Vertical datum transformations ArcGIS Enterprise 11.4

Each datum transformation used by the ArcGIS REST API has an ID (WKID), a name, and well-known textual definitions (WKT1 and WKT2). The following table provides equation-based vertical datum transformations.

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------|----------------------------------------------|-----------------------------------------------------|
| 4441 | NZVD2009_To_One_Tree_Point_1 | VERTTRAN["NZVD2009_To_One_Tree_Point_ | COORDINATEOPERATION["NZVD2009_To_One_Tr |
| | | 1",VERTCS["NZVD2009_height",VDATUM["Ne | ee_Point_1",SOURCECRS[VERTCRS["NZVD2009_he |
| | | w_Zealand_Vertical_Datum_2009"],PARAME | ight",VDATUM["New_Zealand_Vertical_Datum_20 |
| | | TER["Vertical_Shift",0.0],PARAMETER["Directi | 09"],CS[vertical,1],AXIS["Gravity-related height |
| | | on",1.0],UNIT["Meter",1.0]],VERTCS["One_Tr | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ee_Point",VDATUM["One_Tree_Point"],PARA | VERTCRS["One_Tree_Point",VDATUM["One_Tree_ |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | Point"],CS[vertical,1],AXIS["Gravity-related height |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | Vertical_Offset"],PARAMETER["Vertical_Offse | rtical_Offset"],PARAMETER["Vertical_Offset",0.06, |
| | | t",0.06],OPERATIONACCURACY[0.03]] | LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY |
| | | | [0.03]] |
| 4442 | NZVD2009_To_Auckland_1 | VERTTRAN["NZVD2009_To_Auckland_1",VER | COORDINATEOPERATION["NZVD2009_To_Aucklan |
| | | TCS["NZVD2009_height",VDATUM["New_Zea | d_1",SOURCECRS[VERTCRS["NZVD2009_height",V |
| | | land_Vertical_Datum_2009"],PARAMETER["V | DATUM["New_Zealand_Vertical_Datum_2009"],C |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | S[vertical,1],AXIS["Gravity-related height |
| | | 0],UNIT["Meter",1.0]],VERTCS["Auckland",VD | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ATUM["Auckland"],PARAMETER["Vertical_Shi | |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | tical,1],AXIS["Gravity-related height |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset"],P | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | ARAMETER["Vertical_Offset",0.34],OPERATIO | rtical_Offset"],PARAMETER["Vertical_Offset",0.34, |
| | | NACCURACY[0.05]] | LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY |
| | | | [0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4443 | NZVD2009_To_Moturiki_1 | VERTTRAN["NZVD2009_To_Moturiki_1",VERT CS["NZVD2009_height",VDATUM["New_Zeal and_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Moturiki",VD ATUM["Moturiki"],PARAMETER["Vertical_Shif t",0.0],PARAMETER["Direction",1.0],UNIT["M eter",1.0]],VTMETHOD["Vertical_Offset"],PAR AMETER["Vertical_Offset",0.24],OPERATIONA CCURACY[0.06]] | COORDINATEOPERATION["NZVD2009_To_Moturik i_1",SOURCECRS[VERTCRS["NZVD2009_height",VD ATUM["New_Zealand_Vertical_Datum_2009"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Moturiki",VDATUM["Moturiki"],CS[verti cal,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.24, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.06]] |
| 4444 | NZVD2009_To_Nelson_1 | VERTTRAN["NZVD2009_To_Nelson_1",VERTC S["NZVD2009_height",VDATUM["New_Zeala nd_Vertical_Datum_2009"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Nelson",VDATU M["Nelson"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset"],OPERATIONACCU RACY[0.07]] | COORDINATEOPERATION["NZVD2009_To_Nelson_ 1",SOURCECRS[VERTCRS["NZVD2009_height",VDA TUM["New_Zealand_Vertical_Datum_2009"],CS[v ertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Nelson",VDATUM["Nelson"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.29, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.07]] |
| 4445 | NZVD2009_To_Gisborne_1 | VERTTRAN["NZVD2009_To_Gisborne_1",VER TCS["NZVD2009_height",VDATUM["New_Zea land_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Gisborne",VD ATUM["Gisborne"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset",0.34],OPERATIO NACCURACY[0.02]] | COORDINATEOPERATION["NZVD2009_To_Gisborn e_1",SOURCECRS[VERTCRS["NZVD2009_height",V DATUM["New_Zealand_Vertical_Datum_2009"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Gisborne",VDATUM["Gisborne"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.34, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4446 | NZVD2009_To_Napier_1 | VERTTRAN["NZVD2009_To_Napier_1",VERTC S["NZVD2009_height",VDATUM["New_Zeala nd_Vertical_Datum_2009"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Napier",VDATU M["Napier"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset",0.2],OPERATIONACCUR ACY[0.05]] | COORDINATEOPERATION["NZVD2009_To_Napier_ 1",SOURCECRS[VERTCRS["NZVD2009_height",VDA TUM["New_Zealand_Vertical_Datum_2009"],CS[v ertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Napier",VDATUM["Napier"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.2,L ENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.05]] |
| 4447 | NZVD2009_To_Taranaki_1 | VERTTRAN["NZVD2009_To_Taranaki_1",VERT CS["NZVD2009_height",VDATUM["New_Zeal and_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Taranaki",VD ATUM["Taranaki"],PARAMETER["Vertical_Shif t",0.0],PARAMETER["Direction",1.0],UNIT["M eter",1.0]],VTMETHOD["Vertical_Offset"],PAR AMETER["Vertical_Offset",0.32],OPERATIONA CCURACY[0.05]] | COORDINATEOPERATION["NZVD2009_To_Taranak i_1",SOURCECRS[VERTCRS["NZVD2009_height",VD ATUM["New_Zealand_Vertical_Datum_2009"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Taranaki",VDATUM["Taranaki"],CS[vertical,1],AXIS["Gravity-related height |
| 4448 | NZVD2009_To_Wellington_1 | VERTTRAN["NZVD2009_To_Wellington_1",VE RTCS["NZVD2009_height",VDATUM["New_Ze aland_Vertical_Datum_2009"],PARAMETER[" Vertical_Shift",0.0],PARAMETER["Direction",1 .0],UNIT["Meter",1.0]],VERTCS["Wellington", VDATUM["Wellington"],PARAMETER["Vertica I_Shift",0.0],PARAMETER["Direction",1.0],UNI T["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.44],OPERA TIONACCURACY[0.04]] | COORDINATEOPERATION["NZVD2009_To_Welling ton_1",SOURCECRS[VERTCRS["NZVD2009_height", VDATUM["New_Zealand_Vertical_Datum_2009"], CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Wellington",VDATUM["Wellington"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.44, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.04]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4449 | NZVD2009_To_Lyttelton_1 | VERTTRAN["NZVD2009_To_Lyttelton_1",VER TCS["NZVD2009_height",VDATUM["New_Zea land_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VERTCS["Lyttelton",VD ATUM["Lyttelton"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VTMETHOD["Vertical_Offset"],P ARAMETER["Vertical_Offset",0.47],OPERATIO NACCURACY[0.09]] | COORDINATEOPERATION["NZVD2009_To_Lyttelto n_1",SOURCECRS[VERTCRS["NZVD2009_height",V DATUM["New_Zealand_Vertical_Datum_2009"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Lyttelton",VDATUM["Lyttelton"],CS[vert ical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.47, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.09]] |
| 4450 | NZVD2009_To_Dunedin_1 | VERTTRAN["NZVD2009_To_Dunedin_1",VERT CS["NZVD2009_height",VDATUM["New_Zeal and_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Dunedin",VD ATUM["Dunedin"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PAR AMETER["Vertical_Offset",0.49],OPERATIONA CCURACY[0.07]] | COORDINATEOPERATION["NZVD2009_To_Dunedi n_1",SOURCECRS[VERTCRS["NZVD2009_height",V DATUM["New_Zealand_Vertical_Datum_2009"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| 4451 | NZVD2009_To_Bluff_1 | VERTTRAN["NZVD2009_To_Bluff_1",VERTCS["NZVD2009_height",VDATUM["New_Zealand _Vertical_Datum_2009"],PARAMETER["Vertic al_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VERTCS["Bluff",VDATUM[" Bluff"],PARAMETER["Vertical_Shift",0.0],PAR AMETER["Direction",1.0],UNIT["Meter",1.0]], VTMETHOD["Vertical_Offset"],PARAMETER[" Vertical_Offset",0.36],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["NZVD2009_To_Bluff_1" ,SOURCECRS[VERTCRS["NZVD2009_height",VDAT UM["New_Zealand_Vertical_Datum_2009"],CS[ve rtical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Bluff",VDATUM["Bluff"],CS[vertical,1],A XIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.36, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 4452 | NZVD2009_To_Stewart_Island_1 | VERTTRAN["NZVD2009_To_Stewart_Island_1 | COORDINATEOPERATION["NZVD2009_To_Stewart |
| | | ",VERTCS["NZVD2009_height",VDATUM["Ne | _lsland_1",SOURCECRS[VERTCRS["NZVD2009_heig |
| | | w_Zealand_Vertical_Datum_2009"],PARAME | ht",VDATUM["New_Zealand_Vertical_Datum_200 |
| | | TER["Vertical_Shift",0.0],PARAMETER["Directi | 9"],CS[vertical,1],AXIS["Gravity-related height |
| | | on",1.0],UNIT["Meter",1.0]],VERTCS["Stewart | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | _Island",VDATUM["Stewart_Island"],PARAME | VERTCRS["Stewart_Island", VDATUM["Stewart_Isla |
| | | TER["Vertical_Shift",0.0],PARAMETER["Directi | nd"],CS[vertical,1],AXIS["Gravity-related height |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["Ver | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | tical_Offset"],PARAMETER["Vertical_Offset", | rtical_Offset"],PARAMETER["Vertical_Offset",0.39, |
| | | 0.39],OPERATIONACCURACY[0.15]] | LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY |
| | | | [0.15]] |
| 4453 | NZVD2009_To_Dunedin_Bluff_1960_1 | VERTTRAN["NZVD2009_To_Dunedin_Bluff_1 | COORDINATEOPERATION["NZVD2009_To_Dunedi |
| | | 960_1",VERTCS["NZVD2009_height",VDATU | n_Bluff_1960_1",SOURCECRS[VERTCRS["NZVD200 |
| | | M["New_Zealand_Vertical_Datum_2009"],PA | 9_height",VDATUM["New_Zealand_Vertical_Datu |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | m_2009"],CS[vertical,1],AXIS["Gravity-related |
| | | Direction",1.0],UNIT["Meter",1.0]],VERTCS["D | height |
| | | unedin_Bluff_1960_height",VDATUM["Duned | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | in_Bluff_1960"],PARAMETER["Vertical_Shift", | VERTCRS["Dunedin_Bluff_1960_height",VDATUM[|
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | "Dunedin_Bluff_1960"],CS[vertical,1],AXIS["Gravit |
| | | er",1.0]],VTMETHOD["Vertical_Offset"],PARA | y-related height |
| | | METER["Vertical_Offset",0.38],OPERATIONAC | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | CURACY[0.04]] | rtical_Offset"],PARAMETER["Vertical_Offset",0.38, |
| | | | LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY |
| | | | [0.04]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|---------------------------------------------|--------------------------------------------------|
| 4651 | Newlyn_(height)_to_EVRF2000_(heigh | VERTTRAN["Newlyn_(height)_to_EVRF2000_(| COORDINATEOPERATION["Newlyn_(height)_to_E |
| | t)_(1) | height)_(1)",GEOGCS["GCS_ETRS_1989",DAT | VRF2000_(height)_(1)",SOURCECRS[VERTCRS["Ne |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | wlyn",VDATUM["Ordnance_Datum_Newlyn"],CS[v |
| | | 378137.0,298.257222101]],PRIMEM["Green | ertical,1],AXIS["Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Newlyn",VDATUM["Ordnance_ | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | Datum_Newlyn"],PARAMETER["Vertical_Shift | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | Gravity-related height |
| | | ter",1.0]],VERTCS["EVRS_2000",VDATUM["Eu | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ropean_Vertical_Reference_Frame_2000"],P | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | "Direction",1.0],UNIT["Meter",1.0]],VTMETH | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | OD["Vertical_Offset_and_Slope"],PARAMETE | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | R["Vertical_Offset",0.07],PARAMETER["Longit | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ude_Of_Evaluation",- | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 2.25],PARAMETER["Latitude_Of_Evaluation", | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 54.58333333333334],PARAMETER["Inclinatio | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | n_North",0.044],PARAMETER["Inclination_Ea | _Slope"],PARAMETER["Vertical_Offset",0.07,LENG |
| | | st",0.0],OPERATIONACCURACY[0.1]] | THUNIT["Meter",1.0]],PARAMETER["Longitude_Of |
| | | | _Evaluation",- |
| | | | 2.25,ANGLEUNIT["Degree",0.0174532925199433]] |
| | | | ,PARAMETER["Latitude_Of_Evaluation",54.583333 |
| | | | 33333334,ANGLEUNIT["Degree",0.017453292519 |
| | | | 9433]],PARAMETER["Inclination_North",0.044,AN |
| | | | GLEUNIT["Arcsecond",0.00000484813681109536]] |
| | | | ,PARAMETER["Inclination_East",0.0,ANGLEUNIT[" |
| | | | Arcsecond",0.00000484813681109536]],OPERATI |
| | | | ONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 5196 | HVRS_1971_Height_To_EVRS_2000_H | VERTTRAN["HVRS_1971_Height_To_EVRS_20 | COORDINATEOPERATION["HVRS_1971_Height_To |
| | eight_1 | 00_Height_1",GEOGCS["GCS_ETRS_1989",DA | _EVRS_2000_Height_1",SOURCECRS[VERTCRS["HV |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | RS_1971",VDATUM["Croatian_Vertical_Reference |
| | | 6378137.0,298.257222101]],PRIMEM["Green | _System_1971"],CS[vertical,1],AXIS["Gravity- |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | related height |
| | | 33]],VERTCS["HVRS_1971",VDATUM["Croatia | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | n_Vertical_Reference_System_1971"],PARA | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | S_2000",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2000"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",- | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0.343],PARAMETER["Longitude_Of_Evaluatio | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | n",16.366666666666667],PARAMETER["Latitu | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | de_Of_Evaluation",45.35],PARAMETER["Incli | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | nation_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.007],PARAMETER["Inclination_East",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.016],OPERATIONACCURACY[0.1]] | 0.343,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | | ngitude_Of_Evaluation",16.36666666666667,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",45.35,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Incl |
| | | | ination_North",- |
| | | | 0.007,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",- |
| | | | 0.016,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 5197 | HVRS_1971_Height_To_EVRF_2007_H | VERTTRAN["HVRS_1971_Height_To_EVRF_20 | COORDINATEOPERATION["HVRS_1971_Height_To |
| | eight_1 | 07_Height_1",GEOGCS["GCS_ETRS_1989",DA | _EVRF_2007_Height_1",SOURCECRS[VERTCRS["HV |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | RS_1971",VDATUM["Croatian_Vertical_Reference |
| | | 6378137.0,298.257222101]],PRIMEM["Green | _System_1971"],CS[vertical,1],AXIS["Gravity- |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | related height |
| | | 33]],VERTCS["HVRS_1971",VDATUM["Croatia | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | n_Vertical_Reference_System_1971"],PARA | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | F_2007",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2007"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",- | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0.313],PARAMETER["Longitude_Of_Evaluatio | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | n",16.36666666666667],PARAMETER["Latitu | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | de_Of_Evaluation",45.35],PARAMETER["Incli | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | nation_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.016],PARAMETER["Inclination_East",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.018],OPERATIONACCURACY[0.1]] | 0.313,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | | ngitude_Of_Evaluation",16.366666666666667,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",45.35,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Incl |
| | | | ination_North",- |
| | | | 0.016,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",- |
| | | | 0.018,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 5198 | Oostende_Height_To_EVRS_2000_Hei | VERTTRAN["Oostende_Height_To_EVRS_200 | COORDINATEOPERATION["Oostende_Height_To_E |
| | ght_1 | 0_Height_1",GEOGCS["GCS_ETRS_1989",DAT | VRS_2000_Height_1",SOURCECRS[VERTCRS["Oost |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | ende",VDATUM["Oostende"],CS[vertical,1],AXIS[" |
| | | 378137.0,298.257222101]],PRIMEM["Green | Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Oostende",VDATUM["Oostend | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | e"],PARAMETER["Vertical_Shift",0.0],PARAM | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | Gravity-related height |
| | | TCS["EVRS_2000",VDATUM["European_Verti | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | cal_Reference_Frame_2000"],PARAMETER[" | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_and_Slope"],PARAMETER["Vertical_Of | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | fset",- | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 2.311],PARAMETER["Longitude_Of_Evaluatio | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | n",4.766666666666667],PARAMETER["Latitu | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | de_Of_Evaluation",50.71666666666667],PAR | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | AMETER["Inclination_North",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.016],PARAMETER["Inclination_East",0.0],O | 2.311,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | PERATIONACCURACY[0.1]] | ngitude_Of_Evaluation",4.7666666666666667,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",50.7166666666666 |
| | | | 7,ANGLEUNIT["Degree",0.0174532925199433]],PA |
| | | | RAMETER["Inclination_North",- |
| | | | 0.016,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.0,AN |
| | | | GLEUNIT["Arcsecond",0.00000484813681109536]] |
| | | | ,OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 5199 | Oostende_Height_To_EVRF_2007_Hei | VERTTRAN["Oostende_Height_To_EVRF_200 | COORDINATEOPERATION["Oostende_Height_To_E |
| | ght_1 | 7_Height_1",GEOGCS["GCS_ETRS_1989",DAT | VRF_2007_Height_1",SOURCECRS[VERTCRS["Oost |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | ende",VDATUM["Oostende"],CS[vertical,1],AXIS[" |
| | | 378137.0,298.257222101]],PRIMEM["Green | Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Oostende",VDATUM["Oostend | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | e"],PARAMETER["Vertical_Shift",0.0],PARAM | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | Gravity-related height |
| | | TCS["EVRF_2007",VDATUM["European_Verti | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | cal_Reference_Frame_2007"],PARAMETER[" | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]],PRIMEM[" |
| | | Offset_and_Slope"],PARAMETER["Vertical_Of | |
| | | fset",- | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 2.317],PARAMETER["Longitude_Of_Evaluatio | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | n",4.766666666666667],PARAMETER["Latitu | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | de_Of_Evaluation",50.71666666666667],PAR | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | AMETER["Inclination_North",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.031],PARAMETER["Inclination_East",0.0],O | 2.317,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | PERATIONACCURACY[0.1]] | ngitude_Of_Evaluation",4.766666666666667,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",50.7166666666666 |
| | | | 7,ANGLEUNIT["Degree",0.0174532925199433]],PA |
| | | | RAMETER["Inclination_North",- |
| | | | 0.031,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.0,AN |
| | | | GLEUNIT["Arcsecond",0.00000484813681109536]] |
| | | | ,OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|---------------------------------------------|--------------------------------------------------|
| 5200 | Baltic_1982_Height_To_EVRF_2007_H | VERTTRAN["Baltic_1982_Height_To_EVRF_20 | COORDINATEOPERATION["Baltic_1982_Height_To |
| | eight_1 | 07_Height_1",GEOGCS["GCS_ETRS_1989",DA | _EVRF_2007_Height_1",SOURCECRS[VERTCRS["Bal |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | tic_1982",VDATUM["Baltic_1982"],CS[vertical,1],A |
| | | 6378137.0,298.257222101]],PRIMEM["Green | XIS["Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Baltic_1982",VDATUM["Baltic_ | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | 1982"],PARAMETER["Vertical_Shift",0.0],PAR | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | Gravity-related height |
| | | VERTCS["EVRF_2007",VDATUM["European_V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ertical_Reference_Frame_2007"],PARAMETE | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["Verti | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | cal_Offset_and_Slope"],PARAMETER["Vertica | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | I_Offset",0.228],PARAMETER["Longitude_Of_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Evaluation",25.37666666666667],PARAMETE | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | R["Latitude_Of_Evaluation",42.625],PARAME | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | TER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.009],PARAMETER["Inclination_East",- | _Slope"],PARAMETER["Vertical_Offset",0.228,LEN |
| | | 0.003],OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",25.37666666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",42.625,ANGLEUNIT["Degree" |
| | | | ,0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",- |
| | | | 0.009,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",- |
| | | | 0.003,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 5201 | Baltic_Height_To_EVRS_2000_Height_ | VERTTRAN["Baltic_Height_To_EVRS_2000_H | COORDINATEOPERATION["Baltic_Height_To_EVRS |
| | 4 | eight_4",GEOGCS["GCS_ETRS_1989",DATUM[| _2000_Height_4",SOURCECRS[VERTCRS["Baltic",V |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | DATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Baltic",VDATUM["Baltic_Sea"],PARA | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | S_2000",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2000"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.11 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 6],PARAMETER["Longitude_Of_Evaluation",1 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 5.25],PARAMETER["Latitude_Of_Evaluation", | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 49.91666666666666],PARAMETER["Inclinatio | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | n_North",0.036],PARAMETER["Inclination_Ea | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | st",0.0],OPERATIONACCURACY[0.1]] | _Slope"],PARAMETER["Vertical_Offset",0.116,LEN |
| | | | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",15.25,ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]],PARAMETER["Latitude_Of_Eval |
| | | | uation",49.916666666666666,ANGLEUNIT["Degree |
| | | | ",0.0174532925199433]],PARAMETER["Inclination |
| | | | _North",0.036,ANGLEUNIT["Arcsecond",0.000004 |
| | | | 84813681109536]],PARAMETER["Inclination_East" |
| | | | ,0.0,ANGLEUNIT["Arcsecond",0.000004848136811 |
| | | | 09536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 5202 | Baltic_Height_To_EVRF_2007_Height_ | VERTTRAN["Baltic_Height_To_EVRF_2007_H | COORDINATEOPERATION["Baltic_Height_To_EVRF |
| | 1 | eight_1",GEOGCS["GCS_ETRS_1989",DATUM[| _2007_Height_1",SOURCECRS[VERTCRS["Baltic",V |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | DATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Baltic",VDATUM["Baltic_Sea"],PARA | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | F_2007",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2007"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.13 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | |],PARAMETER["Longitude_Of_Evaluation",15. | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 25],PARAMETER["Latitude_Of_Evaluation",49 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | .9166666666666],PARAMETER["Inclination_ | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | North",0.026],PARAMETER["Inclination_East" | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | ,0.0],OPERATIONACCURACY[0.1]] | _Slope"],PARAMETER["Vertical_Offset",0.13,LENG |
| | | | THUNIT["Meter",1.0]],PARAMETER["Longitude_Of |
| | | | _Evaluation",15.25,ANGLEUNIT["Degree",0.01745 |
| | | | 32925199433]],PARAMETER["Latitude_Of_Evaluat |
| | | | ion",49.9166666666666666,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",0.026,ANGLEUNIT["Arcsecond",0.000004848 |
| | | | 13681109536]],PARAMETER["Inclination_East",0.0 |
| | | | ,ANGLEUNIT["Arcsecond",0.000004848136811095 |
| | | | 36]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 5203 | Baltic_Height_To_EVRF_2007_Height_ | VERTTRAN["Baltic_Height_To_EVRF_2007_H | COORDINATEOPERATION["Baltic_Height_To_EVRF |
| | 2 | eight_2",GEOGCS["GCS_ETRS_1989",DATUM[| _2007_Height_2",SOURCECRS[VERTCRS["Baltic",V |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | DATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Baltic",VDATUM["Baltic_Sea"],PARA | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | F_2007",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2007"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.19 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 5],PARAMETER["Longitude_Of_Evaluation",2 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 5.86666666666667],PARAMETER["Latitude_ | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Of_Evaluation",58.7],PARAMETER["Inclinatio | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | n_North",0.009],PARAMETER["Inclination_Ea | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | st",-0.013],OPERATIONACCURACY[0.1]] | _Slope"],PARAMETER["Vertical_Offset",0.195,LEN |
| | | | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",25.86666666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",58.7,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",0.009,ANGLEUNIT["Arcsecond",0.000004848 |
| | | | 13681109536]],PARAMETER["Inclination_East",- |
| | | | 0.013,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 5204 | Baltic_Height_To_EVRF_2007_Height_ | VERTTRAN["Baltic_Height_To_EVRF_2007_H | COORDINATEOPERATION["Baltic_Height_To_EVRF |
| | 3 | eight_3",GEOGCS["GCS_ETRS_1989",DATUM[| _2007_Height_3",SOURCECRS[VERTCRS["Baltic",V |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | DATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Baltic",VDATUM["Baltic_Sea"],PARA | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | F_2007",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2007"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.12 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 1],PARAMETER["Longitude_Of_Evaluation",2 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 4.01666666666667],PARAMETER["Latitude_ | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Of_Evaluation",55.3],PARAMETER["Inclinatio | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | n_North",0.053],PARAMETER["Inclination_Ea | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | st",0.0],OPERATIONACCURACY[0.1]] | _Slope"],PARAMETER["Vertical_Offset",0.121,LEN |
| | | | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",24.0166666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",55.3,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",0.053,ANGLEUNIT["Arcsecond",0.000004848 |
| | | | 13681109536]],PARAMETER["Inclination_East",0.0 |
| | | | ,ANGLEUNIT["Arcsecond",0.000004848136811095 |
| | | | 36]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|----------------------------------------------|--------------------------------------------------|
| 5205 | Constanta_Height_To_EVRS_2000_Hei | VERTTRAN["Constanta_Height_To_EVRS_200 | COORDINATEOPERATION["Constanta_Height_To_ |
| | ght_1 | 0_Height_1",GEOGCS["GCS_ETRS_1989",DAT | EVRS_2000_Height_1",SOURCECRS[VERTCRS["Con |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | stanta",VDATUM["Constanta"],CS[vertical,1],AXIS[|
| | | 378137.0,298.257222101]],PRIMEM["Green | "Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Constanta",VDATUM["Constant | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | a"],PARAMETER["Vertical_Shift",0.0],PARAM | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | Gravity-related height |
| | | TCS["EVRS_2000",VDATUM["European_Verti | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | cal_Reference_Frame_2000"],PARAMETER[" | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_and_Slope"],PARAMETER["Vertical_Of | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | fset",0.028],PARAMETER["Longitude_Of_Eval | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | uation",24.81666666666667],PARAMETER["L | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | atitude_Of_Evaluation",46.01666666666667] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ,PARAMETER["Inclination_North",0.002],PAR | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | AMETER["Inclination_East",0.002],OPERATIO | _Slope"],PARAMETER["Vertical_Offset",0.028,LEN |
| | | NACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",24.816666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",46.01666666666667,ANGLE |
| | | | UNIT["Degree",0.0174532925199433]],PARAMETE |
| | | | R["Inclination_North",0.002,ANGLEUNIT["Arcseco |
| | | | nd",0.00000484813681109536]],PARAMETER["Incl |
| | | | ination_East",0.002,ANGLEUNIT["Arcsecond",0.00 |
| | | | 000484813681109536]],OPERATIONACCURACY[0. |
| | | | [1]] |

| WKID | Name | WKT1 | WKT2 |
|-------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5206 | Name Constanta_Height_To_EVRF_2007_Height_1 | VERTTRAN["Constanta_Height_To_EVRF_200 7_Height_1",GEOGCS["GCS_ETRS_1989",DAT UM["D_ETRS_1989",SPHEROID["GRS_1980",6 378137.0,298.257222101]],PRIMEM["Green wich",0.0],UNIT["Degree",0.01745329251994 33]],VERTCS["Constanta",VDATUM["Constant a"],PARAMETER["Vertical_Shift",0.0],PARAM ETER["Direction",1.0],UNIT["Meter",1.0]],VER TCS["EVRF_2007",VDATUM["European_Verti cal_Reference_Frame_2007"],PARAMETER[" Vertical_Shift",0.0],PARAMETER["Direction",1 .0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ Offset_and_Slope"],PARAMETER["Vertical_Of fset",0.062],PARAMETER["Longitude_Of_Eval uation",24.81666666666667],PARAMETER["L atitude_Of_Evaluation",46.01666666666667] ,PARAMETER["Inclination_North",- 0.005],PARAMETER["Inclination_East",0.008], OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Constanta_Height_To_EVRF_2007_Height_1",SOURCECRS[VERTCRS["Constanta",VDATUM["Constanta"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2007",VDATUM["European_Vertical_Reference_Frame_2007"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|--------------------------------------------|--------------------------------------------------|
| 5207 | LN_1902_Height_To_EVRF_2007_Heig | VERTTRAN["LN_1902_Height_To_EVRF_2007 | COORDINATEOPERATION["LN_1902_Height_To_E |
| | ht_1 | _Height_1",GEOGCS["GCS_ETRS_1989",DATU | VRF_2007_Height_1",SOURCECRS[VERTCRS["LN_1 |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | 902",VDATUM["Landesnivellement_1902"],CS[ver |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | tical,1],AXIS["Gravity-related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["LN_1902",VDATUM["Landesnivell | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | ement_1902"],PARAMETER["Vertical_Shift",0 | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | Gravity-related height |
| | | ",1.0]],VERTCS["EVRF_2007",VDATUM["Euro | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | pean_Vertical_Reference_Frame_2007"],PAR | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | irection",1.0],UNIT["Meter",1.0]],VTMETHOD | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ["Vertical_Offset_and_Slope"],PARAMETER[" | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Vertical_Offset",- | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0.225],PARAMETER["Longitude_Of_Evaluatio | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | n",8.1833333333333334],PARAMETER["Latitu | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | de_Of_Evaluation",46.91666666666666],PAR | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | AMETER["Inclination_North",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.221],PARAMETER["Inclination_East",- | 0.225,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | 0.033],OPERATIONACCURACY[0.1]] | ngitude_Of_Evaluation",8.1833333333333334,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",46.9166666666666 |
| | | | 6,ANGLEUNIT["Degree",0.0174532925199433]],PA |
| | | | RAMETER["Inclination_North",- |
| | | | 0.221,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",- |
| | | | 0.033,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|--------------------------------------------|--------------------------------------------------|
| 5208 | RH2000_Height_To_EVRF_2007_Heig | VERTTRAN["RH2000_Height_To_EVRF_2007_ | COORDINATEOPERATION["RH2000_Height_To_EV |
| | ht_1 | Height_1",GEOGCS["GCS_ETRS_1989",DATU | RF_2007_Height_1",SOURCECRS[VERTCRS["RH200 |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | 0",DYNAMIC[FRAMEEPOCH[2000.0],MODEL["Level |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | ling- |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | based"]],VDATUM["Rikets_Hojdsystem_2000"],CS[|
| | |]],VERTCS["RH2000",VDATUM["Rikets_Hojdsy | vertical,1],AXIS["Gravity-related height |
| | | stem_2000"],PARAMETER["Vertical_Shift",0. | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | ",1.0]],VERTCS["EVRF_2007",VDATUM["Euro | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | pean_Vertical_Reference_Frame_2007"],PAR | Gravity-related height |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | irection",1.0],UNIT["Meter",1.0]],VTMETHOD | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ["Vertical_Offset_and_Slope"],PARAMETER[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Vertical_Offset",- | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0.008],PARAMETER["Longitude_Of_Evaluatio | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | n",15.8],PARAMETER["Latitude_Of_Evaluatio | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | n",61.9],PARAMETER["Inclination_North",- | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 0.0006],PARAMETER["Inclination_East",- | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 0.0003],OPERATIONACCURACY[0.1]] | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | | _Slope"],PARAMETER["Vertical_Offset",- |
| | | | 0.008,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | | ngitude_Of_Evaluation",15.8,ANGLEUNIT["Degree |
| | | | ",0.0174532925199433]],PARAMETER["Latitude_O |
| | | | f_Evaluation",61.9,ANGLEUNIT["Degree",0.017453 |
| | | | 2925199433]],PARAMETER["Inclination_North",- |
| | | | 0.0006,ANGLEUNIT["Arcsecond",0.000004848136 |
| | | | 81109536]],PARAMETER["Inclination_East",- |
| | | | 0.0003,ANGLEUNIT["Arcsecond",0.000004848136 |
| | | | 81109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 5209 | Baltic_Height_To_EVRS_2000_Height_ | VERTTRAN["Baltic_Height_To_EVRS_2000_H | COORDINATEOPERATION["Baltic_Height_To_EVRS |
| | 5 | eight_5",GEOGCS["GCS_ETRS_1989",DATUM[| _2000_Height_5",SOURCECRS[VERTCRS["Baltic",V |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | DATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Baltic",VDATUM["Baltic_Sea"],PARA | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | S_2000",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2000"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.10 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 5],PARAMETER["Longitude_Of_Evaluation",2 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 4.88333333333333],PARAMETER["Latitude_ | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Of_Evaluation",56.9666666666667],PARAM | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ETER["Inclination_North",0.0],PARAMETER["I | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | nclination_East",0.004],OPERATIONACCURAC | _Slope"],PARAMETER["Vertical_Offset",0.105,LEN |
| | | Y[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",24.88333333333333,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",56.96666666666667,ANGLE |
| | | | UNIT["Degree",0.0174532925199433]],PARAMETE |
| | | | R["Inclination_North",0.0,ANGLEUNIT["Arcsecond |
| | | | ",0.00000484813681109536]],PARAMETER["Inclin |
| | | | ation_East",0.004,ANGLEUNIT["Arcsecond",0.0000 |
| | | | 0484813681109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 5210 | Baltic_Height_To_EVRF_2007_Height_ | VERTTRAN["Baltic_Height_To_EVRF_2007_H | COORDINATEOPERATION["Baltic_Height_To_EVRF |
| | 4 | eight_4",GEOGCS["GCS_ETRS_1989",DATUM[| _2007_Height_4",SOURCECRS[VERTCRS["Baltic",V |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | DATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Baltic",VDATUM["Baltic_Sea"],PARA | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | F_2007",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2007"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.15 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 4],PARAMETER["Longitude_Of_Evaluation",2 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 4.8833333333333],PARAMETER["Latitude_ | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Of_Evaluation",56.9666666666667],PARAM | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ETER["Inclination_North",0.016],PARAMETER | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | ["Inclination_East",- | _Slope"],PARAMETER["Vertical_Offset",0.154,LEN |
| | | 0.012],OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",24.88333333333333,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",56.966666666666667,ANGLE |
| | | | UNIT["Degree",0.0174532925199433]],PARAMETE |
| | | | R["Inclination_North",0.016,ANGLEUNIT["Arcseco |
| | | | nd",0.00000484813681109536]],PARAMETER["Incl |
| | | | ination_East",- |
| | | | 0.012,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|--------------------------------------------------|
| 5211 | DHHN92_Height_To_EVRF_2007_Heig | VERTTRAN["DHHN92_Height_To_EVRF_2007 | COORDINATEOPERATION["DHHN92_Height_To_E |
| | ht_1 | _Height_1",GEOGCS["GCS_ETRS_1989",DATU | VRF_2007_Height_1",SOURCECRS[VERTCRS["DHH |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | N92",VDATUM["Deutsches_Haupthoehennetz_19 |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 92"],CS[vertical,1],AXIS["Gravity-related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["DHHN92",VDATUM["Deutsches_H | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | aupthoehennetz_1992"],PARAMETER["Vertic | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | Gravity-related height |
| | | NIT["Meter",1.0]],VERTCS["EVRF_2007",VDA | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | TUM["European_Vertical_Reference_Frame_ | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 2007"],PARAMETER["Vertical_Shift",0.0],PAR | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | VTMETHOD["Vertical_Offset_and_Slope"],PA | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | RAMETER["Vertical_Offset",0.015],PARAMET | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ER["Longitude_Of_Evaluation",10.216666666 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 66667],PARAMETER["Latitude_Of_Evaluation | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ",51.05],PARAMETER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.01],PARAMETER["Inclination_East",0.002], | _Slope"],PARAMETER["Vertical_Offset",0.015,LEN |
| | | OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",10.216666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",51.05,ANGLEUNIT["Degree", |
| | | | 0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",- |
| | | | 0.01,ANGLEUNIT["Arcsecond",0.00000484813681 |
| | | | 109536]],PARAMETER["Inclination_East",0.002,AN |
| | | | GLEUNIT["Arcsecond",0.00000484813681109536]] |
| | | | ,OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|--------------------------------------------------|
| 5212 | DHHN85_Height_To_EVRF_2007_Heig | VERTTRAN["DHHN85_Height_To_EVRF_2007 | COORDINATEOPERATION["DHHN85_Height_To_E |
| | ht_1 | _Height_1",GEOGCS["GCS_ETRS_1989",DATU | VRF_2007_Height_1",SOURCECRS[VERTCRS["DHH |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | N85",VDATUM["Deutsches_Haupthoehennetz_19 |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 85"],CS[vertical,1],AXIS["Gravity-related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["DHHN85",VDATUM["Deutsches_H | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | aupthoehennetz_1985"],PARAMETER["Vertic | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | Gravity-related height |
| | | NIT["Meter",1.0]],VERTCS["EVRF_2007",VDA | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | TUM["European_Vertical_Reference_Frame_ | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 2007"],PARAMETER["Vertical_Shift",0.0],PAR | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | 257222101,LENGTHUNIT["Meter",1.0]],PRIMEM[" |
| | | VTMETHOD["Vertical_Offset_and_Slope"],PA | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | RAMETER["Vertical_Offset",0.017],PARAMET | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ER["Longitude_Of_Evaluation",8.666666666 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 66666],PARAMETER["Latitude_Of_Evaluation | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ",51.05],PARAMETER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.011],PARAMETER["Inclination_East",0.005], | _Slope"],PARAMETER["Vertical_Offset",0.017,LEN |
| | | OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",8.666666666666666,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",51.05,ANGLEUNIT["Degree", |
| | | | 0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",- |
| | | | 0.011,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.005,A |
| | | | NGLEUNIT["Arcsecond",0.0000048481368110953 |
| | | | 6]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|------------------------------------------------------------------------|
| 5213 | Genoa_Height_To_EVRS_2000_Height | VERTTRAN["Genoa_Height_To_EVRS_2000_H | COORDINATEOPERATION["Genoa_Height_To_EVR |
| | _1 | eight_1",GEOGCS["GCS_ETRS_1989",DATUM[| S_2000_Height_1",SOURCECRS[VERTCRS["Genoa_ |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | height",VDATUM["Genoa"],CS[vertical,1],AXIS["Gr |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | avity-related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Genoa_height",VDATUM["Genoa"], | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | Gravity-related height |
| | | ["EVRS_2000",VDATUM["European_Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Reference_Frame_2000"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_and_Slope"],PARAMETER["Vertical_Offset | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ",- | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0.309],PARAMETER["Longitude_Of_Evaluatio | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | n",12.966666666666667],PARAMETER["Latitu | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | de_Of_Evaluation",42.58333333333333334],PAR | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | AMETER["Inclination_North",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.03],PARAMETER["Inclination_East",0.0],OP | 0.309,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | ERATIONACCURACY[0.1]] | ngitude_Of_Evaluation",12.96666666666667,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",42.58333333333333333333333333333333333333 |
| | | | 4,ANGLEUNIT["Degree",0.0174532925199433]],PA |
| | | | RAMETER["Inclination_North",- |
| | | | 0.03,ANGLEUNIT["Arcsecond",0.00000484813681 |
| | | | 109536]],PARAMETER["Inclination_East",0.0,ANGL |
| | | | EUNIT["Arcsecond",0.00000484813681109536]],O |
| | | | PERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|------------------------------------------------------------------------|
| 5215 | Genoa_Height_To_EVRF_2007_Height | VERTTRAN["Genoa_Height_To_EVRF_2007_H | COORDINATEOPERATION["Genoa_Height_To_EVR |
| | _1 | eight_1",GEOGCS["GCS_ETRS_1989",DATUM[| F_2007_Height_1",SOURCECRS[VERTCRS["Genoa_ |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | height",VDATUM["Genoa"],CS[vertical,1],AXIS["Gr |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | avity-related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Genoa_height",VDATUM["Genoa"], | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | Gravity-related height |
| | | ["EVRF_2007",VDATUM["European_Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Reference_Frame_2007"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_and_Slope"],PARAMETER["Vertical_Offset | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ",- | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0.259],PARAMETER["Longitude_Of_Evaluatio | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | n",12.966666666666667],PARAMETER["Latitu | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | de_Of_Evaluation",42.58333333333333334],PAR | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | AMETER["Inclination_North",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.036],PARAMETER["Inclination_East",0.0],O | 0.259,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | PERATIONACCURACY[0.1]] | ngitude_Of_Evaluation",12.96666666666667,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",42.58333333333333333333333333333333333333 |
| | | | 4,ANGLEUNIT["Degree",0.0174532925199433]],PA |
| | | | RAMETER["Inclination_North",- |
| | | | 0.036,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.0,AN |
| | | | GLEUNIT["Arcsecond",0.00000484813681109536]] |
| | | | ,OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 5216 | Genoa_Height_To_EVRS_2000_Height | VERTTRAN["Genoa_Height_To_EVRS_2000_H | COORDINATEOPERATION["Genoa_Height_To_EVR |
| | _2 | eight_2",GEOGCS["GCS_ETRS_1989",DATUM[| S_2000_Height_2",SOURCECRS[VERTCRS["Genoa_ |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | height",VDATUM["Genoa"],CS[vertical,1],AXIS["Gr |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | avity-related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Genoa_height",VDATUM["Genoa"], | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | Gravity-related height |
| | | ["EVRS_2000",VDATUM["European_Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Reference_Frame_2000"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_and_Slope"],PARAMETER["Vertical_Offset | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ",- | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0.402],PARAMETER["Longitude_Of_Evaluatio | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | n",14.3],PARAMETER["Latitude_Of_Evaluatio | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | n",37.5],PARAMETER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.079],PARAMETER["Inclination_East",0.0],O | _Slope"],PARAMETER["Vertical_Offset",- |
| | | PERATIONACCURACY[0.1]] | 0.402,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | | ngitude_Of_Evaluation",14.3,ANGLEUNIT["Degree |
| | | | ",0.0174532925199433]],PARAMETER["Latitude_O |
| | | | f_Evaluation",37.5,ANGLEUNIT["Degree",0.017453 |
| | | | 2925199433]],PARAMETER["Inclination_North",- |
| | | | 0.079,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.0,AN |
| | | | GLEUNIT["Arcsecond",0.00000484813681109536]] |
| | | | ,OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5217 | Genoa_Height_To_EVRF_2007_Height _2 | VERTTRAN["Genoa_Height_To_EVRF_2007_H eight_2",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378 137.0,298.257222101]],PRIMEM["Greenwich ",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["Genoa_height",VDATUM["Genoa"],PARAMETER["Vertical_Shift",0.0],PARAMETE R["Direction",1.0],UNIT["Meter",1.0]],VERTCS ["EVRF_2007",VDATUM["European_Vertical_Reference_Frame_2007"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offs et_and_Slope"],PARAMETER["Vertical_Offset",-0.333],PARAMETER["Longitude_Of_Evaluation",14.3],PARAMETER["Latitude_Of_Evaluation",37.5],PARAMETER["Inclination_North",-0.051],PARAMETER["Inclination_East",0.0],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Genoa_Height_To_EVR F_2007_Height_2",SOURCECRS[VERTCRS["Genoa_height",VDATUM["Genoa"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2007",VDATUM["European_Vertical_Reference_Frame_2007"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude(lat)",north,ORDER[1]],AXIS["Longitude(lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["Vertical_Offset_and_Slope"],PARAMETER["Vertical_Offset",-0.333,LENGTHUNIT["Meter",1.0]],PARAMETER["Longitude_Of_Evaluation",14.3,ANGLEUNIT["Degree",0.0174532925199433]],PARAMETER["Latitude_Of_Evaluation",14.3,ANGLEUNIT["Degree",0.0174532925199433]],PARAMETER["Latitude_Of_Evaluation",37.5,ANGLEUNIT["Degree",0.0174532925199433]],PARAMETER["Inclination_North",-0.051,ANGLEUNIT["Arcsecond",0.00000484813681109536]],PARAMETER["Inclination_East",0.0,ANGLEUNIT["Arcsecond",0.00000484813681109536]],OPERATIONACCURACY[0.1]] |
| 5400 | Baltic_To_Caspian_1 | VERTTRAN["Baltic_To_Caspian_1",VERTCS["B altic",VDATUM["Baltic_Sea"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VERTCS["Caspian",VDA TUM["Caspian_Sea"],PARAMETER["Vertical_S hift",0.0],PARAMETER["Direction",-1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-28.0],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_To_Caspian_1",S OURCECRS[VERTCRS["Baltic",VDATUM["Baltic_Sea "],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Caspian",VDATUM["Caspian_Sea"],CS[v ertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",- 28.0,LENGTHUNIT["Meter",1.0]],OPERATIONACCU RACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5402 | Baltic_To_AIOC95_Depth_1 | VERTTRAN["Baltic_To_AIOC95_Depth_1",VER TCS["Baltic",VDATUM["Baltic_Sea"],PARAME TER["Vertical_Shift",0.0],PARAMETER["Directi on",1.0],UNIT["Meter",1.0]],VERTCS["AIOC95 _Depth",VDATUM["AIOC_1995"],PARAMETE R["Vertical_Shift",0.0],PARAMETER["Directio n",- 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical _Offset"],PARAMETER["Vertical_Offset",- 26.3],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_To_AlOC95_Dep th_1",SOURCECRS[VERTCRS["Baltic",VDATUM["Bal tic_Sea"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["AlOC95_Depth",VDATUM["AlOC_1995"],CS[vertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-26.3,LENGTHUNIT["Meter",1.0]],OPERATIONACCU RACY[0.0]] |
| 5403 | AIOC95_Depth_To_Caspian_1 | VERTTRAN["AIOC95_Depth_To_Caspian_1",V ERTCS["AIOC95_Depth",VDATUM["AIOC_199 5"],PARAMETER["Vertical_Shift",0.0],PARAM ETER["Direction",- 1.0],UNIT["Meter",1.0]],VERTCS["Caspian",VD ATUM["Caspian_Sea"],PARAMETER["Vertical _Shift",0.0],PARAMETER["Direction",- 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical _Offset"],PARAMETER["Vertical_Offset",- 1.7],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["AIOC95_Depth_To_Cas pian_1",SOURCECRS[VERTCRS["AIOC95_Depth",V DATUM["AIOC_1995"],CS[vertical,1],AXIS["Gravity -related height (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR S[VERTCRS["Caspian",VDATUM["Caspian_Sea"],CS [vertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",- 1.7,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR ACY[0.0]] |
| 5404 | Baltic_To_Black_Sea_1 | VERTTRAN["Baltic_To_Black_Sea_1",VERTCS["Baltic",VDATUM["Baltic_Sea"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction", 1.0],UNIT["Meter",1.0]],VERTCS["Black_Sea", VDATUM["Black_Sea"],PARAMETER["Vertical _Shift",0.0],PARAMETER["Direction",1.0],UNI T["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.4],OPERATI ONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_To_Black_Sea_1 ",SOURCECRS[VERTCRS["Baltic",VDATUM["Baltic_ Sea"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Black_Sea",VDATUM["Black_Sea"],CS[v ertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.4,L ENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5405 | Hong_Kong_Principal_Height_To_Hon g_Kong_Chart_Depth_1 | VERTTRAN["Hong_Kong_Principal_Height_To _Hong_Kong_Chart_Depth_1",VERTCS["Hong _Kong_Principal_Datum",VDATUM["Hong_Ko ng_Principal_Datum"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Hong_Kong_Chart_Datum",VDATUM["Hong_Kong_Chart_Datum"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",-1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.146],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Hong_Kong_Principal_ Height_To_Hong_Kong_Chart_Depth_1",SOURCEC RS[VERTCRS["Hong_Kong_Principal_Datum",VDAT UM["Hong_Kong_Principal_Datum"],CS[vertical,1] ,AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Hong_Kong_Chart_Datum",VDATUM[" Hong_Kong_Chart_Datum"],CS[vertical,1],AXIS["G ravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",- 0.146,LENGTHUNIT["Meter",1.0]],OPERATIONACC URACY[0.0]] |
| 5406 | Belfast_To_Malin_Head_1 | VERTTRAN["Belfast_To_Malin_Head_1",VERT CS["Belfast",VDATUM["Belfast"],PARAMETER ["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Malin_Head",VDATUM["Malin_Head"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.037],OPERATIONACCURACY[0.01]] | COORDINATEOPERATION["Belfast_To_Malin_Head_1",SOURCECRS[VERTCRS["Belfast",VDATUM["Belfast"],CS[vertical,1],AXIS["Gravity-related height(H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Malin_Head",VDATUM["Malin_Head"],CS[vertical,1],AXIS["Gravity-related height(H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.037,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.01] |
| 5407 | Poolbeg_To_Malin_Head_1 | VERTTRAN["Poolbeg_To_Malin_Head_1",VER TCS["Poolbeg",VDATUM["Poolbeg"],PARAME TER["Vertical_Shift",0.0],PARAMETER["Directi on",1.0],UNIT["Foot_British_1936",0.304800 7491]],VERTCS["Malin_Head",VDATUM["Mali n_Head"],PARAMETER["Vertical_Shift",0.0],P ARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETE R["Vertical_Offset",-2.7],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Poolbeg_To_Malin_He ad_1",SOURCECRS[VERTCRS["Poolbeg",VDATUM[" Poolbeg"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot_British_1936",0.30480 07491]]]],TARGETCRS[VERTCRS["Malin_Head",VD ATUM["Malin_Head"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",-2.7,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR ACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5408 | Poolbeg_To_Belfast_1 | VERTTRAN["Poolbeg_To_Belfast_1",VERTCS[" Poolbeg",VDATUM["Poolbeg"],PARAMETER[" Vertical_Shift",0.0],PARAMETER["Direction",1 .0],UNIT["Foot_British_1936",0.3048007491]] ,VERTCS["Belfast",VDATUM["Belfast"],PARA METER["Vertical_Shift",0.0],PARAMETER["Dir ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" Vertical_Offset"],PARAMETER["Vertical_Offse t",-2.7],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Poolbeg_To_Belfast_1" ,SOURCECRS[VERTCRS["Poolbeg",VDATUM["Poolb eg"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot_British_1936",0.30480 07491]]]],TARGETCRS[VERTCRS["Belfast",VDATUM ["Belfast"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",- 2.7,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR ACY[0.1]] |
| 5409 | NGVD29_To_NAVD88_NAD27_1_Wes t | VERTTRAN["NGVD29_To_NAVD88_NAD27_1 _West",GEOGCS["GCS_North_American_192 7",DATUM["D_North_American_1927",SPHE ROID["Clarke_1866",6378206.4,294.9786982]],PRIMEM["Greenwich",0.0],UNIT["Degree", 0.0174532925199433]],VERTCS["NGVD_1929 ",VDATUM["National_Geodetic_Vertical_Dat um_1929"],PARAMETER["Vertical_Shift",0.0], PARAMETER["Direction",1.0],UNIT["Foot_US" ,0.3048006096012192]],VERTCS["NAVD_198 8",VDATUM["North_American_Vertical_Datu m_1988"],PARAMETER["Vertical_Shift",0.0],P ARAMETER["Direction",1.0],UNIT["Meter",1. 0]],VTMETHOD["VERTCON"],PARAMETER["Da taset_vertconw.94",0.0],OPERATIONACCURA CY[0.02]] | COORDINATEOPERATION["NGVD29_To_NAVD88_ NAD27_1_West",SOURCECRS[VERTCRS["NGVD_19 29",VDATUM["National_Geodetic_Vertical_Datum _1929"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT UM["North_American_Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_North_American_1927",D ATUM["D_North_American_1927",ELLIPSOID["Cla rke_1866",6378206.4,294.9786982,LENGTHUNIT[" Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN IT["Degree",0.0174532925199433]],CS[ellipsoidal, 2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["VERTCON"],PARAME TERFILE["vertconw.94"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|--------------------------------------------|--------------------------------------------------|
| 5410 | NGVD29_To_NAVD88_NAD27_2_Cent | VERTTRAN["NGVD29_To_NAVD88_NAD27_2 | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | ral | _Central",GEOGCS["GCS_North_American_19 | NAD27_2_Central",SOURCECRS[VERTCRS["NGVD_ |
| | | 27",DATUM["D_North_American_1927",SPH | 1929",VDATUM["National_Geodetic_Vertical_Dat |
| | | EROID["Clarke_1866",6378206.4,294.978698 | um_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | 2]],PRIMEM["Greenwich",0.0],UNIT["Degree" | height |
| | | ,0.0174532925199433]],VERTCS["NGVD_192 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 9",VDATUM["National_Geodetic_Vertical_Da | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | tum_1929"],PARAMETER["Vertical_Shift",0.0] | UM["North_American_Vertical_Datum_1988"],CS[|
| | | ,PARAMETER["Direction",1.0],UNIT["Foot_US | vertical,1],AXIS["Gravity-related height |
| | | ",0.3048006096012192]],VERTCS["NAVD_198 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 8",VDATUM["North_American_Vertical_Datu | ONCRS[GEOGCRS["GCS_North_American_1927",D |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | ATUM["D_North_American_1927",ELLIPSOID["Cla |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | rke_1866",6378206.4,294.9786982,LENGTHUNIT[" |
| | | 0]],VTMETHOD["VERTCON"],PARAMETER["Da | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | taset_vertconc.94",0.0],OPERATIONACCURAC | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | Y[0.02]] | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconc.94"],OPERATIONACCURACY[0.0 |
| | | | [2]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5411 | NGVD29_To_NAVD88_NAD27_3_East | VERTTRAN["NGVD29_To_NAVD88_NAD27_3 _East",GEOGCS["GCS_North_American_1927 ",DATUM["D_North_American_1927",SPHER OID["Clarke_1866",6378206.4,294.9786982]] ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. 0174532925199433]],VERTCS["NGVD_1929", VDATUM["National_Geodetic_Vertical_Datu m_1929"],PARAMETER["Vertical_Shift",0.0],P ARAMETER["Direction",1.0],UNIT["Foot_US", 0.3048006096012192]],VERTCS["NAVD_1988 ",VDATUM["North_American_Vertical_Datu m_1988"],PARAMETER["Vertical_Shift",0.0],P ARAMETER["Direction",1.0],UNIT["Meter",1. 0]],VTMETHOD["VERTCON"],PARAMETER["Dataset_vertcone.94",0.0],OPERATIONACCURA CY[0.02]] | COORDINATEOPERATION["NGVD29_To_NAVD88_ NAD27_3_East",SOURCECRS[VERTCRS["NGVD_192 9",VDATUM["National_Geodetic_Vertical_Datum_ 1929"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT UM["North_American_Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_North_American_1927",D ATUM["D_North_American_1927",ELLIPSOID["Cla rke_1866",6378206.4,294.9786982,LENGTHUNIT[" Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN IT["Degree",0.0174532925199433]],CS[ellipsoidal, 2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["VERTCON"],PARAME TERFILE["vertcone.94"],OPERATIONACCURACY[0.0 2]] |
| 5412 | KOC_CD_To_Kuwait_PWD_1 | VERTTRAN["KOC_CD_To_Kuwait_PWD_1",VE RTCS["KOC_Construction_Datum",VDATUM[" KOC_Construction_Datum"],PARAMETER["Ve rtical_Shift",0.0],PARAMETER["Direction",1.0] ,UNIT["Meter",1.0]],VERTCS["Kuwait_PWD",V DATUM["Kuwait_PWD"],PARAMETER["Vertic al_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VTMETHOD["Vertical_Offs et"],PARAMETER["Vertical_Offset",- 0.49],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["KOC_CD_To_Kuwait_P WD_1",SOURCECRS[VERTCRS["KOC_Construction_Datum"],CS [vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Kuwait_PWD",VDATUM["Kuwait_PWD"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.49,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------|----------------------------------------------|--------------------------------------------------|
| 5413 | KOC_CD_To_KOC_WD_1 | VERTTRAN["KOC_CD_To_KOC_WD_1",VERTC | COORDINATEOPERATION["KOC_CD_To_KOC_WD_ |
| | | S["KOC_Construction_Datum",VDATUM["KO | 1",SOURCECRS[VERTCRS["KOC_Construction_Datu |
| | | C_Construction_Datum"],PARAMETER["Vertic | m",VDATUM["KOC_Construction_Datum"],CS[vert |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ical,1],AXIS["Gravity-related height |
| | | NIT["Meter",1.0]],VERTCS["KOC_Well_Datum | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ",VDATUM["KOC_Well_Datum"],PARAMETER | VERTCRS["KOC_Well_Datum",VDATUM["KOC_Wel |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | I_Datum"],CS[vertical,1],AXIS["Gravity-related |
| | | ,- | height |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical | (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD[|
| | | _Offset"],PARAMETER["Vertical_Offset",4.74] | "Vertical_Offset"],PARAMETER["Vertical_Offset",4 |
| | | ,OPERATIONACCURACY[0.1]] | .74,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR |
| | | | ACY[0.1]] |
| 5414 | KOC_WD_To_Kuwait_PWD_1 | VERTTRAN["KOC_WD_To_Kuwait_PWD_1",V | COORDINATEOPERATION["KOC_WD_To_Kuwait_P |
| | | ERTCS["KOC_Well_Datum",VDATUM["KOC_ | WD_1",SOURCECRS[VERTCRS["KOC_Well_Datum", |
| | | Well_Datum"],PARAMETER["Vertical_Shift",0 | VDATUM["KOC_Well_Datum"],CS[vertical,1],AXIS[|
| | | .0],PARAMETER["Direction",- | "Gravity-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["Kuwait_PW | (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR |
| | | D",VDATUM["Kuwait_PWD"],PARAMETER["V | S[VERTCRS["Kuwait_PWD",VDATUM["Kuwait_PW |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | D"],CS[vertical,1],AXIS["Gravity-related height |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | Offset"],PARAMETER["Vertical_Offset",4.25], | rtical_Offset",4.25, |
| | | OPERATIONACCURACY[0.1]] | LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY |
| | | | [0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 5415 | GHA_To_EVRS_2000_1 | VERTTRAN["GHA_To_EVRS_2000_1",GEOGCS | COORDINATEOPERATION["GHA_To_EVRS_2000_1 |
| | | ["GCS_ETRS_1989",DATUM["D_ETRS_1989",S | ",SOURCECRS[VERTCRS["GHA",VDATUM["Gebrauc |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | hshohen_Adria"],CS[vertical,1],AXIS["Gravity- |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | related height |
| | | e",0.0174532925199433]],VERTCS["GHA",VD | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ATUM["Gebrauchshohen_Adria"],PARAMETE | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | n",1.0],UNIT["Meter",1.0]],VERTCS["EVRS_20 | Gravity-related height |
| | | 00",VDATUM["European_Vertical_Reference | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | _Frame_2000"],PARAMETER["Vertical_Shift", | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | er",1.0]],VTMETHOD["Vertical_Offset_and_Sl | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ope"],PARAMETER["Vertical_Offset",- | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0.356],PARAMETER["Longitude_Of_Evaluatio | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | n",14.45],PARAMETER["Latitude_Of_Evaluati | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | on",47.53333333333333],PARAMETER["Inclin | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ation_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.057],PARAMETER["Inclination_East",- 0.058],OPERATIONACCURACY[0.1]] | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.036],OPERATIONACCORACT[0.1]] | 0.356,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo ngitude_Of_Evaluation",14.45,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],PARAMETER["Latitude |
| | | | of_Evaluation",47.53333333333333,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Incl |
| | | | ination North",- |
| | | | 0.057,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination East",- |
| | | | 0.058,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |
| | | | TTU3330JJ,OFENATIONACCUNACT[U.T]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------|----------------------------------------------|--------------------------------------------------|
| 5416 | Baltic_1982_To_EVRS_2000_1 | VERTTRAN["Baltic_1982_To_EVRS_2000_1", | COORDINATEOPERATION["Baltic_1982_To_EVRS_ |
| | | GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS | 2000_1",SOURCECRS[VERTCRS["Baltic_1982",VDA |
| | | _1989",SPHEROID["GRS_1980",6378137.0,29 | TUM["Baltic_1982"],CS[vertical,1],AXIS["Gravity- |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | related height |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | Baltic_1982",VDATUM["Baltic_1982"],PARA | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | S_2000",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2000"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.18 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 2],PARAMETER["Longitude_Of_Evaluation",2 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 5.37666666666667],PARAMETER["Latitude_ | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Of_Evaluation",42.625],PARAMETER["Inclinat | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ion_North",0.001],PARAMETER["Inclination_ | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | East",-0.004],OPERATIONACCURACY[0.1]] | _Slope"],PARAMETER["Vertical_Offset",0.182,LEN |
| | | | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",25.376666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",42.625,ANGLEUNIT["Degree" |
| | | | ,0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",0.001,ANGLEUNIT["Arcsecond",0.0000048 |
| | | | 4813681109536]],PARAMETER["Inclination_East",- |
| | | | 0.004,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------|----------------------------------------------|--------------------------------------------------|
| 5417 | DNN_To_EVRS_2000_1 | VERTTRAN["DNN_To_EVRS_2000_1",GEOGCS | COORDINATEOPERATION["DNN_To_EVRS_2000_1 |
| | | ["GCS_ETRS_1989",DATUM["D_ETRS_1989",S | ",SOURCECRS[VERTCRS["Dansk_Normal_Nul",VDA |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | TUM["Dansk_Normal_Nul"],CS[vertical,1],AXIS["Gr |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | avity-related height |
| | | e",0.0174532925199433]],VERTCS["Dansk_N | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ormal_Nul",VDATUM["Dansk_Normal_Nul"], | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | Gravity-related height |
| | | ["EVRS_2000",VDATUM["European_Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Reference_Frame_2000"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_and_Slope"],PARAMETER["Vertical_Offset | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ",0.011],PARAMETER["Longitude_Of_Evaluati | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | on",9.23333333333333],PARAMETER["Latit | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ude_Of_Evaluation",56.03333333333333],PA | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | RAMETER["Inclination_North",0.003],PARAM | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | ETER["Inclination_East",0.011],OPERATIONAC | _Slope"],PARAMETER["Vertical_Offset",0.011,LEN |
| | | CURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",9.23333333333333,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",56.03333333333333,ANGLE |
| | | | UNIT["Degree",0.0174532925199433]],PARAMETE |
| | | | R["Inclination_North",0.003,ANGLEUNIT["Arcseco |
| | | | nd",0.00000484813681109536]],PARAMETER["Incl |
| | | | ination_East",0.011,ANGLEUNIT["Arcsecond",0.00 |
| | | | 000484813681109536]],OPERATIONACCURACY[0. |
| | | | [1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------|----------------------------------------------|----------------------------------------------------|
| 5418 | Baltic_To_EVRS_2000_1 | VERTTRAN["Baltic_To_EVRS_2000_1",GEOGC | COORDINATEOPERATION["Baltic_To_EVRS_2000_ |
| | | S["GCS_ETRS_1989",DATUM["D_ETRS_1989", | 1",SOURCECRS[VERTCRS["Baltic",VDATUM["Baltic |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | _Sea"],CS[vertical,1],AXIS["Gravity-related height |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ee",0.0174532925199433]],VERTCS["Baltic",V | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | DATUM["Baltic_Sea"],PARAMETER["Vertical_ | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| Gravity-related height |
| | | "Meter",1.0]],VERTCS["EVRS_2000",VDATUM | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ["European_Vertical_Reference_Frame_2000 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ETHOD["Vertical_Offset_and_Slope"],PARAM | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ETER["Vertical_Offset",0.133],PARAMETER["L | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ongitude_Of_Evaluation",25.8666666666666 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 7],PARAMETER["Latitude_Of_Evaluation",58. | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 7],PARAMETER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.013],PARAMETER["Inclination_East",0.005], | _Slope"],PARAMETER["Vertical_Offset",0.133,LEN |
| | | OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",25.86666666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",58.7,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",- |
| | | | 0.013,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.005,A |
| | | | NGLEUNIT["Arcsecond",0.0000048481368110953 |
| | | | 6]],OPERATIONACCURACY[0.1]] |
| 5419 | NGF_IGN69_To_EVRS_2000_1 | VERTTRAN["NGF_IGN69_To_EVRS_2000_1",V | COORDINATEOPERATION["NGF_IGN69_To_EVRS_ |
| | | ERTCS["NGF_IGN69",VDATUM["Nivellement_ | 2000_1",SOURCECRS[VERTCRS["NGF_IGN69",VDA |
| | | General_de_la_France_IGN69"],PARAMETER[| TUM["Nivellement_General_de_la_France_IGN69 |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | "],CS[vertical,1],AXIS["Gravity-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["EVRS_2000" | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ,VDATUM["European_Vertical_Reference_Fra | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | me_2000"],PARAMETER["Vertical_Shift",0.0], | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | Gravity-related height |
| | | .0]],VTMETHOD["Vertical_Offset"],PARAMET | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | ER["Vertical_Offset",- | rtical_Offset"],PARAMETER["Vertical_Offset",- |
| | | 0.486],OPERATIONACCURACY[0.1]] | 0.486,LENGTHUNIT["Meter",1.0]],OPERATIONACC |
| | | | URACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------|---------------------------------------------|--------------------------------------------------|
| 5420 | DHHN92_To_EVRS_2000_1 | VERTTRAN["DHHN92_To_EVRS_2000_1",GEO | COORDINATEOPERATION["DHHN92_To_EVRS_200 |
| | | GCS["GCS_ETRS_1989",DATUM["D_ETRS_198 | 0_1",SOURCECRS[VERTCRS["DHHN92",VDATUM[" |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | Deutsches_Haupthoehennetz_1992"],CS[vertical,1 |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" |],AXIS["Gravity-related height |
| | | Degree",0.0174532925199433]],VERTCS["DH | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | HN92",VDATUM["Deutsches_Haupthoehenn | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | etz_1992"],PARAMETER["Vertical_Shift",0.0], | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | Gravity-related height |
| | | .0]],VERTCS["EVRS_2000",VDATUM["Europea | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | n_Vertical_Reference_Frame_2000"],PARAM | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["V | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ertical_Offset_and_Slope"],PARAMETER["Ver | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | tical_Offset",0.014],PARAMETER["Longitude_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Of_Evaluation",10.21666666666667],PARAM | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ETER["Latitude_Of_Evaluation",51.05],PARA | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | METER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.001],PARAMETER["Inclination_East",0.0],O | _Slope"],PARAMETER["Vertical_Offset",0.014,LEN |
| | | PERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",10.21666666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",51.05,ANGLEUNIT["Degree", |
| | | | 0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",- |
| | | | 0.001,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.0,AN |
| | | | GLEUNIT["Arcsecond",0.00000484813681109536]] |
| | | | ,OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------|---------------------------------------------|--------------------------------------------------|
| 5421 | DHHN85_To_EVRS_2000_1 | VERTTRAN["DHHN85_To_EVRS_2000_1",GEO | COORDINATEOPERATION["DHHN85_To_EVRS_200 |
| | | GCS["GCS_ETRS_1989",DATUM["D_ETRS_198 | 0_1",SOURCECRS[VERTCRS["DHHN85",VDATUM[" |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | Deutsches_Haupthoehennetz_1985"],CS[vertical,1 |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" |],AXIS["Gravity-related height |
| | | Degree",0.0174532925199433]],VERTCS["DH | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | HN85",VDATUM["Deutsches_Haupthoehenn | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | etz_1985"],PARAMETER["Vertical_Shift",0.0], | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | Gravity-related height |
| | | .0]],VERTCS["EVRS_2000",VDATUM["Europea | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | n_Vertical_Reference_Frame_2000"],PARAM | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["V | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ertical_Offset_and_Slope"],PARAMETER["Ver | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | tical_Offset",0.017],PARAMETER["Longitude_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Of_Evaluation",8.666666666666666],PARAM | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ETER["Latitude_Of_Evaluation",51.05],PARA | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | METER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.002],PARAMETER["Inclination_East",0.003], | _Slope"],PARAMETER["Vertical_Offset",0.017,LEN |
| | | OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",8.666666666666666,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",51.05,ANGLEUNIT["Degree", |
| | | | 0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",- |
| | | | 0.002,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.003,A |
| | | | NGLEUNIT["Arcsecond",0.0000048481368110953 |
| | | | 6]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------|----------------------------------------------|---------------------------------------------------|
| 5422 | SNN76_To_EVRS_2000_1 | VERTTRAN["SNN76_To_EVRS_2000_1",GEOG | COORDINATEOPERATION["SNN76_To_EVRS_2000 |
| | | CS["GCS_ETRS_1989",DATUM["D_ETRS_1989 | _1",SOURCECRS[VERTCRS["SNN76",VDATUM["SN |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | N76"],CS[vertical,1],AXIS["Gravity-related height |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | egree",0.0174532925199433]],VERTCS["SNN | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | 76",VDATUM["SNN76"],PARAMETER["Vertica | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | I_Shift",0.0],PARAMETER["Direction",1.0],UNI | Gravity-related height |
| | | T["Meter",1.0]],VERTCS["EVRS_2000",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | M["European_Vertical_Reference_Frame_20 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 00"],PARAMETER["Vertical_Shift",0.0],PARA | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TMETHOD["Vertical_Offset_and_Slope"],PAR | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | AMETER["Vertical_Offset",0.157],PARAMETE | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | R["Longitude_Of_Evaluation",13.1666666666 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 6667],PARAMETER["Latitude_Of_Evaluation", | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 52.53333333333333],PARAMETER["Inclinatio | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | n_North",0.007],PARAMETER["Inclination_Ea | _Slope"],PARAMETER["Vertical_Offset",0.157,LEN |
| | | st",0.005],OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",13.16666666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",52.53333333333333,ANGLE |
| | | | UNIT["Degree",0.0174532925199433]],PARAMETE |
| | | | R["Inclination_North",0.007,ANGLEUNIT["Arcseco |
| | | | nd",0.00000484813681109536]],PARAMETER["Incl |
| | | | ination_East",0.005,ANGLEUNIT["Arcsecond",0.00 |
| | | | 000484813681109536]],OPERATIONACCURACY[0. |
| | | | 1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------|----------------------------------------------|---------------------------------------------------|
| 5424 | EOMA_1980_To_EVRS_2000_1 | VERTTRAN["EOMA_1980_To_EVRS_2000_1", | COORDINATEOPERATION["EOMA_1980_To_EVRS |
| | | GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS | _2000_1",SOURCECRS[VERTCRS["EOMA_1980",VD |
| | | _1989",SPHEROID["GRS_1980",6378137.0,29 | ATUM["Baltic_1980"],CS[vertical,1],AXIS["Gravity- |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | related height |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | EOMA_1980",VDATUM["Baltic_1980"],PARA | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | S_2000",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2000"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.14 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | |],PARAMETER["Longitude_Of_Evaluation",19. | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 5833333333333],PARAMETER["Latitude_Of | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | _Evaluation",46.9833333333333],PARAMET | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ER["Inclination_North",0.008],PARAMETER["I | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | nclination_East",- | _Slope"],PARAMETER["Vertical_Offset",0.14,LENG |
| | | 0.002],OPERATIONACCURACY[0.1]] | THUNIT["Meter",1.0]],PARAMETER["Longitude_Of |
| | | | _Evaluation",19.583333333333333,ANGLEUNIT["De |
| | | | gree",0.0174532925199433]],PARAMETER["Latitu |
| | | | de_Of_Evaluation",46.9833333333333333ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],PARAMETER[" |
| | | | Inclination_North",0.008,ANGLEUNIT["Arcsecond" |
| | | | ,0.00000484813681109536]],PARAMETER["Inclina |
| | | | tion_East",- |
| | | | 0.002,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------|----------------------------------------------|--------------------------------------------------|
| 5425 | NAP_To_EVRS_2000_1 | VERTTRAN["NAP_To_EVRS_2000_1",VERTCS[| COORDINATEOPERATION["NAP_To_EVRS_2000_1 |
| | | "NAP",VDATUM["Normaal_Amsterdams_Peil | ",SOURCECRS[VERTCRS["NAP",VDATUM["Normaal |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | _Amsterdams_Peil"],CS[vertical,1],AXIS["Gravity- |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VERT | related height |
| | | CS["EVRS_2000",VDATUM["European_Vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | al_Reference_Frame_2000"],PARAMETER["V | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | Gravity-related height |
| | | Offset"],PARAMETER["Vertical_Offset",- | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | 0.005],OPERATIONACCURACY[0.1]] | rtical_Offset"],PARAMETER["Vertical_Offset",- |
| | | | 0.005,LENGTHUNIT["Meter",1.0]],OPERATIONACC |
| | | | URACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5426 | NN54_To_EVRS_2000_1 | VERTTRAN["NN54_To_EVRS_2000_1",GEOGC S["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.25722 2101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["NN54",VDATUM["Norway_Normal_Null_1954"],PAR AMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["EV RS_2000",VDATUM["European_Vertical_Reference_Frame_2000"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset_and_Slope"],PARAMETER["Vertical_Offset",-0.001],PARAMETER["Longitude_Of_Evaluation",11.166666666666667],PARAMETER["Latitude_Of_Evaluation",62.93333333333333],PARAMETER["Inclination_North",-0.01],PARAMETER["Inclination_East",0.034],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["NN54_To_EVRS_2000_ 1",SOURCECRS[VERTCRS["NN54",VDATUM["Norw ay_Normal_Null_1954"],CS[vertical,1],AXIS["Gravit y-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRS_2000",VDATUM["European_Verti cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["Vertical_Offset_and _Slope"],PARAMETER["Vertical_Offset",- 0.001,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo ngitude_Of_Evaluation",11.16666666666667,ANG LEUNIT["Degree",0.0174532925199433]],PARAME TER["Latitude_Of_Evaluation",62.933333333333 3,ANGLEUNIT["Degree",0.0174532925199433]],PA RAMETER["Inclination_North",- 0.01,ANGLEUNIT["Arcsecond",0.00000484813681 109536]],PARAMETER["Inclination_East",0.034,AN GLEUNIT["Arcsecond",0.00000484813681109536]] ,OPERATIONACCURACY[0.1]] |
| 5427 | Cascais_To_EVRS_2000_1 | VERTTRAN["Cascais_To_EVRS_2000_1",VERT CS["Cascais",VDATUM["Cascais"],PARAMETE R["Vertical_Shift",0.0],PARAMETER["Directio n",1.0],UNIT["Meter",1.0]],VERTCS["EVRS_20 00",VDATUM["European_Vertical_Reference _Frame_2000"],PARAMETER["Vertical_Shift", 0.0],PARAMETER["Direction",1.0],UNIT["Met er",1.0]],VTMETHOD["Vertical_Offset"],PARA METER["Vertical_Offset",- 0.315],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Cascais_To_EVRS_2000 _1",SOURCECRS[VERTCRS["Cascais",VDATUM["Cascais"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRS_2000",VDATUM["European_Vertical_Reference_Frame_2000"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.315,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------|----------------------------------------------|--------------------------------------------------|
| 5428 | NVN99_To_EVRS_2000_1 | VERTTRAN["NVN99_To_EVRS_2000_1",GEOG | COORDINATEOPERATION["NVN99_To_EVRS_2000 |
| | | CS["GCS_ETRS_1989",DATUM["D_ETRS_1989 | _1",SOURCECRS[VERTCRS["SVS2000",VDATUM["SI |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ovenian_Vertical_System_2000"],CS[vertical,1],AX |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | IS["Gravity-related height |
| | | egree",0.0174532925199433]],VERTCS["SVS2 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 000",VDATUM["Slovenian_Vertical_System_2 | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | 000"],PARAMETER["Vertical_Shift",0.0],PARA | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | Gravity-related height |
| | | ERTCS["EVRS_2000",VDATUM["European_Ve | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | rtical_Reference_Frame_2000"],PARAMETER[| ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | _Offset_and_Slope"],PARAMETER["Vertical_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Offset",- | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0.411],PARAMETER["Longitude_Of_Evaluatio | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | n",15.0],PARAMETER["Latitude_Of_Evaluatio | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | n",46.0],PARAMETER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.033],PARAMETER["Inclination_East",0.008], | _Slope"],PARAMETER["Vertical_Offset",- |
| | | OPERATIONACCURACY[0.1]] | 0.411,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | | ngitude_Of_Evaluation",15.0,ANGLEUNIT["Degree |
| | | | ",0.0174532925199433]],PARAMETER["Latitude_O |
| | | | f_Evaluation",46.0,ANGLEUNIT["Degree",0.017453 |
| | | | 2925199433]],PARAMETER["Inclination_North",- |
| | | | 0.033,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.008,A |
| | | | NGLEUNIT["Arcsecond",0.0000048481368110953 |
| | | | 6]],OPERATIONACCURACY[0.1]] |

| Name | WKT1 | WKT2 |
|-------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alicante_To_EVRS_2000_1 | VERTTRAN["Alicante_To_EVRS_2000_1",GEO | COORDINATEOPERATION["Alicante_To_EVRS_200 |
| | GCS["GCS_ETRS_1989",DATUM["D_ETRS_198 | 0_1",SOURCECRS[VERTCRS["Alicante",VDATUM["A |
| | 9",SPHEROID["GRS_1980",6378137.0,298.25 | licante"],CS[vertical,1],AXIS["Gravity-related |
| | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | height |
| | Degree",0.0174532925199433]],VERTCS["Alic | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | = ' | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | Gravity-related height |
| | | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | <u> </u> | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | _ | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.486,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | OPERATIONACCORACY[0.1]] | ngitude_Of_Evaluation",- |
| | | 3.65972222222222,ANGLEUNIT["Degree",0.0174 |
| | | 532925199433]],PARAMETER["Latitude_Of_Evalu ation",40.77222222222222,ANGLEUNIT["Degree", |
| | | 0.0174532925199433]],PARAMETER["Inclination |
| | | North",- |
| | | 0.003,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | 1109536]],PARAMETER["Inclination_East",0.006,A |
| | | NGLEUNIT["Arcsecond",0.000048481368110953 |
| | | 6]],OPERATIONACCURACY[0.1]] |
| | | Alicante_To_EVRS_2000_1 VERTTRAN["Alicante_To_EVRS_2000_1",GEO GCS["GCS_ETRS_1989",DATUM["D_ETRS_198 9",SPHEROID["GRS_1980",6378137.0,298.25 7222101]],PRIMEM["Greenwich",0.0],UNIT[" |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------|---------------------------------------------|---------------------------------------------------------------------------------------------|
| 5430 | RH70_To_EVRS_2000_1 | VERTTRAN["RH70_To_EVRS_2000_1",GEOGC | COORDINATEOPERATION["RH70_To_EVRS_2000_ |
| | | S["GCS_ETRS_1989",DATUM["D_ETRS_1989", | 1",SOURCECRS[VERTCRS["RH70",VDATUM["Rikets |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | _Hojdsystem_1970"],CS[vertical,1],AXIS["Gravity- |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | related height |
| | | ee",0.0174532925199433]],VERTCS["RH70",V | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | DATUM["Rikets_Hojdsystem_1970"],PARAM | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | tion",1.0],UNIT["Meter",1.0]],VERTCS["EVRS_ | Gravity-related height |
| | | 2000",VDATUM["European_Vertical_Referen | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ce_Frame_2000"],PARAMETER["Vertical_Shif | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | t",0.0],PARAMETER["Direction",1.0],UNIT["M | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | eter",1.0]],VTMETHOD["Vertical_Offset_and_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Slope"],PARAMETER["Vertical_Offset",0.005], | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | PARAMETER["Longitude_Of_Evaluation",16.2 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 333333333333],PARAMETER["Latitude_Of_ | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Evaluation",64.0],PARAMETER["Inclination_N | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | orth",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.012],PARAMETER["Inclination_East",0.0],O | _Slope"],PARAMETER["Vertical_Offset",0.005,LEN |
| | | PERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",16.233333333333333,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati tude Of Evaluation",64.0,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",- |
| | | | 0.012,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination East",0.0,AN |
| | | | GLEUNIT["Arcsecond",0.0000484813681109536]] |
| | | | OPERATIONACCURACY[0.1]] |
| | | | ,UFENATIONACCURACT[U.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------|----------------------------------------------|----------------------------------------------------|
| 5431 | LN02_To_EVRS_2000_1 | VERTTRAN["LN02_To_EVRS_2000_1",GEOGC | COORDINATEOPERATION["LN02_To_EVRS_2000_ |
| | | S["GCS_ETRS_1989",DATUM["D_ETRS_1989", | 1",SOURCECRS[VERTCRS["LN_1902",VDATUM["La |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | ndesnivellement_1902"],CS[vertical,1],AXIS["Gravi |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | ty-related height |
| | | ee",0.0174532925199433]],VERTCS["LN_190 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 2",VDATUM["Landesnivellement_1902"],PAR | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["EV | Gravity-related height |
| | | RS_2000",VDATUM["European_Vertical_Refe | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | rence_Frame_2000"],PARAMETER["Vertical_ | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | "Meter",1.0]],VTMETHOD["Vertical_Offset_a | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | nd_Slope"],PARAMETER["Vertical_Offset",- | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0.245],PARAMETER["Longitude_Of_Evaluatio | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | n",8.1833333333333334],PARAMETER["Latitu | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | de_Of_Evaluation",46.916666666666666],PAR | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | AMETER["Inclination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.21],PARAMETER["Inclination_East",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.032],OPERATIONACCURACY[0.1]] | 0.245,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | | ngitude_Of_Evaluation",8.1833333333333334,ANG |
| | | | LEUNIT["Degree",0.0174532925199433]],PARAME |
| | | | TER["Latitude_Of_Evaluation",46.9166666666666 |
| | | | 6,ANGLEUNIT["Degree",0.0174532925199433]],PA |
| | | | RAMETER["Inclination_North",- |
| | | | 0.21,ANGLEUNIT["Arcsecond",0.00000484813681 |
| | | | 109536]],PARAMETER["Inclination_East",- |
| | | | 0.032,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.1]] |
| 5432 | N60_To_EVRS_2000_1 | VERTTRAN["N60_To_EVRS_2000_1",VERTCS[| COORDINATEOPERATION["N60_To_EVRS_2000_1" |
| | | "N60",VDATUM["Helsinki_1960"],PARAMETE | ,SOURCECRS[VERTCRS["N60",VDATUM["Helsinki_ |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | 1960"],CS[vertical,1],AXIS["Gravity-related height |
| | | n",1.0],UNIT["Meter",1.0]],VERTCS["EVRS_20 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 00",VDATUM["European_Vertical_Reference | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | _Frame_2000"],PARAMETER["Vertical_Shift", | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | Gravity-related height |
| | | er",1.0]],VTMETHOD["Vertical_Offset"],PARA | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | METER["Vertical_Offset",0.213],OPERATIONA | rtical_Offset"],PARAMETER["Vertical_Offset",0.21 |
| | | CCURACY[0.1]] | 3,LENGTHUNIT["Meter",1.0]],OPERATIONACCURA |
| | | | CY[0.1]] |
| | | | [CY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------|----------------------------------------------|----------------------------------------------------|
| 5434 | Baltic_To_EVRS_2000_2 | VERTTRAN["Baltic_To_EVRS_2000_2",GEOGC | COORDINATEOPERATION["Baltic_To_EVRS_2000_ |
| | | S["GCS_ETRS_1989",DATUM["D_ETRS_1989", | 2",SOURCECRS[VERTCRS["Baltic",VDATUM["Baltic |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | _Sea"],CS[vertical,1],AXIS["Gravity-related height |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ee",0.0174532925199433]],VERTCS["Baltic",V | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | DATUM["Baltic_Sea"],PARAMETER["Vertical_ | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| Gravity-related height |
| | | "Meter",1.0]],VERTCS["EVRS_2000",VDATUM | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ["European_Vertical_Reference_Frame_2000 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ETHOD["Vertical_Offset_and_Slope"],PARAM | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ETER["Vertical_Offset",0.102],PARAMETER["L | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ongitude_Of_Evaluation",24.0166666666666 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 7],PARAMETER["Latitude_Of_Evaluation",55. | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 3],PARAMETER["Inclination_North",0.0],PAR | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | AMETER["Inclination_East",0.002],OPERATIO | _Slope"],PARAMETER["Vertical_Offset",0.102,LEN |
| | | NACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",24.01666666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",55.3,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",0.0,ANGLEUNIT["Arcsecond",0.00000484813 |
| | | | 681109536]],PARAMETER["Inclination_East",0.002 |
| | | | ,ANGLEUNIT["Arcsecond",0.000004848136811095 |
| | | | 36]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------|----------------------------------------------|----------------------------------------------------|
| 5435 | Baltic_To_EVRS_2000_3 | VERTTRAN["Baltic_To_EVRS_2000_3",GEOGC | COORDINATEOPERATION["Baltic_To_EVRS_2000_ |
| | | S["GCS_ETRS_1989",DATUM["D_ETRS_1989", | 3",SOURCECRS[VERTCRS["Baltic",VDATUM["Baltic |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | _Sea"],CS[vertical,1],AXIS["Gravity-related height |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ee",0.0174532925199433]],VERTCS["Baltic",V | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | DATUM["Baltic_Sea"],PARAMETER["Vertical_ | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| Gravity-related height |
| | | "Meter",1.0]],VERTCS["EVRS_2000",VDATUM | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ["European_Vertical_Reference_Frame_2000 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ETHOD["Vertical_Offset_and_Slope"],PARAM | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ETER["Vertical_Offset",0.122],PARAMETER["L | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ongitude_Of_Evaluation",19.25],PARAMETER | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ["Latitude_Of_Evaluation",48.6333333333333 | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 33],PARAMETER["Inclination_North",0.02],PA | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | RAMETER["Inclination_East",0.0],OPERATION | _Slope"],PARAMETER["Vertical_Offset",0.122,LEN |
| | | ACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",19.25,ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]],PARAMETER["Latitude_Of_Eval |
| | | | uation",48.63333333333333,ANGLEUNIT["Degree |
| | | | ",0.0174532925199433]],PARAMETER["Inclination |
| | | | _North",0.02,ANGLEUNIT["Arcsecond",0.0000048 |
| | | | 4813681109536]],PARAMETER["Inclination_East", |
| | | | 0.0,ANGLEUNIT["Arcsecond",0.000004848136811 |
| | | | 09536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 5436 | Baltic_Height_To_EVRS_2000_Height_ | VERTTRAN["Baltic_Height_To_EVRS_2000_H | COORDINATEOPERATION["Baltic_Height_To_EVRS |
| | 1 | eight_1",GEOGCS["GCS_ETRS_1989",DATUM[| _2000_Height_1",SOURCECRS[VERTCRS["Baltic",V |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | DATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Baltic",VDATUM["Baltic_Sea"],PARA | VERTCRS["EVRS_2000",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | S_2000",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2000"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_an | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | d_Slope"],PARAMETER["Vertical_Offset",0.13 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 3],PARAMETER["Longitude_Of_Evaluation",2 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 5.8666666666667],PARAMETER["Latitude_ | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Of_Evaluation",58.7],PARAMETER["Inclinatio | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | n_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.014],PARAMETER["Inclination_East",0.005], | _Slope"],PARAMETER["Vertical_Offset",0.133,LEN |
| | | OPERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",25.8666666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",58.7,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",- |
| | | | 0.014,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",0.005,A |
| | | | NGLEUNIT["Arcsecond",0.0000048481368110953 |
| | | | 6]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5437 | Baltic_To_EVRS_2000_2 | VERTTRAN["Baltic_To_EVRS_2000_2",GEOGC S["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.25722 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr ee",0.0174532925199433]],VERTCS["Baltic",V DATUM["Baltic_Sea"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["EVRS_2000",VDATUM ["European_Vertical_Reference_Frame_2000"],PARAMETER["Vertical_Shift",0.0],PARAME TER["Direction",1.0],UNIT["Meter",1.0]],VTM ETHOD["Vertical_Offset_and_Slope"],PARAM ETER["Vertical_Offset",0.102],PARAMETER["Longitude_Of_Evaluation",24.0166666666666667],PARAMETER["Latitude_Of_Evaluation",55.3],PARAMETER["Inclination_North",0.0],PAR AMETER["Inclination_East",0.002],OPERATIO NACCURACY[0.1]] | COORDINATEOPERATION["Baltic_To_EVRS_2000_2",SOURCECRS[VERTCRS["Baltic",VDATUM["Baltic _Sea"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRS_2000",VDATUM["European_Vertical_Reference_Frame_2000"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["Vertical_Offset_and_Slope"],PARAMETER["Vertical_Offset",0.102,LENGTHUNIT["Meter",1.0]],PARAMETER["Longitude_Of_Evaluation",24.016666666666667,ANGLEUNIT["Degree",0.0174532925199433]],PARAMETER["Longitude_Of_Evaluation",55.3,ANGLEUNIT["Degree",0.0174532925199433]],PARAMETER["Inclination_North",0.0,ANGLEUNIT["Arcsecond",0.00000484813681109536]],PARAMETER["Inclination_East",0.002,ANGLEUNIT["Arcsecond",0.00000484813681109536]],OPERATIONACCURACY[0.1]] |
| 5438 | Baltic_Height_To_Caspian_Height_1 | VERTTRAN["Baltic_Height_To_Caspian_Heigh t_1",VERTCS["Baltic",VDATUM["Baltic_Sea"], PARAMETER["Vertical_Shift",0.0],PARAMETE R["Direction",1.0],UNIT["Meter",1.0]],VERTCS ["Caspian_height",VDATUM["Caspian_Sea"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETH OD["Vertical_Offset"],PARAMETER["Vertical_Offset",28.0],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Height_To_Caspi an_Height_1",SOURCECRS[VERTCRS["Baltic",VDAT UM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Caspian_height",VDATUM["Caspian_Se a"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",28.0, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5440 | Baltic_Depth_To_Caspian_Depth_1 | VERTTRAN["Baltic_Depth_To_Caspian_Depth _1",VERTCS["Baltic_depth",VDATUM["Baltic_Sea"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",- 1.0],UNIT["Meter",1.0]],VERTCS["Caspian",VD ATUM["Caspian_Sea"],PARAMETER["Vertical _Shift",0.0],PARAMETER["Direction",- 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical _Offset"],PARAMETER["Vertical_Offset",- 28.0],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Depth_To_Caspi an_Depth_1",SOURCECRS[VERTCRS["Baltic_depth ",VDATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravi ty-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR S[VERTCRS["Caspian",VDATUM["Caspian_Sea"],CS [vertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-28.0,LENGTHUNIT["Meter",1.0]],OPERATIONACCU RACY[0.0]] |
| 5441 | Baltic_Depth_To_Caspian_Height_1 | VERTTRAN["Baltic_Depth_To_Caspian_Height _1",VERTCS["Baltic_depth",VDATUM["Baltic_Sea"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",- 1.0],UNIT["Meter",1.0]],VERTCS["Caspian_height",VDATUM["Caspian_Sea"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",28.0],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Depth_To_Caspi an_Height_1",SOURCECRS[VERTCRS["Baltic_depth ",VDATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravi ty-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR S[VERTCRS["Caspian_height",VDATUM["Caspian_S |
| 5442 | Baltic_Height_To_Baltic_Depth_1 | VERTTRAN["Baltic_Height_To_Baltic_Depth_ 1",VERTCS["Baltic",VDATUM["Baltic_Sea"],PA RAMETER["Vertical_Shift",0.0],PARAMETER[" Direction",1.0],UNIT["Meter",1.0]],VERTCS["B altic_depth",VDATUM["Baltic_Sea"],PARAME TER["Vertical_Shift",0.0],PARAMETER["Directi on",- 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical _Offset"],PARAMETER["Vertical_Offset",0.0], OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Height_To_Baltic_Depth_1",SOURCECRS[VERTCRS["Baltic",VDATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity-related height(H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Baltic_depth",VDATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity-related height(H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.0,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5443 | Baltic_Height_To_AIOC95_Height_1 | VERTTRAN["Baltic_Height_To_AIOC95_Heigh t_1",VERTCS["Baltic",VDATUM["Baltic_Sea"], PARAMETER["Vertical_Shift",0.0],PARAMETE R["Direction",1.0],UNIT["Meter",1.0]],VERTCS ["AIOC95_Height",VDATUM["AIOC_1995"],PA RAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHO D["Vertical_Offset"],PARAMETER["Vertical_Offset",26.3],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Height_To_AIOC 95_Height_1",SOURCECRS[VERTCRS["Baltic",VDAT UM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["AIOC95_Height",VDATUM["AIOC_1995"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",26.3, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.0]] |
| 5445 | Baltic_Depth_To_AIOC95_Depth_1 | VERTTRAN["Baltic_Depth_To_AIOC95_Depth _1",VERTCS["Baltic_depth",VDATUM["Baltic_ Sea"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",- 1.0],UNIT["Meter",1.0]],VERTCS["AIOC95_De pth",VDATUM["AIOC_1995"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",- 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical _Offset"],PARAMETER["Vertical_Offset",- 26.3],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Depth_To_AIOC 95_Depth_1",SOURCECRS[VERTCRS["Baltic_depth ",VDATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravi ty-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR S[VERTCRS["AIOC95_Depth",VDATUM["AIOC_199 5"],CS[vertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-26.3,LENGTHUNIT["Meter",1.0]],OPERATIONACCU RACY[0.0]] |
| 5446 | Baltic_Depth_To_AIOC95_Height_1 | VERTTRAN["Baltic_Depth_To_AIOC95_Height _1",VERTCS["Baltic_depth",VDATUM["Baltic_Sea"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",- 1.0],UNIT["Meter",1.0]],VERTCS["AIOC95_Height",VDATUM["AIOC_1995"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",26.3],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Depth_To_AIOC 95_Height_1",SOURCECRS[VERTCRS["Baltic_depth ",VDATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravi ty-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR S[VERTCRS["AIOC95_Height",VDATUM["AIOC_199 5"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",26.3, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5447 | Baltic_Height_To_Black_Sea_Height_1 | VERTTRAN["Baltic_Height_To_Black_Sea_Height_1",VERTCS["Baltic",VDATUM["Baltic_Sea"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Black_Sea",VDATUM["Black_Sea"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.4],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["Baltic_Height_To_Black _Sea_Height_1",SOURCECRS[VERTCRS["Baltic",VD ATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Black_Sea",VDATUM["Black_Sea"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.4,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.0]] |
| 5448 | Poolbeg_Height_To_Malin_Head_Height_1 | VERTTRAN["Poolbeg_Height_To_Malin_Head _Height_1",VERTCS["Poolbeg",VDATUM["Poo lbeg"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",1.0],UNIT["Foot_British_1 936",0.3048007491]],VERTCS["Malin_Head", VDATUM["Malin_Head"],PARAMETER["Vertic al_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VTMETHOD["Vertical_Offs et"],PARAMETER["Vertical_Offset",- 2.7],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Poolbeg_Height_To_M alin_Head_Height_1",SOURCECRS[VERTCRS["Pool beg",VDATUM["Poolbeg"],CS[vertical,1],AXIS["Gra vity-related height (H)",up,LENGTHUNIT["Foot_British_1936",0.30480 07491]]]],TARGETCRS[VERTCRS["Malin_Head",VD ATUM["Malin_Head"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",-2.7,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR ACY[0.1]] |
| 5449 | Poolbeg_Height_To_Belfast_Height_1 | VERTTRAN["Poolbeg_Height_To_Belfast_Height_1",VERTCS["Poolbeg",VDATUM["Poolbeg"],PARAMETER["Vertical_Shift",0.0],PARAMET ER["Direction",1.0],UNIT["Foot_British_1936",0.3048007491]],VERTCS["Belfast",VDATUM["Belfast"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-2.7],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Poolbeg_Height_To_Be Ifast_Height_1",SOURCECRS[VERTCRS["Poolbeg",V DATUM["Poolbeg"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot_British_1936",0.30480 07491]]]],TARGETCRS[VERTCRS["Belfast",VDATUM ["Belfast"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",-2.7,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR ACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5450 | KOC_CD_Height_To_Kuwait_PWD_Height_1 | VERTTRAN["KOC_CD_Height_To_Kuwait_PW D_Height_1",VERTCS["KOC_Construction_Dat um",VDATUM["KOC_Construction_Datum"],P ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS[" Kuwait_PWD",VDATUM["Kuwait_PWD"],PAR AMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD ["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.49],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["KOC_CD_Height_To_Ku wait_PWD_Height_1",SOURCECRS[VERTCRS["KOC _Construction_Datum",VDATUM["KOC_Constructi on_Datum"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Kuwait_PWD",VDATUM["Kuwait_PWD"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",- 0.49,LENGTHUNIT["Meter",1.0]],OPERATIONACCU RACY[0.1]] |
| 5452 | Belfast_Height_To_Malin_Head_Height_1 | VERTTRAN["Belfast_Height_To_Malin_Head_ Height_1",VERTCS["Belfast",VDATUM["Belfas t"],PARAMETER["Vertical_Shift",0.0],PARAME TER["Direction",1.0],UNIT["Meter",1.0]],VERT CS["Malin_Head",VDATUM["Malin_Head"],P ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETH OD["Vertical_Offset"],PARAMETER["Vertical_ Offset",-0.037],OPERATIONACCURACY[0.01]] | COORDINATEOPERATION["Belfast_Height_To_Mal in_Head_Height_1",SOURCECRS[VERTCRS["Belfast ",VDATUM["Belfast"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Malin_Head",VDATUM["Malin_Head"], CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.037,LENGTHUNIT["Meter",1.0]],OPERATIONACC URACY[0.01]] |
| 5453 | KOC_CD_Height_To_Kuwait_WD_Dep th_Ft_Intl_1 | VERTTRAN["KOC_CD_Height_To_Kuwait_WD_Depth_Ft_Intl_1",VERTCS["KOC_Construction_Datum",VDATUM["KOC_Construction_Datum"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["KOC_WD_depth_ft",VDATUM["KOC_Well_Datum"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",-1.0],UNIT["Foot",0.3048]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",15.55],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["KOC_CD_Height_To_Ku wait_WD_Depth_Ft_Intl_1",SOURCECRS[VERTCRS["KOC_Construction_Datum",VDATUM["KOC_Construction_Datum"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["KOC_WD_depth_ft",VDATUM["KOC_W ell_Datum"],CS[vertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Foot",0.3048]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",15.55,LENGTHUNIT["Foot",0.3048]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 5454 | HKPD_Height_To_HKCD_Depth_1 | VERTTRAN["HKPD_Height_To_HKCD_Depth_ | COORDINATEOPERATION["HKPD_Height_To_HKC |
| | | 1",VERTCS["Hong_Kong_Principal_Datum",V | D_Depth_1",SOURCECRS[VERTCRS["Hong_Kong_P |
| | | DATUM["Hong_Kong_Principal_Datum"],PAR | rincipal_Datum",VDATUM["Hong_Kong_Principal_ |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | Datum"],CS[vertical,1],AXIS["Gravity-related |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["Ho | height |
| | | ng_Kong_Chart_Datum",VDATUM["Hong_Ko | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ng_Chart_Datum"],PARAMETER["Vertical_Shi | VERTCRS["Hong_Kong_Chart_Datum",VDATUM[" |
| | | ft",0.0],PARAMETER["Direction",- | Hong_Kong_Chart_Datum"],CS[vertical,1],AXIS["G |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical | ravity-related height |
| | | _Offset"],PARAMETER["Vertical_Offset",- | (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD[|
| | | 0.146],OPERATIONACCURACY[0.0]] | "Vertical_Offset"],PARAMETER["Vertical_Offset",- |
| | | | 0.146,LENGTHUNIT["Meter",1.0]],OPERATIONACC |
| | | | URACY[0.0]] |
| 5455 | KOC_WD_Depth_To_Kuwait_PWD_He | VERTTRAN["KOC_WD_Depth_To_Kuwait_PW | COORDINATEOPERATION["KOC_WD_Depth_To_K |
| | ight_1 | D_Height_1",VERTCS["KOC_Well_Datum",VD | uwait_PWD_Height_1",SOURCECRS[VERTCRS["KO |
| | | ATUM["KOC_Well_Datum"],PARAMETER["Ve | C_Well_Datum",VDATUM["KOC_Well_Datum"],CS |
| | | rtical_Shift",0.0],PARAMETER["Direction",- | [vertical,1],AXIS["Gravity-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["Kuwait_PW | (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR |
| | | D",VDATUM["Kuwait_PWD"],PARAMETER["V | S[VERTCRS["Kuwait_PWD",VDATUM["Kuwait_PW |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | D"],CS[vertical,1],AXIS["Gravity-related height |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | Offset"],PARAMETER["Vertical_Offset",4.25], | rtical_Offset"],PARAMETER["Vertical_Offset",4.25, |
| | | OPERATIONACCURACY[0.1]] | LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY |
| | | | [0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------|----------------------------------------------|--------------------------------------------------|
| 5557 | GHA_To_EVRF_2007_height_1 | VERTTRAN["GHA_To_EVRF_2007_height_1", | COORDINATEOPERATION["GHA_To_EVRF_2007_h |
| | | GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS | eight_1",SOURCECRS[VERTCRS["GHA",VDATUM[" |
| | | _1989",SPHEROID["GRS_1980",6378137.0,29 | Gebrauchshohen_Adria"],CS[vertical,1],AXIS["Grav |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | ity-related height |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | GHA",VDATUM["Gebrauchshohen_Adria"],PA | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | Direction",1.0],UNIT["Meter",1.0]],VERTCS["E | Gravity-related height |
| | | VRF_2007",VDATUM["European_Vertical_Ref | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | erence_Frame_2007"],PARAMETER["Vertical | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | T["Meter",1.0]],VTMETHOD["Vertical_Offset_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | and_Slope"],PARAMETER["Vertical_Offset",- | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0.335],PARAMETER["Longitude_Of_Evaluatio | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | n",14.45],PARAMETER["Latitude_Of_Evaluati | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | on",47.53333333333333],PARAMETER["Inclin | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ation_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.065],PARAMETER["Inclination_East",- | _Slope"],PARAMETER["Vertical_Offset",- |
| | | 0.06],OPERATIONACCURACY[0.1]] | 0.335,LENGTHUNIT["Meter",1.0]],PARAMETER["Lo |
| | | | ngitude_Of_Evaluation",14.45,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],PARAMETER["Latitude_ |
| | | | Of_Evaluation",47.53333333333333,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Incl |
| | | | ination_North",- |
| | | | 0.065,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],PARAMETER["Inclination_East",- |
| | | | 0.06,ANGLEUNIT["Arcsecond",0.00000484813681 |
| | | | 109536]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|--------------------------------------------|----------------------------------------------------|
| 5656 | GDA94_Height_To_AHD_Height_AUS | VERTTRAN["GDA94_Height_To_AHD_Height_ | COORDINATEOPERATION["GDA94_Height_To_AH |
| | Geoid09_49 | AUSGeoid09_49",GEOGCS["GCS_GDA_1994", | D_Height_AUSGeoid09_49",SOURCECRS[VERTCRS[|
| | | DATUM["D_GDA_1994",SPHEROID["GRS_198 | "GDA_1994",DATUM["D_GDA_1994",ELLIPSOID[" |
| | | 0",6378137.0,298.257222101]],PRIMEM["Gre | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | enwich",0.0],UNIT["Degree",0.017453292519 | IT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 9433]],VERTCS["GDA_1994",DATUM["D_GDA | height |
| | | _1994",SPHEROID["GRS_1980",6378137.0,29 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | ERTCRS["AHD",VDATUM["Australian_Height_Datu |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | m"],CS[vertical,1],AXIS["Gravity-related height |
| | | ",1.0]],VERTCS["AHD",VDATUM["Australian_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Height_Datum"],PARAMETER["Vertical_Shift" | ONCRS[GEOGCRS["GCS_GDA_1994",DATUM["D_G |
| | | ,0.0],PARAMETER["Direction",1.0],UNIT["Met | DA_1994",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | er",1.0]],VTMETHOD["GEOID"],PARAMETER[" | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Interpolation_Type",40.0],PARAMETER["Data | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | set_AUSGeoid09_GDA94_V1.01_DOV_windo | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ws",0.0],OPERATIONACCURACY[0.03]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["AUSGeoid09_GDA94_V1.01_ |
| | | | DOV_windows"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|----------------------------------------------------|
| 5657 | GDA94_Height_To_AHD_Tasmania_H | VERTTRAN["GDA94_Height_To_AHD_Tasman | COORDINATEOPERATION["GDA94_Height_To_AH |
| | eight_AUSGeoid09_2 | ia_Height_AUSGeoid09_2",GEOGCS["GCS_GD | D_Tasmania_Height_AUSGeoid09_2",SOURCECRS[|
| | | A_1994",DATUM["D_GDA_1994",SPHEROID[" | VERTCRS["GDA_1994",DATUM["D_GDA_1994",ELL |
| | | GRS_1980",6378137.0,298.257222101]],PRI | IPSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | NGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellip |
| | | 4532925199433]],VERTCS["GDA_1994",DATU | soidal height |
| | | M["D_GDA_1994",SPHEROID["GRS_1980",63 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 78137.0,298.257222101]],PARAMETER["Verti | ERTCRS["AHD_Tasmania",VDATUM["Australian_H |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | eight_Datum_Tasmania"],CS[vertical,1],AXIS["Grav |
| | | NIT["Meter",1.0]],VERTCS["AHD_Tasmania",V | ity-related height |
| | | DATUM["Australian_Height_Datum_Tasmani | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | a"],PARAMETER["Vertical_Shift",0.0],PARAM | ONCRS[GEOGCRS["GCS_GDA_1994",DATUM["D_G |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VT | DA_1994",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | METHOD["GEOID"],PARAMETER["Interpolatio | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | n_Type",40.0],PARAMETER["Dataset_AUSGe | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | oid09_GDA94_V1.01_DOV_windows",0.0],OP | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ERATIONACCURACY[0.03]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["AUSGeoid09_GDA94_V1.01_ |
| | | | DOV_windows"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 6326 | NAD_1983_2011_To_NAVD88_CONUS | VERTTRAN["NAD_1983_2011_To_NAVD88_C | COORDINATEOPERATION["NAD_1983_2011_To_N |
| | _GEOID12B_Height | ONUS_GEOID12B_Height",GEOGCS["GCS_NA | AVD88_CONUS_GEOID12B_Height",SOURCECRS[V |
| | | D_1983_2011",DATUM["D_NAD_1983_2011" | ERTCRS["NAD_1983_2011",DYNAMIC[FRAMEEPO |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | CH[2010.0],MODEL["HTDP"]],DATUM["D_NAD_19 |
| | | 22101]],PRIMEM["Greenwich",0.0],UNIT["De | 83_2011",ELLIPSOID["GRS_1980",6378137.0,298.2 |
| | | gree",0.0174532925199433]],VERTCS["NAD_ | 57222101,LENGTHUNIT["Meter",1.0]]],CS[vertical, |
| | | 1983_2011",DATUM["D_NAD_1983_2011",S | 1],AXIS["Ellipsoidal height |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ty-related height |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | RAMETER["Dataset_g2012bu0",0.0],OPERATI | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | ONACCURACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 6327 | NAD_1983_2011_To_NAVD88_Alaska | VERTTRAN["NAD_1983_2011_To_NAVD88_A | COORDINATEOPERATION["NAD_1983_2011_To_N |
| | _GEOID12B_Height | laska_GEOID12B_Height",GEOGCS["GCS_NAD | AVD88_Alaska_GEOID12B_Height",SOURCECRS[VE |
| | | _1983_2011",DATUM["D_NAD_1983_2011", | RTCRS["NAD_1983_2011",DYNAMIC[FRAMEEPOC |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | H[2010.0],MODEL["HTDP"]],DATUM["D_NAD_198 |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | 3_2011",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | ee",0.0174532925199433]],VERTCS["NAD_19 | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | 83_2011",DATUM["D_NAD_1983_2011",SPH |],AXIS["Ellipsoidal height |
| | | EROID["GRS_1980",6378137.0,298.25722210 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 1]],PARAMETER["Vertical_Shift",0.0],PARAME | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VERT | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | CS["NAVD_1988",VDATUM["North_American | ty-related height |
| | | _Vertical_Datum_1988"],PARAMETER["Vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | AMETER["Dataset_g2012ba0",0.0],OPERATIO | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | NACCURACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| 6600 | ICD2000 continut (beints) to ICD201 | VEDTERANING DOOD | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |
| 6699 | JGD2000_vertical_(height)_to_JGD201 | VERTTRAN["JGD2000_vertical_(height)_to_JG | COORDINATEOPERATION["JGD2000_vertical_(heig |
| | 1_(vertical)_height_1 | D2011_(vertical)_height_1",VERTCS["JGD200 | ht)_to_JGD2011_(vertical)_height_1",SOURCECRS[|
| | | 0_vertical_height",VDATUM["Japanese_Geod etic_Datum_2000_vertical"],PARAMETER["Ve | VERTCRS["JGD2000_vertical_height",VDATUM["Ja panese_Geodetic_Datum_2000_vertical"],CS[verti |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | cal,1],AXIS["Gravity-related height |
| | | ,UNIT["Meter",1.0]],VERTCS["JGD2011_vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | al_height",VDATUM["Japanese_Geodetic_Da | VERTCRS["JGD2011_vertical_height",VDATUM["Ja |
| | | tum_2011_vertical"],PARAMETER["Vertical_S | panese_Geodetic_Datum_2011_vertical"],CS[verti |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | cal,1],AXIS["Gravity-related height |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset"],P | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve |
| | | ARAMETER["Vertical_Offset",0.0],OPERATIO | rtical_Offset"],PARAMETER["Vertical_Offset",0.0,L |
| | | NACCURACY[0.01]] | ENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[|
| | | TWICCOINCI[0.01]] | 0.01]] |
| | | | 0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 7646 | NAD_1983_2011_To_PRVD02_GEOID | VERTTRAN["NAD_1983_2011_To_PRVD02_G | COORDINATEOPERATION["NAD_1983_2011_To_P |
| | 12B_Height | EOID12B_Height",GEOGCS["GCS_NAD_1983_ | RVD02_GEOID12B_Height",SOURCECRS[VERTCRS[|
| | | 2011",DATUM["D_NAD_1983_2011",SPHERO | "NAD_1983_2011",DYNAMIC[FRAMEEPOCH[2010. |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | 0],MODEL["HTDP"]],DATUM["D_NAD_1983_2011" |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | ,ELLIPSOID["GRS_1980",6378137.0,298.25722210 |
| | | 74532925199433]],VERTCS["NAD_1983_2011 | 1,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS[" |
| | | ",DATUM["D_NAD_1983_2011",SPHEROID[" | Ellipsoidal height |
| | | GRS_1980",6378137.0,298.257222101]],PAR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ERTCRS["PRVD02_height",VDATUM["Puerto_Rico_ |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["PR | Vertical_Datum_of_2002"],CS[vertical,1],AXIS["Gr |
| | | VD02_height",VDATUM["Puerto_Rico_Vertic | avity-related height |
| | | al_Datum_of_2002"],PARAMETER["Vertical_S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | ER["Dataset_g2012bp0",0.0],OPERATIONACC | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | URACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bp0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 7647 | NAD_1983_2011_To_VIVD09_GEOID1 | VERTTRAN["NAD_1983_2011_To_VIVD09_GE | COORDINATEOPERATION["NAD_1983_2011_To_V |
| | 2B_Height | OID12B_Height",GEOGCS["GCS_NAD_1983_2 | IVD09_GEOID12B_Height",SOURCECRS[VERTCRS[" |
| | | 011",DATUM["D_NAD_1983_2011",SPHEROI | NAD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0 |
| | | D["GRS_1980",6378137.0,298.257222101]],P |],MODEL["HTDP"]],DATUM["D_NAD_1983_2011", |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | 74532925199433]],VERTCS["NAD_1983_2011 | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | ",DATUM["D_NAD_1983_2011",SPHEROID[" | llipsoidal height |
| | | GRS_1980",6378137.0,298.257222101]],PAR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ERTCRS["VIVD09_height",VDATUM["Virgin_Islands |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["VI | _Vertical_Datum_of_2009"],CS[vertical,1],AXIS["G |
| | | VD09_height",VDATUM["Virgin_Islands_Verti | ravity-related height |
| | | cal_Datum_of_2009"],PARAMETER["Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | "Meter",1.0]],VTMETHOD["GEOID"],PARAME | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | TER["Dataset_g2012bp0",0.0],OPERATIONAC | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | CURACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bp0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------|----------------------------------------------|---------------------------------------------------|
| 7648 | NAD_1983_MA11_To_GUVD04_GEOI | VERTTRAN["NAD_1983_MA11_To_GUVD04_ | COORDINATEOPERATION["NAD_1983_MA11_To_ |
| | D12B_Height | GEOID12B_Height",GEOGCS["GCS_NAD_1983 | GUVD04_GEOID12B_Height",SOURCECRS[VERTCR |
| | | _MA11",DATUM["D_NAD_1983_MA11",SPHE | S["NAD_1983_MA11",DYNAMIC[FRAMEEPOCH[20 |
| | | ROID["GRS_1980",6378137.0,298.257222101 | 12.4467],MODEL["HTDP"]],DATUM["D_NAD_1983 |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | _MA11",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 0.0174532925199433]],VERTCS["NAD_1983_ | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE |],AXIS["Ellipsoidal height |
| | | ROID["GRS_1980",6378137.0,298.257222101 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | |]],PARAMETER["Vertical_Shift",0.0],PARAMET | ERTCRS["GUVD04_height",VDATUM["Guam_Verti |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | cal_Datum_of_2004"],CS[vertical,1],AXIS["Gravity- |
| | | S["GUVD04_height",VDATUM["Guam_Vertica | related height |
| | | I_Datum_of_2004"],PARAMETER["Vertical_S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_MA11",DYNA |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | ER["Dataset_g2012bg0",0.0],OPERATIONACC | DATUM["D_NAD_1983_MA11",ELLIPSOID["GRS_1 |
| | | URACY[0.017]] | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | | AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bg0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------|----------------------------------------------|--------------------------------------------------|
| 7649 | NAD_1983_MA11_To_NMVD03_GEOI | VERTTRAN["NAD_1983_MA11_To_NMVD03_ | COORDINATEOPERATION["NAD_1983_MA11_To_ |
| | D12B_Height | GEOID12B_Height",GEOGCS["GCS_NAD_1983 | NMVD03_GEOID12B_Height",SOURCECRS[VERTCR |
| | | _MA11",DATUM["D_NAD_1983_MA11",SPHE | S["NAD_1983_MA11",DYNAMIC[FRAMEEPOCH[20 |
| | | ROID["GRS_1980",6378137.0,298.257222101 | 12.4467],MODEL["HTDP"]],DATUM["D_NAD_1983 |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | _MA11",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 0.0174532925199433]],VERTCS["NAD_1983_ | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE |],AXIS["Ellipsoidal height |
| | | ROID["GRS_1980",6378137.0,298.257222101 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | |]],PARAMETER["Vertical_Shift",0.0],PARAMET | ERTCRS["NMVD03_height",VDATUM["Northern_ |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | Marianas_Vertical_Datum_of_2003"],CS[vertical,1 |
| | | S["NMVD03_height",VDATUM["Northern_Ma |],AXIS["Gravity-related height |
| | | rianas_Vertical_Datum_of_2003"],PARAMET | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ONCRS[GEOGCRS["GCS_NAD_1983_MA11",DYNA |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | OID"],PARAMETER["Dataset_g2012bg0",0.0], | DATUM["D_NAD_1983_MA11",ELLIPSOID["GRS_1 |
| | | OPERATIONACCURACY[0.017]] | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | | AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bg0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7650 | NAD_1983_PA11_To_ASVD02_GEOID 12B_Height | VERTTRAN["NAD_1983_PA11_To_ASVD02_G EOID12B_Height",GEOGCS["GCS_NAD_1983_ PA11",DATUM["D_NAD_1983_PA11",SPHER OID["GRS_1980",6378137.0,298.257222101]] ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. 0174532925199433]],VERTCS["NAD_1983_P A11",DATUM["D_NAD_1983_PA11",SPHEROI D["GRS_1980",6378137.0,298.257222101]],P | COORDINATEOPERATION["NAD_1983_PA11_To_A SVD02_GEOID12B_Height",SOURCECRS[VERTCRS["NAD_1983_PA11",DYNAMIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]],DATUM["D_NAD_1983_P A11",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],A XIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[V |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS[" ASVD02_height",VDATUM["American_Samoa _Vertical_Datum_of_2002"],PARAMETER["Ve rtical_Shift",0.0],PARAMETER["Direction",1.0] ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA RAMETER["Dataset_g2012bs0",0.0],OPERATI ONACCURACY[0.017]] | ERTCRS["ASVD02_height",VDATUM["American_Sa moa_Vertical_Datum_of_2002"],CS[vertical,1],AXI S["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_NAD_1983_PA11",DYNA MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], DATUM["D_NAD_1983_PA11",ELLIPSOID["GRS_19 80",6378137.0,298.257222101,LENGTHUNIT["Met er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" Degree",0.0174532925199433]],CS[ellipsoidal,2],A XIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE |
| 7653 | EGM96_height_To_Kumul_34_height_ 1 | VERTTRAN["EGM96_height_To_Kumul_34_h eight_1",VERTCS["EGM96_Geoid",VDATUM[" EGM96_Geoid"],PARAMETER["Vertical_Shift" ,0.0],PARAMETER["Direction",1.0],UNIT["Met er",1.0]],VERTCS["Kumul_34_(height)",VDAT UM["Kumul_34"],PARAMETER["Vertical_Shift ",0.0],PARAMETER["Direction",1.0],UNIT["Me ter",1.0]],VTMETHOD["Vertical_Offset"],PAR AMETER["Vertical_Offset",-0.87],OPERATIONACCURACY[0.0]] | RFILE["g2012bs0"],OPERATIONACCURACY[0.017]] COORDINATEOPERATION["EGM96_height_To_Ku mul_34_height_1",SOURCECRS[VERTCRS["EGM96 _Geoid"],CS[vertical,1], AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Kumul_34_(height)",VDATUM["Kumul_34"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.87,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7654 | EGM2008_height_To_Kiunga_height_ 1 | VERTTRAN["EGM2008_height_To_Kiunga_height_1",VERTCS["EGM2008_Geoid",VDATUM["EGM2008_Geoid"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VERTCS["Kiunga_(height)",VDAT UM["Kiunga"],PARAMETER["Vertical_Shift",0. 0],PARAMETER["Direction",1.0],UNIT["Meter ",1.0]],VTMETHOD["Vertical_Offset"],PARAM ETER["Vertical_Offset",- 3.0],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["EGM2008_height_To_K iunga_height_1",SOURCECRS[VERTCRS["EGM2008 _Geoid",VDATUM["EGM2008_Geoid"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Kiunga_(height)",VDATUM["Kiunga"],CS [vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-3.0,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR |
| 7655 | PNG94_To_PNG08_Height_1 | VERTTRAN["PNG94_To_PNG08_Height_1",GE OGCS["GCS_PNG94",DATUM["D_Papua_New _Guinea_Geodetic_Datum_1994",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRI MEM["Greenwich",0.0],UNIT["Degree",0.017 4532925199433]],VERTCS["PNG94",DATUM[" D_Papua_New_Guinea_Geodetic_Datum_19 94",SPHEROID["GRS_1980",6378137.0,298.2 57222101]],PARAMETER["Vertical_Shift",0.0], PARAMETER["Direction",1.0],UNIT["Meter",1 .0]],VERTCS["PNG08_(height)",VDATUM["Pap ua_New_Guinea_2008"],PARAMETER["Vertic al_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR AMETER["Dataset_PNG08",0.0],OPERATIONA CCURACY[0.2]] | ACY[0.0]] COORDINATEOPERATION["PNG94_To_PNG08_Height_1",SOURCECRS[VERTCRS["PNG94",DATUM["D_Papua_New_Guinea_Geodetic_Datum_1994",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["PNG08_(height)",VDATUM["Papua_New_Guinea_2008"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_PNG94",DATUM["D_Papua_New_Guinea_Geodetic_Datum_1994",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["PNG08"],OPERATIONACCURACY[0.2]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|---------------------------------------------|--------------------------------------------------|
| 7701 | Latvia_2000_height_To_EVRF2007_he | VERTTRAN["Latvia_2000_height_To_EVRF200 | COORDINATEOPERATION["Latvia_2000_height_To |
| | ight_1 | 7_height_1",GEOGCS["GCS_ETRS_1989",DAT | _EVRF2007_height_1",SOURCECRS[VERTCRS["Latv |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | ia_2000_(height)",VDATUM["Latvian_Height_Syst |
| | | 378137.0,298.257222101]],PRIMEM["Green | em_2000"],CS[vertical,1],AXIS["Gravity-related |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | height |
| | | 33]],VERTCS["Latvia_2000_(height)",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | M["Latvian_Height_System_2000"],PARAMET | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | on",1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2 | Gravity-related height |
| | | 007",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2007"],PARAMETER["Vertical_Shift | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ter",1.0]],VTMETHOD["Vertical_Offset_and_S | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | lope"],PARAMETER["Vertical_Offset",0.003],P | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ARAMETER["Longitude_Of_Evaluation",24.88 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 333333333333],PARAMETER["Latitude_Of_E | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | valuation",56.96666666666667],PARAMETER | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ["Inclination_North",0.0],PARAMETER["Inclin | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | ation_East",0.0073999999999999],OPERATI | _Slope"],PARAMETER["Vertical_Offset",0.003,LEN |
| | | ONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",24.88333333333333,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",56.966666666666667,ANGLE |
| | | | UNIT["Degree",0.0174532925199433]],PARAMETE |
| | | | R["Inclination_North",0.0,ANGLEUNIT["Arcsecond |
| | | | ",0.00000484813681109536]],PARAMETER["Inclin |
| | | | ation_East",0.00739999999999999,ANGLEUNIT["A |
| | | | rcsecond",0.00000484813681109536]],OPERATIO |
| | | | NACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|--------------------------------------------|-----------------------------------------------------|
| 7711 | ETRS89_To_Newlyn_Height_2_OSGM | VERTTRAN["ETRS89_To_Newlyn_Height_2_O | COORDINATEOPERATION["ETRS89_To_Newlyn_H |
| | 15 | SGM15",GEOGCS["GCS_ETRS_1989",DATUM[| eight_2_OSGM15",SOURCECRS[VERTCRS["ETRS_1 |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | 989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_19 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["ETRS_1989",DATUM["D_ETRS_1989 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ERTCRS["Newlyn",VDATUM["Ordnance_Datum_N |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | ewlyn"],CS[vertical,1],AXIS["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0]],VERTCS["Newlyn",VDATUM["Ordnance_D | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | atum_Newlyn"],PARAMETER["Vertical_Shift", | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | er",1.0]],VTMETHOD["GEOID"],PARAMETER[" | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Interpolation_Type",20.0],PARAMETER["Data | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | set_OSGM15_Great_Britain",0.0],OPERATION | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ACCURACY[0.008]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.008]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|--------------------------------------------------|
| 7712 | ETRS89_To_ODN_Orkney_Height_2_O | VERTTRAN["ETRS89_To_ODN_Orkney_Height | COORDINATEOPERATION["ETRS89_To_ODN_Orkn |
| | SGM15 | _2_OSGM15",GEOGCS["GCS_ETRS_1989",DA | ey_Height_2_OSGM15",SOURCECRS[VERTCRS["ET |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | RS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GR |
| | | 6378137.0,298.257222101]],PRIMEM["Green | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | wich",0.0],UNIT["Degree",0.01745329251994 | "Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 33]],VERTCS["ETRS_1989",DATUM["D_ETRS_ | height |
| | | 1989",SPHEROID["GRS_1980",6378137.0,298 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | ERTCRS["Newlyn_Orkney_Isles",VDATUM["Ordna |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | nce_Datum_Newlyn_Orkney_Isles"],CS[vertical,1], |
| | | ",1.0]],VERTCS["Newlyn_Orkney_Isles",VDAT | AXIS["Gravity-related height |
| | | UM["Ordnance_Datum_Newlyn_Orkney_Isle | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | s"],PARAMETER["Vertical_Shift",0.0],PARAME | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ETHOD["GEOID"],PARAMETER["Interpolation | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | _Type",20.0],PARAMETER["Dataset_OSGM15 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _Great_Britain",0.0],OPERATIONACCURACY[0 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | .017]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|--------------------------------------------------|
| 7713 | ETRS89_To_ODN_Offhore_Height_1_ | VERTTRAN["ETRS89_To_ODN_Offhore_Heigh | COORDINATEOPERATION["ETRS89_To_ODN_Offh |
| | OSGM15 | t_1_OSGM15",GEOGCS["GCS_ETRS_1989",D | ore_Height_1_OSGM15",SOURCECRS[VERTCRS["E |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | TRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["G |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | ["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 433]],VERTCS["ETRS_1989",DATUM["D_ETRS | height |
| | | _1989",SPHEROID["GRS_1980",6378137.0,29 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | ERTCRS["ODN_(Offshore)_(height)",VDATUM["Or |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | dnance_Datum_Newlyn_(Offshore)"],CS[vertical,1 |
| | | ",1.0]],VERTCS["ODN_(Offshore)_(height)",V |],AXIS["Gravity-related height |
| | | DATUM["Ordnance_Datum_Newlyn_(Offshor | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e)"],PARAMETER["Vertical_Shift",0.0],PARAM | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VT | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | METHOD["GEOID"],PARAMETER["Interpolatio | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | n_Type",20.0],PARAMETER["Dataset_OSGM1 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 5_Great_Britain",0.0],OPERATIONACCURACY[| 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|--------------------------------------------|----------------------------------------------------|
| 7714 | ETRS89_To_Lerwick_Height_2_OSGM | VERTTRAN["ETRS89_To_Lerwick_Height_2_O | COORDINATEOPERATION["ETRS89_To_Lerwick_H |
| | 15 | SGM15",GEOGCS["GCS_ETRS_1989",DATUM[| eight_2_OSGM15",SOURCECRS[VERTCRS["ETRS_1 |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | 989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_19 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["ETRS_1989",DATUM["D_ETRS_1989 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ERTCRS["Lerwick",VDATUM["Lerwick"],CS[vertical, |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | 1],AXIS["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0]],VERTCS["Lerwick",VDATUM["Lerwick"],PA | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Direction",1.0],UNIT["Meter",1.0]],VTMETHO | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | D["GEOID"],PARAMETER["Interpolation_Type | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ",20.0],PARAMETER["Dataset_OSGM15_Grea | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | t_Britain",0.0],OPERATIONACCURACY[0.018]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.018]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|-------------------------------------------------------|
| 7715 | ETRS89_To_Stornoway_Height_2_OS | VERTTRAN["ETRS89_To_Stornoway_Height_2 | COORDINATEOPERATION["ETRS89_To_Stornoway |
| | GM15 | _OSGM15",GEOGCS["GCS_ETRS_1989",DATU | _Height_2_OSGM15",SOURCECRS[VERTCRS["ETRS |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | _1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_ |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |]],VERTCS["ETRS_1989",DATUM["D_ETRS_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 89",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["Stornoway",VDATUM["Stornoway"],CS[v |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ertical,1],AXIS["Gravity-related height |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0]],VERTCS["Stornoway",VDATUM["Stornow | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ay"],PARAMETER["Vertical_Shift",0.0],PARA | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TMETHOD["GEOID"],PARAMETER["Interpolati | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | on_Type",20.0],PARAMETER["Dataset_OSGM | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 15_Great_Britain",0.0],OPERATIONACCURAC | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Y[0.011]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.011]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|------------------------------------------------------|
| 7716 | ETRS89_To_St_Marys_Height_2_OSG | VERTTRAN["ETRS89_To_St_Marys_Height_2_ | COORDINATEOPERATION["ETRS89_To_St_Marys_ |
| | M15 | OSGM15",GEOGCS["GCS_ETRS_1989",DATU | Height_2_OSGM15",SOURCECRS[VERTCRS["ETRS_ |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | 1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1 |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |]],VERTCS["ETRS_1989",DATUM["D_ETRS_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 89",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["St_Marys",VDATUM["St_Marys"],CS[verti |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | cal,1],AXIS["Gravity-related height |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0]],VERTCS["St_Marys",VDATUM["St_Marys" | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | |],PARAMETER["Vertical_Shift",0.0],PARAMET | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VTME | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | THOD["GEOID"],PARAMETER["Interpolation_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Type",20.0],PARAMETER["Dataset_OSGM15_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Great_Britain",0.0],OPERATIONACCURACY[0. | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 01]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|--------------------------------------------|----------------------------------------------------|
| 7717 | ETRS89_To_Douglas_Height_2_OSGM | VERTTRAN["ETRS89_To_Douglas_Height_2_O | COORDINATEOPERATION["ETRS89_To_Douglas_H |
| | 15 | SGM15",GEOGCS["GCS_ETRS_1989",DATUM[| eight_2_OSGM15",SOURCECRS[VERTCRS["ETRS_1 |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | 989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_19 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["ETRS_1989",DATUM["D_ETRS_1989 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ERTCRS["Douglas",VDATUM["Douglas"],CS[vertical |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | ,1],AXIS["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0]],VERTCS["Douglas",VDATUM["Douglas"],P | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | "Direction",1.0],UNIT["Meter",1.0]],VTMETH | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | OD["GEOID"],PARAMETER["Interpolation_Ty | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | pe",20.0],PARAMETER["Dataset_OSGM15_Gr | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | eat_Britain",0.0],OPERATIONACCURACY[0.03] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | |] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 7838 | DHHN2016_(height)_To_EVRF_2007_(| VERTTRAN["DHHN2016_(height)_To_EVRF_2 | COORDINATEOPERATION["DHHN2016_(height)_T |
| | height)_1 | 007_(height)_1",GEOGCS["GCS_ETRS_1989", | o_EVRF_2007_(height)_1",SOURCECRS[VERTCRS[" |
| | | DATUM["D_ETRS_1989",SPHEROID["GRS_19 | DHHN2016_(height)",VDATUM["Deutsches_Haupt |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | hoehennetz_2016"],CS[vertical,1],AXIS["Gravity- |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | related height |
| | | 99433]],VERTCS["DHHN2016_(height)",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | UM["Deutsches_Haupthoehennetz_2016"],P | VERTCRS["EVRF_2007",VDATUM["European_Verti |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| cal_Reference_Frame_2007"],CS[vertical,1],AXIS[" |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | Gravity-related height |
| | | EVRF_2007",VDATUM["European_Vertical_R | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | eference_Frame_2007"],PARAMETER["Vertic | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_and_Slope"],PARAMETER["Vertical_Offset | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ",0.014],PARAMETER["Longitude_Of_Evaluati | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | on",10.21666666666667],PARAMETER["Latit | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ude_Of_Evaluation",51.05],PARAMETER["Incl | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | ination_North",- | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 0.01],PARAMETER["Inclination_East",0.0],OP | _Slope"],PARAMETER["Vertical_Offset",0.014,LEN |
| | | ERATIONACCURACY[0.1]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",10.2166666666667,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],PARAMETER["Lati |
| | | | tude_Of_Evaluation",51.05,ANGLEUNIT["Degree", |
| | | | 0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",- |
| | | | 0.01,ANGLEUNIT["Arcsecond",0.00000484813681 |
| | | | 109536]],PARAMETER["Inclination_East",0.0,ANGL |
| | | | EUNIT["Arcsecond",0.00000484813681109536]],O |
| | | | PERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7860 | NZVD2016_Height_To_Auckland_1946 _Height_1 | VERTTRAN["NZVD2016_Height_To_Auckland _1946_Height_1",GEOGCS["GCS_NZGD_2000",DATUM["D_NZGD_2000",SPHEROID["GRS_ 1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.017453292 5199433]],VERTCS["NZVD2016_height",VDAT UM["New_Zealand_Vertical_Datum_2016"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Auckland",VDATUM["Auckland"],PARAMETER ["Vertical_Shift",0.0],PARAMETER ["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID "],PARAMETER["Dataset_auckland_1946_to_nzvd2016",0.0],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["NZVD2016_Height_To_Auckland_1946_Height_1",SOURCECRS[VERTCRS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Auckland",VDATUM["Auckland"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERILE["auckland_1946_to_nzvd2016"],OPERATIONACCURACY[0.02]] |
| 7861 | NZVD2016_Height_To_Bluff_1955_He ight_1 | VERTTRAN["NZVD2016_Height_To_Bluff_195 5_Height_1",GEOGCS["GCS_NZGD_2000",DA TUM["D_NZGD_2000",SPHEROID["GRS_1980 ",6378137.0,298.257222101]],PRIMEM["Gree nwich",0.0],UNIT["Degree",0.0174532925199 433]],VERTCS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],PARA METER["Vertical_Shift",0.0],PARAMETER["Dir ection",1.0],UNIT["Meter",1.0]],VERTCS["Bluff",VDATUM["Bluff"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Urection",1.0],UNIT[" Meter",1.0]],VTMETHOD["GEOID"],PARAMET ER["Dataset_bluff_1955_to_nzvd2016",0.0], OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["NZVD2016_Height_To_Bluff_1955_Height_1",SOURCECRS[VERTCRS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-relatedheight(H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Bluff",VDATUM["Bluff"],CS[vertical,1],AXIS["Gravity-relatedheight(H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude(lat)",north,ORDER[1]],AXIS["Longitude(lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["bluff_1955_to_nzvd2016"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|------------------------------------------------|
| 7862 | NZVD2016_Height_To_Dunedin_1958 | VERTTRAN["NZVD2016_Height_To_Dunedin_ | COORDINATEOPERATION["NZVD2016_Height_To_ |
| | _Height_1 | 1958_Height_1",GEOGCS["GCS_NZGD_2000", | Dunedin_1958_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["D_NZGD_2000",SPHEROID["GRS_19 | NZVD2016_height",VDATUM["New_Zealand_Verti |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | cal_Datum_2016"],CS[vertical,1],AXIS["Gravity- |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | related height |
| | | 99433]],VERTCS["NZVD2016_height",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | M["New_Zealand_Vertical_Datum_2016"],PA | VERTCRS["Dunedin",VDATUM["Dunedin"],CS[verti |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | cal,1],AXIS["Gravity-related height |
| | | Direction",1.0],UNIT["Meter",1.0]],VERTCS["D | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | unedin",VDATUM["Dunedin"],PARAMETER[" | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | PARAMETER["Dataset_dunedin_1958_to_nzv | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | d2016",0.0],OPERATIONACCURACY[0.02]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["dunedin_1958_to_nzvd2016"],OPERATION |
| | | | ACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------|----------------------------------------------|---------------------------------------------------|
| 7863 | NZVD2016_Height_To_Dunedin- | VERTTRAN["NZVD2016_Height_To_Dunedin- | COORDINATEOPERATION["NZVD2016_Height_To_ |
| | Bluff_1960_Height_1 | Bluff_1960_Height_1",GEOGCS["GCS_NZGD_ | Dunedin- |
| | | 2000",DATUM["D_NZGD_2000",SPHEROID[" | Bluff_1960_Height_1",SOURCECRS[VERTCRS["NZV |
| | | GRS_1980",6378137.0,298.257222101]],PRI | D2016_height",VDATUM["New_Zealand_Vertical_ |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | Datum_2016"],CS[vertical,1],AXIS["Gravity-related |
| | | 4532925199433]],VERTCS["NZVD2016_height | height |
| | | ",VDATUM["New_Zealand_Vertical_Datum_2 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 016"],PARAMETER["Vertical_Shift",0.0],PARA | VERTCRS["Dunedin_Bluff_1960_height",VDATUM[|
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | "Dunedin_Bluff_1960"],CS[vertical,1],AXIS["Gravit |
| | | ERTCS["Dunedin_Bluff_1960_height",VDATU | y-related height |
| | | M["Dunedin_Bluff_1960"],PARAMETER["Vert | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | RAMETER["Dataset_Dunedin- | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | Bluff_1960_to_nzvd2016",0.0],OPERATIONAC | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | CURACY[0.02]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["Dunedin- |
| | | | Bluff_1960_to_nzvd2016"],OPERATIONACCURACY |
| | | | [0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WKID 7864 | Name NZVD2016_Height_To_Gisborne_1926 _Height_1 | WKT1 VERTTRAN["NZVD2016_Height_To_Gisborne _1926_Height_1",GEOGCS["GCS_NZGD_2000 ",DATUM["D_NZGD_2000",SPHEROID["GRS_ 1980",6378137.0,298.257222101]],PRIMEM[" Greenwich",0.0],UNIT["Degree",0.017453292 5199433]],VERTCS["NZVD2016_height",VDAT UM["New_Zealand_Vertical_Datum_2016"],P ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS[" Gisborne",VDATUM["Gisborne"],PARAMETER ["Vertical_Shift",0.0],PARAMETER["Direction" ,1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID "],PARAMETER["Dataset_gisborne_1926_to_ nzvd2016",0.0],OPERATIONACCURACY[0.02]] | WKT2 COORDINATEOPERATION["NZVD2016_Height_To_ Gisborne_1926_Height_1",SOURCECRS[VERTCRS[" NZVD2016_height",VDATUM["New_Zealand_Verti cal_Datum_2016"],CS[vertical,1],AXIS["Gravity- related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Gisborne",VDATUM["Gisborne"],CS[vert ical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 32925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["gisborne_1926_to_nzvd2016"],OPERATION ACCURACY[0.02]] |
| 7865 | NZVD2016_Height_To_Lyttelton_1937 _Height_1 | VERTTRAN["NZVD2016_Height_To_Lyttelton _1937_Height_1",GEOGCS["GCS_NZGD_2000",DATUM["D_NZGD_2000",SPHEROID["GRS_ 1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.017453292 5199433]],VERTCS["NZVD2016_height",VDAT UM["New_Zealand_Vertical_Datum_2016"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Lyttelton",VDATUM["Lyttelton"],PARAMETER ["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID "],PARAMETER["Dataset_lyttelton_1937_to_nzvd2016",0.0],OPERATIONACCURACY[0.01]] | COORDINATEOPERATION["NZVD2016_Height_To_Lyttelton_1937_Height_1",SOURCECRS[VERTCRS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Lyttelton",VDATUM["Lyttelton"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude(lat)",north,ORDER[1]],AXIS["Longitude(lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["lyttelton_1937_to_nzvd2016"],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7866 | NZVD2016_Height_To_Moturiki_1953 _Height_1 | VERTTRAN["NZVD2016_Height_To_Moturiki_ 1953_Height_1",GEOGCS["GCS_NZGD_2000", DATUM["D_NZGD_2000",SPHEROID["GRS_19 80",6378137.0,298.257222101]],PRIMEM["Gr eenwich",0.0],UNIT["Degree",0.01745329251 99433]],VERTCS["NZVD2016_height",VDATU M["New_Zealand_Vertical_Datum_2016"],PA RAMETER["Vertical_Shift",0.0],PARAMETER[" Direction",1.0],UNIT["Meter",1.0]],VERTCS[" Moturiki",VDATUM["Moturiki"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction", 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_moturiki_1953_to_n zvd2016",0.0],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["NZVD2016_Height_To_Moturiki_1953_Height_1",SOURCECRS[VERTCRS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Moturiki",VDATUM["Moturiki"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERILE["moturiki_1953_to_nzvd2016"],OPERATIONACCURACY[0.02]] |
| 7867 | NZVD2016_Height_To_Napier_1962_ Height_1 | VERTTRAN["NZVD2016_Height_To_Napier_1 962_Height_1",GEOGCS["GCS_NZGD_2000", DATUM["D_NZGD_2000",SPHEROID["GRS_19 80",6378137.0,298.257222101]],PRIMEM["Gr eenwich",0.0],UNIT["Degree",0.01745329251 99433]],VERTCS["NZVD2016_height",VDATU M["New_Zealand_Vertical_Datum_2016"],PA RAMETER["Vertical_Shift",0.0],PARAMETER[" Direction",1.0],UNIT["Meter",1.0]],VERTCS[" Napier",VDATUM["Napier"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA RAMETER["Dataset_napier_1962_to_nzvd20 16",0.0],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["NZVD2016_Height_To_Napier_1962_Height_1",SOURCECRS[VERTCRS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Napier",VDATUM["Napier"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["napier_1962_to_nzvd2016"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7868 | NZVD2016_Height_To_Nelson_1955_ Height_1 | VERTTRAN["NZVD2016_Height_To_Nelson_1 955_Height_1",GEOGCS["GCS_NZGD_2000", DATUM["D_NZGD_2000",SPHEROID["GRS_19 80",6378137.0,298.257222101]],PRIMEM["Gr eenwich",0.0],UNIT["Degree",0.01745329251 99433]],VERTCS["NZVD2016_height",VDATU M["New_Zealand_Vertical_Datum_2016"],PA RAMETER["Vertical_Shift",0.0],PARAMETER[" Direction",1.0],UNIT["Meter",1.0]],VERTCS[" Nelson",VDATUM["Nelson"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA RAMETER["Dataset_nelson_1955_to_nzvd20 16",0.0],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["NZVD2016_Height_To_Nelson_1955_Height_1",SOURCECRS[VERTCRS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Nelson",VDATUM["Nelson"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERILE["nelson_1955_to_nzvd2016"],OPERATIONACCURACY[0.02]] |
| 7869 | NZVD2016_Height_To_One_Tree_Point_1964_Height_1 | VERTTRAN["NZVD2016_Height_To_One_Tree _Point_1964_Height_1",GEOGCS["GCS_NZGD _2000",DATUM["D_NZGD_2000",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRI MEM["Greenwich",0.0],UNIT["Degree",0.017 4532925199433]],VERTCS["NZVD2016_height ",VDATUM["New_Zealand_Vertical_Datum_2 016"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",1.0],UNIT["Meter",1.0]],V ERTCS["One_Tree_Point",VDATUM["One_Tree_Point"],PARAMETER["Vertical_Shift",0.0],P ARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_one_tree_point_1964_to_nzvd2016",0.0],OPERATIONACCURACY[0.01]] | COORDINATEOPERATION["NZVD2016_Height_To_One_Tree_Point_1964_Height_1",SOURCECRS[VERTCRS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["One_Tree_Point",VDATUM["One_Tree_Point"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERILE["one_tree_point_1964_to_nzvd2016"],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7870 | NZVD2016_Height_To_Stewart_Island _1977_Height_1 | VERTTRAN["NZVD2016_Height_To_Stewart_I sland_1977_Height_1",GEOGCS["GCS_NZGD_2000",DATUM["D_NZGD_2000",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRI MEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Stewart_Island",VDATUM["Stewart_Island"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_stewart_island_1977_to_nzvd2016",0.0],OPERATIONACCURACY[0.18]] | COORDINATEOPERATION["NZVD2016_Height_To_Stewart_Island_1977_Height_1",SOURCECRS[VER TCRS["NZVD2016_height",VDATUM["New_Zealan d_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gra vity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Stewart_Island",VDATUM["Stewart_Island"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIME M["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETE RFILE["stewart_island_1977_to_nzvd2016"],OPER ATIONACCURACY[0.18]] |
| 7871 | NZVD2016_Height_To_Taranaki_1970 _Height_1 | VERTTRAN["NZVD2016_Height_To_Taranaki_ 1970_Height_1",GEOGCS["GCS_NZGD_2000", DATUM["D_NZGD_2000",SPHEROID["GRS_19 80",6378137.0,298.257222101]],PRIMEM["Gr eenwich",0.0],UNIT["Degree",0.01745329251 99433]],VERTCS["NZVD2016_height",VDATU M["New_Zealand_Vertical_Datum_2016"],PA RAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["T aranaki",VDATUM["Taranaki"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_taranaki_1970_to_nzvd2016",0.0],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["NZVD2016_Height_To_ Taranaki_1970_Height_1",SOURCECRS[VERTCRS[" NZVD2016_height",VDATUM["New_Zealand_Verti cal_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Taranaki",VDATUM["Taranaki"],CS[verti cal,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 32925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["taranaki_1970_to_nzvd2016"],OPERATION ACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7872 | NZVD2016_Height_To_Wellington_19 53_Height_1 | VERTTRAN["NZVD2016_Height_To_Wellingto n_1953_Height_1",GEOGCS["GCS_NZGD_200 0",DATUM["D_NZGD_2000",SPHEROID["GRS _1980",6378137.0,298.257222101]],PRIMEM ["Greenwich",0.0],UNIT["Degree",0.0174532 925199433]],VERTCS["NZVD2016_height",VD ATUM["New_Zealand_Vertical_Datum_2016"],PARAMETER["Vertical_Shift",0.0],PARAMET ER["Direction",1.0],UNIT["Meter",1.0]],VERTC S["Wellington",VDATUM["Wellington"],PARA METER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD[" GEOID"],PARAMETER["Dataset_wellington_1 953_to_nzvd2016",0.0],OPERATIONACCURAC Y[0.02]] | COORDINATEOPERATION["NZVD2016_Height_To_Wellington_1953_Height_1",SOURCECRS[VERTCRS ["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Wellington",VDATUM["Wellington"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIME M["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETE RFILE["wellington_1953_to_nzvd2016"],OPERATIO NACCURACY[0.02]] |
| 7873 | EGM96_height_to_POM96_height_1 | VERTTRAN["EGM96_height_to_POM96_height_1",VERTCS["EGM96_Geoid",VDATUM["EGM96_Geoid",VDATUM["EGM96_Geoid"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["POM96_height",VDATUM["Port_Moresby_1996"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-1.58],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["EGM96_height_to_PO M96_height_1",SOURCECRS[VERTCRS["EGM96_G eoid",VDATUM["EGM96_Geoid"],CS[vertical,1],AX IS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["POM96_height",VDATUM["Port_Mores by_1996"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",-1.58,LENGTHUNIT["Meter",1.0]],OPERATIONACCU RACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7874 | EGM2008_height_to_POM08_height_ 1 | VERTTRAN["EGM2008_height_to_POM08_he ight_1",VERTCS["EGM2008_Geoid",VDATUM["EGM2008_Geoid"],PARAMETER["Vertical_Sh ift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VERTCS["POM08_height",VDAT UM["Port_Moresby_2008"],PARAMETER["Ve rtical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Of fset"],PARAMETER["Vertical_Offset",-0.93],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["EGM2008_height_to_P OM08_height_1",SOURCECRS[VERTCRS["EGM200 8_Geoid",VDATUM["EGM2008_Geoid"],CS[vertica I,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["POM08_height",VDATUM["Port_Mores by_2008"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",- 0.93,LENGTHUNIT["Meter",1.0]],OPERATIONACCU RACY[0.0]] |
| 7958 | ETRS89_To_Belfast_Height_2_OSGM1 5 | VERTTRAN["ETRS89_To_Belfast_Height_2_OS GM15",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Belfast",VDATUM["Belfast"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Interpolation_Type",20.0],PARAMETER["Dataset_OSGM15_Belfast",0.0],OPERATIONACCURACY[0.014]] | |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7959 | ETRS89_To_Malin_Head_Height_2_OS GM15 | VERTTRAN["ETRS89_To_Malin_Head_Height _2_OSGM15",GEOGCS["GCS_ETRS_1989",DA TUM["D_ETRS_1989",SPHEROID["GRS_1980", 6378137.0,298.257222101]],PRIMEM["Green wich",0.0],UNIT["Degree",0.01745329251994 33]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298 .257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter ",1.0]],VERTCS["Malin_Head",VDATUM["Malin_Head"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Inter polation_Type",20.0],PARAMETER["Dataset_OSGM15_Malin",0.0],OPERATIONACCURACY[0.023]] | COORDINATEOPERATION["ETRS89_To_Malin_Hea d_Height_2_OSGM15",SOURCECRS[VERTCRS["ETR S_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS _1980",6378137.0,298.257222101,LENGTHUNIT[" Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Malin_Head",VDATUM["Malin_Head"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE R["Interpolation_Type",20.0,SCALEUNIT["Unity",1.0]],PARAMETERFILE["OSGM15_Malin"],OPERATIO NACCURACY[0.023]] |
| 7964 | Poolbeg_height_(m)_To_Malin_Head_ height_1 | VERTTRAN["Poolbeg_height_(m)_To_Malin_ Head_height_1",VERTCS["Poolbeg_height_(m)",VDATUM["Poolbeg"],PARAMETER["Vertical _Shift",0.0],PARAMETER["Direction",1.0],UNI T["Meter",1.0]],VERTCS["Malin_Head",VDAT UM["Malin_Head"],PARAMETER["Vertical_Sh ift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VTMETHOD["Vertical_Offset"],P ARAMETER["Vertical_Offset",- 2.7],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Poolbeg_height_(m)_T o_Malin_Head_height_1",SOURCECRS[VERTCRS[" Poolbeg_height_(m)",VDATUM["Poolbeg"],CS[vert ical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Malin_Head",VDATUM["Malin_Head"], CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-2.7,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR ACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7966 | Poolbeg_height_(m)_To_Belfast_height_1 | VERTTRAN["Poolbeg_height_(m)_To_Belfast_height_1",VERTCS["Poolbeg_height_(m)",VD ATUM["Poolbeg"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["M eter",1.0]],VERTCS["Belfast",VDATUM["Belfast"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTM ETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-2.7],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Poolbeg_height_(m)_T o_Belfast_height_1",SOURCECRS[VERTCRS["Poolb eg_height_(m)",VDATUM["Poolbeg"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Belfast",VDATUM["Belfast"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-2.7,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.1]] |
| 7977 | HKPD_depth_To_HKCD_depth_1 | VERTTRAN["HKPD_depth_To_HKCD_depth_1 ",VERTCS["HKPD_depth",VDATUM["Hong_Ko ng_Principal_Datum"],PARAMETER["Vertical_ Shift",0.0],PARAMETER["Direction",- 1.0],UNIT["Meter",1.0]],VERTCS["Hong_Kong_Chart_Datum",VDATUM["Hong_Kong_Chart_Datum"],PARAMETER["Vertical_Shift",0.0],P ARAMETER["Direction",- 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",- 0.146],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["HKPD_depth_To_HKCD _depth_1",SOURCECRS[VERTCRS["HKPD_depth",V DATUM["Hong_Kong_Principal_Datum"],CS[vertic al,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR S[VERTCRS["Hong_Kong_Chart_Datum",VDATUM["Hong_Kong_Chart_Datum"],CS[vertical,1],AXIS[" Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.146,LENGTHUNIT["Meter",1.0]],OPERATIONACC URACY[0.0]] |
| 7980 | KOC_CD_height_To_KOC_WD_height_ 1 | VERTTRAN["KOC_CD_height_To_KOC_WD_h eight_1",VERTCS["KOC_Construction_Datum" ,VDATUM["KOC_Construction_Datum"],PARA METER["Vertical_Shift",0.0],PARAMETER["Dir ection",1.0],UNIT["Meter",1.0]],VERTCS["KOC _WD_height",VDATUM["KOC_Well_Datum"],PARAMETER["Vertical_Shift",0.0],PARAMETE R["Direction",1.0],UNIT["Meter",1.0]],VTMET HOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-4.74],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["KOC_CD_height_To_KO C_WD_height_1",SOURCECRS[VERTCRS["KOC_Con struction_Datum",VDATUM["KOC_Construction_D atum"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["KOC_WD_height",VDATUM["KOC_Well_Datum"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-4.74,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7981 | Kuwait_PWD_height_To_KOC_WD_he ight_1 | VERTTRAN["Kuwait_PWD_height_To_KOC_WD_height_1",VERTCS["Kuwait_PWD",VDATUM["Kuwait_PWD"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["KOC_WD_height",VDATUM["KOC_Well_Datum"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-4.25],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["Kuwait_PWD_height_T o_KOC_WD_height_1",SOURCECRS[VERTCRS["Ku wait_PWD",VDATUM["Kuwait_PWD"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["KOC_WD_height",VDATUM["KOC_Well_Datum"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-4.25,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.1]] |
| 8372 | RGF93_v2_To_NGF-IGN78_Height_RAC09_2 | VERTTRAN["RGF93_v2_To_NGF-IGN78_Height_RAC09_2",GEOGCS["RGF93_v2",DATUM["Reseau_Geodesique_Francais_1993_v2",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["RGF93_v2",DATUM["Reseau_Geodesique_Francais_1993_v2",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["NGF_IGN78",VDATUM["Nivellement_General_de_la_France_IGN78"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_RAC09",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["RGF93_v2_To_NGF-IGN78_Height_RAC09_2",SOURCECRS[VERTCRS["RGF93_v2",DATUM["Reseau_Geodesique_Francais_1993_v2",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["NGF_IGN78",VDATUM["Nivellement_General_de_la_France_IGN78"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["RGF93_v2",DATUM["Reseau_Geodesique_Francais_1993_v2",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["RAC09"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|---------------------------------------------------|
| 8451 | GDA2020_Height_To_AHD_Height_AU | VERTTRAN["GDA2020_Height_To_AHD_Heig | COORDINATEOPERATION["GDA2020_Height_To_A |
| | SGeoid2020_1 | ht_AUSGeoid2020_1",GEOGCS["GDA2020",D | HD_Height_AUSGeoid2020_1",SOURCECRS[VERTC |
| | | ATUM["GDA2020",SPHEROID["GRS_1980",63 | RS["GDA2020",DYNAMIC[FRAMEEPOCH[2020.0], |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | MODEL["GDA2020- |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | PMM"]],DATUM["GDA2020",ELLIPSOID["GRS_198 |
| | |]],VERTCS["GDA2020",DATUM["GDA2020",SP | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | HEROID["GRS_1980",6378137.0,298.2572221 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 01]],PARAMETER["Vertical_Shift",0.0],PARA | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | ERTCRS["AHD",VDATUM["Australian_Height_Datu |
| | | ERTCS["AHD",VDATUM["Australian_Height_D | m"],CS[vertical,1],AXIS["Gravity-related height |
| | | atum"],PARAMETER["Vertical_Shift",0.0],PAR | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | ONCRS[GEOGCRS["GDA2020",DYNAMIC[FRAMEEP |
| | | VTMETHOD["GEOID"],PARAMETER["Interpola | OCH[2020.0],MODEL["GDA2020- |
| | | tion_Type",40.0],PARAMETER["Dataset_AUS | PMM"]],DATUM["GDA2020",ELLIPSOID["GRS_198 |
| | | Geoid2020_windows_binary",0.0],OPERATIO | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | NACCURACY[0.03]] | r",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["D |
| | | | egree",0.0174532925199433]],CS[ellipsoidal,2],AX |
| | | | IS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["AUSGeoid2020_windows_bi |
| | | | nary"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------|----------------------------------------------|--------------------------------------------------|
| 8885 | RGF93_v2_To_NGF- | VERTTRAN["RGF93_v2_To_NGF- | COORDINATEOPERATION["RGF93_v2_To_NGF- |
| | IGN69_Height_RAF18_3 | IGN69_Height_RAF18_3",GEOGCS["RGF93_v | IGN69_Height_RAF18_3",SOURCECRS[VERTCRS["R |
| | | 2",DATUM["Reseau_Geodesique_Francais_1 | GF93_v2",DATUM["Reseau_Geodesique_Francais |
| | | 993_v2",SPHEROID["GRS_1980",6378137.0,2 | _1993_v2",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica |
| | | NIT["Degree",0.0174532925199433]],VERTCS | I,1],AXIS["Ellipsoidal height |
| | | ["RGF93_v2",DATUM["Reseau_Geodesique_F | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | rancais_1993_v2",SPHEROID["GRS_1980",63 | ERTCRS["NGF_IGN69",VDATUM["Nivellement_Ge |
| | | 78137.0,298.257222101]],PARAMETER["Verti | neral_de_la_France_IGN69"],CS[vertical,1],AXIS[" |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | Gravity-related height |
| | | NIT["Meter",1.0]],VERTCS["NGF_IGN69",VDA | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | TUM["Nivellement_General_de_la_France_I | ONCRS[GEOGCRS["RGF93_v2",DATUM["Reseau_G |
| | | GN69"],PARAMETER["Vertical_Shift",0.0],PAR | eodesique_Francais_1993_v2",ELLIPSOID["GRS_19 |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | RAF18",0.0],OPERATIONACCURACY[0.01]] | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RAF18"],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|-------------------------------------------------------|
| 9124 | ITRF_2008_Height_To_CGVD2013(CG | VERTTRAN["ITRF_2008_Height_To_CGVD201 | COORDINATEOPERATION["ITRF_2008_Height_To_ |
| | G2013)_Height_1 | 3(CGG2013)_Height_1",GEOGCS["GCS_ITRF_ | CGVD2013(CGG2013)_Height_1",SOURCECRS[VER |
| | | 2008",DATUM["D_ITRF_2008",SPHEROID["GR | TCRS["ITRF_2008",DYNAMIC[FRAMEEPOCH[2005. |
| | | S_1980",6378137.0,298.257222101]],PRIME | 0],MODEL["ITRF2008- |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | PMM"]],DATUM["D_ITRF_2008",ELLIPSOID["GRS_ |
| | | 2925199433]],VERTCS["ITRF_2008",DATUM[" | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | D_ITRF_2008",SPHEROID["GRS_1980",63781 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 37.0,298.257222101]],PARAMETER["Vertical_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| ERTCRS["CGVD2013_height",VDATUM["Canadian_ |
| | | "Meter",1.0]],VERTCS["CGVD2013_height",V | Geodetic_Vertical_Datum_of_2013"],CS[vertical,1 |
| | | DATUM["Canadian_Geodetic_Vertical_Datu |],AXIS["Gravity-related height |
| | | m_of_2013"],PARAMETER["Vertical_Shift",0. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | ONCRS[GEOGCRS["GCS_ITRF_2008",DYNAMIC[FR |
| | | ",1.0]],VTMETHOD["GEOID"],PARAMETER["In | AMEEPOCH[2005.0],MODEL["ITRF2008- |
| | | terpolation_Type",30.0],PARAMETER["Datase | PMM"]],DATUM["D_ITRF_2008",ELLIPSOID["GRS_ |
| | | t_CGG2013i08",0.0],OPERATIONACCURACY[0 | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | .03]] | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013i08"],OPERATIONA |
| | | | CCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|-------------------------------------------------------|
| 9125 | ITRF_2008_Height_To_CGVD2013(CG | VERTTRAN["ITRF_2008_Height_To_CGVD201 | COORDINATEOPERATION["ITRF_2008_Height_To_ |
| | G2013a)_Height_2 | 3(CGG2013a)_Height_2",GEOGCS["GCS_ITRF | CGVD2013(CGG2013a)_Height_2",SOURCECRS[VE |
| | | _2008",DATUM["D_ITRF_2008",SPHEROID["G | RTCRS["ITRF_2008",DYNAMIC[FRAMEEPOCH[2005 |
| | | RS_1980",6378137.0,298.257222101]],PRIME | .0],MODEL["ITRF2008- |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | PMM"]],DATUM["D_ITRF_2008",ELLIPSOID["GRS_ |
| | | 2925199433]],VERTCS["ITRF_2008",DATUM[" | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | D_ITRF_2008",SPHEROID["GRS_1980",63781 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 37.0,298.257222101]],PARAMETER["Vertical_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| ERTCRS["CGVD2013_CGG2013a_height",VDATUM |
| | | "Meter",1.0]],VERTCS["CGVD2013_CGG2013 | ["Canadian_Geodetic_Vertical_Datum_of_2013_C |
| | | a_height",VDATUM["Canadian_Geodetic_Ver | GG2013a"],CS[vertical,1],AXIS["Gravity-related |
| | | tical_Datum_of_2013_CGG2013a"],PARAMET | height |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ONCRS[GEOGCRS["GCS_ITRF_2008",DYNAMIC[FR |
| | | OID"],PARAMETER["Interpolation_Type",30.0 | AMEEPOCH[2005.0],MODEL["ITRF2008- |
| | |],PARAMETER["Dataset_CGG2013ai08",0.0],O | PMM"]],DATUM["D_ITRF_2008",ELLIPSOID["GRS_ |
| | | PERATIONACCURACY[0.03]] | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013ai08"],OPERATION |
| | | | ACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9131 | RGAF09_To_IGN_2008_LD_Height_1 | VERTTRAN["RGAF09_To_IGN_2008_LD_Heig ht_1",GEOGCS["GCS_RGAF09",DATUM["Rese au_Geodesique_des_Antilles_Francaises_200 9",SPHEROID["GRS_1980",6378137.0,298.25 7222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["RGAF09",DATUM["Reseau_Geodesique_des_Antilles_Francaises_2009",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["IGN_2008_LD_height",VDATUM["IGN_2008_LD"],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_RALD2016",0.0],OPERATIONACCURACY[0.2]] | COORDINATEOPERATION["RGAF09_To_IGN_2008 _LD_Height_1",SOURCECRS[VERTCRS["RGAF09",D ATUM["Reseau_Geodesique_des_Antilles_Francai ses_2009",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica I,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[V ERTCRS["IGN_2008_LD_height",VDATUM["IGN_20 08_LD"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_RGAF09",DATUM["Reseau _Geodesique_des_Antilles_Francaises_2009",ELLI PSOID["GRS_1980",6378137.0,298.257222101,LE NGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0 .0,ANGLEUNIT["Degree",0.0174532925199433]],C S[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["RALD2016"],OPERATIONACCURACY[0.2]] |
| 9132 | RRAF_1991_To_IGN_2008_LD_Height _1 | VERTTRAN["RRAF_1991_To_IGN_2008_LD_H eight_1",GEOGCS["GCS_RRAF_1991",DATUM ["D_RRAF_1991",SPHEROID["GRS_1980",637 8137.0,298.257222101]],PRIMEM["Greenwic h",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["RRAF_1991",DATUM["D_RRAF_1991",SPHEROID["GRS_1980",6378137.0,298.2 57222101]],PARAMETER["Vertical_Shift",0.0], PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["IGN_2008_LD_height",VDATUM ["IGN_2008_LD"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_RALDW842016",0.0],OPERATIONAC CURACY[0.2]] | COORDINATEOPERATION["RRAF_1991_To_IGN_2 008_LD_Height_1",SOURCECRS[VERTCRS["RRAF_1 991",DATUM["D_RRAF_1991",ELLIPSOID["GRS_19 80",6378137.0,298.257222101,LENGTHUNIT["Met er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[V ERTCRS["IGN_2008_LD_height",VDATUM["IGN_20 08_LD"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_RRAF_1991",DATUM["D_RRAF_1991",ELLIPSOID["GRS_1980",6378137.0,29 8.257222101,LENGTHUNIT["Meter",1.0]]],PRIME M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 32925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["RALDW842016"],OPERATIONACCURACY[0. 2]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|------------------------------------------------|
| 9133 | RGAF09_To_Guadeloupe_1988_Heigh | VERTTRAN["RGAF09_To_Guadeloupe_1988_ | COORDINATEOPERATION["RGAF09_To_Guadelou |
| | t_2 | Height_2",GEOGCS["GCS_RGAF09",DATUM[" | pe_1988_Height_2",SOURCECRS[VERTCRS["RGAF0 |
| | | Reseau_Geodesique_des_Antilles_Francaises | 9",DATUM["Reseau_Geodesique_des_Antilles_Fra |
| | | _2009",SPHEROID["GRS_1980",6378137.0,29 | ncaises_2009",ELLIPSOID["GRS_1980",6378137.0, |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | 298.257222101,LENGTHUNIT["Meter",1.0]]],CS[ve |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | rtical,1],AXIS["Ellipsoidal height |
| | | RGAF09",DATUM["Reseau_Geodesique_des_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | Antilles_Francaises_2009",SPHEROID["GRS_1 | ERTCRS["IGN_1988",VDATUM["IGN_1988"],CS[ver |
| | | 980",6378137.0,298.257222101]],PARAMETE | tical,1],AXIS["Gravity-related height |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | n",1.0],UNIT["Meter",1.0]],VERTCS["IGN_198 | ONCRS[GEOGCRS["GCS_RGAF09",DATUM["Reseau |
| | | 8",VDATUM["IGN_1988"],PARAMETER["Verti | _Geodesique_des_Antilles_Francaises_2009",ELLI |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | PSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | NGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0 |
| | | AMETER["Dataset_RAGTBT2016",0.0],OPERA | .0,ANGLEUNIT["Degree",0.0174532925199433]],C |
| | | TIONACCURACY[0.05]] | S[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RAGTBT2016"],OPERATIONACCURACY[0.05 |
| | | | |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|-----------------------------------------------|------------------------------------------------|
| 9134 | RGAF09_To_IGN_1988_LS_Height_2 | VERTTRAN["RGAF09_To_IGN_1988_LS_Heigh | COORDINATEOPERATION["RGAF09_To_IGN_1988 |
| | | t_2",GEOGCS["GCS_RGAF09",DATUM["Resea | _LS_Height_2",SOURCECRS[VERTCRS["RGAF09",D |
| | | u_Geodesique_des_Antilles_Francaises_2009 | ATUM["Reseau_Geodesique_des_Antilles_Francai |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ses_2009",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica |
| | | egree",0.0174532925199433]],VERTCS["RGA | I,1],AXIS["Ellipsoidal height |
| | | F09",DATUM["Reseau_Geodesique_des_Antil | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | les_Francaises_2009",SPHEROID["GRS_1980" | ERTCRS["IGN_1988_LS",VDATUM["IGN_1988_LS"] |
| | | ,6378137.0,298.257222101]],PARAMETER["V | ,CS[vertical,1],AXIS["Gravity-related height |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0],UNIT["Meter",1.0]],VERTCS["IGN_1988_LS | ONCRS[GEOGCRS["GCS_RGAF09",DATUM["Reseau |
| | | ",VDATUM["IGN_1988_LS"],PARAMETER["Ve | _Geodesique_des_Antilles_Francaises_2009",ELLI |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | PSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | NGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0 |
| | | RAMETER["Dataset_RALS2016",0.0],OPERATI | .0,ANGLEUNIT["Degree",0.0174532925199433]],C |
| | | ONACCURACY[0.1]] | S[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RALS2016"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 9135 | RGAF09_To_IGN_1988_MG_Height_2 | VERTTRAN["RGAF09_To_IGN_1988_MG_Heig | COORDINATEOPERATION["RGAF09_To_IGN_1988 |
| | | ht_2",GEOGCS["GCS_RGAF09",DATUM["Rese | _MG_Height_2",SOURCECRS[VERTCRS["RGAF09", |
| | | au_Geodesique_des_Antilles_Francaises_200 | DATUM["Reseau_Geodesique_des_Antilles_Franc |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | aises_2009",ELLIPSOID["GRS_1980",6378137.0,29 |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | 8.257222101,LENGTHUNIT["Meter",1.0]]],CS[verti |
| | | Degree",0.0174532925199433]],VERTCS["RG | cal,1],AXIS["Ellipsoidal height |
| | | AF09",DATUM["Reseau_Geodesique_des_An | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | tilles_Francaises_2009",SPHEROID["GRS_198 | ERTCRS["IGN_1988_MG",VDATUM["IGN_1988_M |
| | | 0",6378137.0,298.257222101]],PARAMETER[| G"],CS[vertical,1],AXIS["Gravity-related height |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["IGN_1988_ | ONCRS[GEOGCRS["GCS_RGAF09",DATUM["Reseau |
| | | MG",VDATUM["IGN_1988_MG"],PARAMETE | _Geodesique_des_Antilles_Francaises_2009",ELLI |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | PSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOI | NGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0 |
| | | D"],PARAMETER["Dataset_RAMG2016",0.0], | .0,ANGLEUNIT["Degree",0.0174532925199433]],C |
| | | OPERATIONACCURACY[0.1]] | S[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RAMG2016"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|------------------------------------------------|
| 9136 | RGAF09_To_Martinique_1987_Height | VERTTRAN["RGAF09_To_Martinique_1987_H | COORDINATEOPERATION["RGAF09_To_Martiniqu |
| | _2 | eight_2",GEOGCS["GCS_RGAF09",DATUM["R | e_1987_Height_2",SOURCECRS[VERTCRS["RGAF09 |
| | | eseau_Geodesique_des_Antilles_Francaises_ | ",DATUM["Reseau_Geodesique_des_Antilles_Fran |
| | | 2009",SPHEROID["GRS_1980",6378137.0,298 | caises_2009",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | .257222101]],PRIMEM["Greenwich",0.0],UNI | 98.257222101,LENGTHUNIT["Meter",1.0]]],CS[vert |
| | | T["Degree",0.0174532925199433]],VERTCS[" | ical,1],AXIS["Ellipsoidal height |
| | | RGAF09",DATUM["Reseau_Geodesique_des_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | Antilles_Francaises_2009",SPHEROID["GRS_1 | ERTCRS["IGN_1987",VDATUM["IGN_1987"],CS[ver |
| | | 980",6378137.0,298.257222101]],PARAMETE | tical,1],AXIS["Gravity-related height |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | n",1.0],UNIT["Meter",1.0]],VERTCS["IGN_198 | ONCRS[GEOGCRS["GCS_RGAF09",DATUM["Reseau |
| | | 7",VDATUM["IGN_1987"],PARAMETER["Verti | _Geodesique_des_Antilles_Francaises_2009",ELLI |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | PSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | NGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0 |
| | | AMETER["Dataset_RAMART2016",0.0],OPERA | .0,ANGLEUNIT["Degree",0.0174532925199433]],C |
| | | TIONACCURACY[0.05]] | S[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RAMART2016"],OPERATIONACCURACY[0.0 |
| | | | 5]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9160 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_GEOID99_1 | Height_GEOID99_1",GEOGCS["GCS_North_A | NAVD88_Height_GEOID99_1",SOURCECRS[VERTC |
| | | merican_1983_HARN",DATUM["D_North_Am | RS["North_American_1983_HARN",DATUM["D_N |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | orth_American_1983_HARN",ELLIPSOID["GRS_198 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u01",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u01"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9161 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_GEOID99_2 | Height_GEOID99_2",GEOGCS["GCS_North_A | NAVD88_Height_GEOID99_2",SOURCECRS[VERTC |
| | | merican_1983_HARN",DATUM["D_North_Am | RS["North_American_1983_HARN",DATUM["D_N |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | orth_American_1983_HARN",ELLIPSOID["GRS_198 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u02",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u02"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9162 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_GEOID99_3 | Height_GEOID99_3",GEOGCS["GCS_North_A | NAVD88_Height_GEOID99_3",SOURCECRS[VERTC |
| | | merican_1983_HARN",DATUM["D_North_Am | RS["North_American_1983_HARN",DATUM["D_N |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | orth_American_1983_HARN",ELLIPSOID["GRS_198 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u03",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u03"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9163 | NAD_1983_HARN_To_AVD88_Height_ | VERTTRAN["NAD_1983_HARN_To_AVD88_H | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | GEOID99_4 | eight_GEOID99_4",GEOGCS["GCS_North_Am | AVD88_Height_GEOID99_4",SOURCECRS[VERTCRS |
| | | erican_1983_HARN",DATUM["D_North_Ame | ["North_American_1983_HARN",DATUM["D_Nort |
| | | rican_1983_HARN",SPHEROID["GRS_1980",6 | h_American_1983_HARN",ELLIPSOID["GRS_1980", |
| | | 378137.0,298.257222101]],PRIMEM["Green | 6378137.0,298.257222101,LENGTHUNIT["Meter", |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | 1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u04",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u04"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9164 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_GEOID99_5 | Height_GEOID99_5",GEOGCS["GCS_North_A | NAVD88_Height_GEOID99_5",SOURCECRS[VERTC |
| | | merican_1983_HARN",DATUM["D_North_Am | RS["North_American_1983_HARN",DATUM["D_N |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | orth_American_1983_HARN",ELLIPSOID["GRS_198 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u05",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u05"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9165 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_GEOID99_6 | Height_GEOID99_6",GEOGCS["GCS_North_A | NAVD88_Height_GEOID99_6",SOURCECRS[VERTC |
| | | merican_1983_HARN",DATUM["D_North_Am | RS["North_American_1983_HARN",DATUM["D_N |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | orth_American_1983_HARN",ELLIPSOID["GRS_198 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u06",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u06"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9166 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_GEOID99_7 | Height_GEOID99_7",GEOGCS["GCS_North_A | NAVD88_Height_GEOID99_7",SOURCECRS[VERTC |
| | | merican_1983_HARN",DATUM["D_North_Am | RS["North_American_1983_HARN",DATUM["D_N |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | orth_American_1983_HARN",ELLIPSOID["GRS_198 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u07",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u07"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9167 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_GEOID99_8 | Height_GEOID99_8",GEOGCS["GCS_North_A | NAVD88_Height_GEOID99_8",SOURCECRS[VERTC |
| | | merican_1983_HARN",DATUM["D_North_Am | RS["North_American_1983_HARN",DATUM["D_N |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | orth_American_1983_HARN",ELLIPSOID["GRS_198 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ty-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ARN",DATUM["D_North_American_1983_HARN", |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999u08",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999u08"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 9168 | NAD_1983_FBN_To_NAVD88_Height_ | VERTTRAN["NAD_1983_FBN_To_NAVD88_He | COORDINATEOPERATION["NAD_1983_FBN_To_N |
| | CONUS_GEOID03 | ight_CONUS_GEOID03",GEOGCS["NAD_1983 | AVD88_Height_CONUS_GEOID03",SOURCECRS[VE |
| | | _(FBN)",DATUM["NAD_1983_(Federal_Base_ | RTCRS["NAD_1983_(FBN)",DATUM["NAD_1983_(F |
| | | Network)",SPHEROID["GRS_1980",6378137.0 | ederal_Base_Network)",ELLIPSOID["GRS_1980",63 |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | 78137.0,298.257222101,LENGTHUNIT["Meter",1.0 |
| | | UNIT["Degree",0.0174532925199433]],VERT |]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | CS["NAD_1983_(FBN)",DATUM["NAD_1983_(| (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | Federal_Base_Network)",SPHEROID["GRS_19 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 80",6378137.0,298.257222101]],PARAMETER | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | ty-related height |
| | | ,1.0],UNIT["Meter",1.0]],VERTCS["NAVD_198 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 8",VDATUM["North_American_Vertical_Datu | ONCRS[GEOGCRS["NAD_1983_(FBN)",DATUM["N |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | AD_1983_(Federal_Base_Network)",ELLIPSOID["G |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | 0]],VTMETHOD["GEOID"],PARAMETER["Datas | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | et_geoid03_conus",0.0],OPERATIONACCURA | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | CY[0.024]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid03_conus"],OPERATIONACCURACY[0. |
| | | | 024]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|---------------------------------------------|---------------------------------------------------|
| 9169 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_Alaska_GEOID06_9 | Height_Alaska_GEOID06_9",GEOGCS["GCS_N | NAVD88_Height_Alaska_GEOID06_9",SOURCECRS |
| | | orth_American_1983_HARN",DATUM["D_No | [VERTCRS["North_American_1983_HARN",DATUM |
| | | rth_American_1983_HARN",SPHEROID["GRS_ | ["D_North_American_1983_HARN",ELLIPSOID["GR |
| | | 1980",6378137.0,298.257222101]],PRIMEM[" | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | "Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 5199433]],VERTCS["North_American_1983_H | height |
| | | ARN",DATUM["D_North_American_1983_HA | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | RN",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | ty-related height |
| | | .0]],VERTCS["NAVD_1988",VDATUM["North_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | American_Vertical_Datum_1988"],PARAMET | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ARN",DATUM["D_North_American_1983_HARN", |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | OID"],PARAMETER["Dataset_geoid06_ak",0.0 | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | |],OPERATIONACCURACY[0.024]] | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid06_ak"],OPERATIONACCURACY[0.024 |
| | | | |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|-----------------------------------------------|-------------------------------------------------|
| 9170 | NAD_1983_FBN_To_ASVD02_Height_ | VERTTRAN["NAD_1983_FBN_To_ASVD02_Hei | COORDINATEOPERATION["NAD_1983_FBN_To_AS |
| | GEOID09_1 | ght_GEOID09_1",GEOGCS["NAD_1983_(FBN) | VD02_Height_GEOID09_1",SOURCECRS[VERTCRS[|
| | | ",DATUM["NAD_1983_(Federal_Base_Netwo | "NAD_1983_(FBN)",DATUM["NAD_1983_(Federal |
| | | rk)",SPHEROID["GRS_1980",6378137.0,298.2 | _Base_Network)",ELLIPSOID["GRS_1980",6378137 |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| .0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | "Degree",0.0174532925199433]],VERTCS["N | vertical,1],AXIS["Ellipsoidal height |
| | | AD_1983_(FBN)",DATUM["NAD_1983_(Feder | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | al_Base_Network)",SPHEROID["GRS_1980",6 | ERTCRS["ASVD02_height",VDATUM["American_Sa |
| | | 378137.0,298.257222101]],PARAMETER["Ver | moa_Vertical_Datum_of_2002"],CS[vertical,1],AXI |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | S["Gravity-related height |
| | | UNIT["Meter",1.0]],VERTCS["ASVD02_height" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ,VDATUM["American_Samoa_Vertical_Datu | ONCRS[GEOGCRS["NAD_1983_(FBN)",DATUM["N |
| | | m_of_2002"],PARAMETER["Vertical_Shift",0. | AD_1983_(Federal_Base_Network)",ELLIPSOID["G |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | ",1.0]],VTMETHOD["GEOID"],PARAMETER["D | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | ataset_g2009s01",0.0],OPERATIONACCURACY | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | [0.02]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009s01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9171 | NAD_1983_FBN_To_GUVD04_Height_ | VERTTRAN["NAD_1983_FBN_To_GUVD04_H | COORDINATEOPERATION["NAD_1983_FBN_To_G |
| | GEOID09_1 | eight_GEOID09_1",GEOGCS["NAD_1983_(FB | UVD04_Height_GEOID09_1",SOURCECRS[VERTCRS |
| | | N)",DATUM["NAD_1983_(Federal_Base_Net | ["NAD_1983_(FBN)",DATUM["NAD_1983_(Federal |
| | | work)",SPHEROID["GRS_1980",6378137.0,29 | _Base_Network)",ELLIPSOID["GRS_1980",6378137 |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | .0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | IT["Degree",0.0174532925199433]],VERTCS[" | vertical,1],AXIS["Ellipsoidal height |
| | | NAD_1983_(FBN)",DATUM["NAD_1983_(Fed | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | eral_Base_Network)",SPHEROID["GRS_1980", | ERTCRS["GUVD04_height",VDATUM["Guam_Verti |
| | | 6378137.0,298.257222101]],PARAMETER["Ve | cal_Datum_of_2004"],CS[vertical,1],AXIS["Gravity- |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | related height |
| | | ,UNIT["Meter",1.0]],VERTCS["GUVD04_height | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ",VDATUM["Guam_Vertical_Datum_of_2004" | ONCRS[GEOGCRS["NAD_1983_(FBN)",DATUM["N |
| | |],PARAMETER["Vertical_Shift",0.0],PARAMET | AD_1983_(Federal_Base_Network)",ELLIPSOID["G |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VTME | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | THOD["GEOID"],PARAMETER["Dataset_g2009 | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | g01",0.0],OPERATIONACCURACY[0.02]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009g01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|-----------------------------------------------|-------------------------------------------------|
| 9172 | NAD_1983_FBN_To_NMVD03_Height | VERTTRAN["NAD_1983_FBN_To_NMVD03_H | COORDINATEOPERATION["NAD_1983_FBN_To_N |
| | _GEOID09_1 | eight_GEOID09_1",GEOGCS["NAD_1983_(FB | MVD03_Height_GEOID09_1",SOURCECRS[VERTCR |
| | | N)",DATUM["NAD_1983_(Federal_Base_Net | S["NAD_1983_(FBN)",DATUM["NAD_1983_(Feder |
| | | work)",SPHEROID["GRS_1980",6378137.0,29 | al_Base_Network)",ELLIPSOID["GRS_1980",63781 |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | CS[vertical,1],AXIS["Ellipsoidal height |
| | | NAD_1983_(FBN)",DATUM["NAD_1983_(Fed | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | eral_Base_Network)",SPHEROID["GRS_1980", | ERTCRS["NMVD03_height",VDATUM["Northern_ |
| | | 6378137.0,298.257222101]],PARAMETER["Ve | Marianas_Vertical_Datum_of_2003"],CS[vertical,1 |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] |],AXIS["Gravity-related height |
| | | ,UNIT["Meter",1.0]],VERTCS["NMVD03_heigh | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | t",VDATUM["Northern_Marianas_Vertical_D | ONCRS[GEOGCRS["NAD_1983_(FBN)",DATUM["N |
| | | atum_of_2003"],PARAMETER["Vertical_Shift" | AD_1983_(Federal_Base_Network)",ELLIPSOID["G |
| | | ,0.0],PARAMETER["Direction",1.0],UNIT["Met | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | er",1.0]],VTMETHOD["GEOID"],PARAMETER[" | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | Dataset_g2009g01",0.0],OPERATIONACCURA | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | CY[0.02]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009g01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 9173 | NAD_1983_NSRS2007_To_NAVD88_H | VERTTRAN["NAD_1983_NSRS2007_To_NAVD | COORDINATEOPERATION["NAD_1983_NSRS2007_ |
| | eight_CONUS_GEOID09_1 | 88_Height_CONUS_GEOID09_1",GEOGCS["G | To_NAVD88_Height_CONUS_GEOID09_1",SOURC |
| | | CS_NAD_1983_NSRS2007",DATUM["D_NAD_ | ECRS[VERTCRS["NAD_1983_NSRS2007",DATUM[" |
| | | 1983_NSRS2007",SPHEROID["GRS_1980",637 | D_NAD_1983_NSRS2007",ELLIPSOID["GRS_1980", |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 6378137.0,298.257222101,LENGTHUNIT["Meter", |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | 1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["NAD_1983_NSRS2007",DATUM["D | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _NAD_1983_NSRS2007",SPHEROID["GRS_19 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 80",6378137.0,298.257222101]],PARAMETER | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | ty-related height |
| | | ,1.0],UNIT["Meter",1.0]],VERTCS["NAVD_198 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 8",VDATUM["North_American_Vertical_Datu | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | 0]],VTMETHOD["GEOID"],PARAMETER["Datas | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | et_geoid09_conus",0.0],OPERATIONACCURA | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | CY[0.02]] | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid09_conus"],OPERATIONACCURACY[0. |
| | | | 02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 9174 | NAD_1983_NSRS2007_To_NAVD88_H | VERTTRAN["NAD_1983_NSRS2007_To_NAVD | COORDINATEOPERATION["NAD_1983_NSRS2007_ |
| | eight_Alaska_GEOID09_2 | 88_Height_Alaska_GEOID09_2",GEOGCS["GC | To_NAVD88_Height_Alaska_GEOID09_2",SOURCE |
| | | S_NAD_1983_NSRS2007",DATUM["D_NAD_1 | CRS[VERTCRS["NAD_1983_NSRS2007",DATUM["D |
| | | 983_NSRS2007",SPHEROID["GRS_1980",6378 | _NAD_1983_NSRS2007",ELLIPSOID["GRS_1980",6 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | 0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["NAD_1983_NSRS2007",DATUM["D_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | NAD_1983_NSRS2007",SPHEROID["GRS_198 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 0",6378137.0,298.257222101]],PARAMETER[| _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | ty-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["NAVD_1988 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ",VDATUM["North_American_Vertical_Datu | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | 0]],VTMETHOD["GEOID"],PARAMETER["Datas | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | et_geoid09_ak",0.0],OPERATIONACCURACY[0 | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | .02]] | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid09_ak"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------|---------------------------------------------|--------------------------------------------------|
| 9175 | NAD_1983_NSRS2007_To_PRVD02_H | VERTTRAN["NAD_1983_NSRS2007_To_PRVD | COORDINATEOPERATION["NAD_1983_NSRS2007_ |
| | eight_GEOID09_1 | 02_Height_GEOID09_1",GEOGCS["GCS_NAD_ | To_PRVD02_Height_GEOID09_1",SOURCECRS[VER |
| | | 1983_NSRS2007",DATUM["D_NAD_1983_NS | TCRS["NAD_1983_NSRS2007",DATUM["D_NAD_1 |
| | | RS2007",SPHEROID["GRS_1980",6378137.0,2 | 983_NSRS2007",ELLIPSOID["GRS_1980",6378137. |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | 0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | NIT["Degree",0.0174532925199433]],VERTCS | vertical,1],AXIS["Ellipsoidal height |
| | | ["NAD_1983_NSRS2007",DATUM["D_NAD_1 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 983_NSRS2007",SPHEROID["GRS_1980",6378 | ERTCRS["PRVD02_height",VDATUM["Puerto_Rico_ |
| | | 137.0,298.257222101]],PARAMETER["Vertical | Vertical_Datum_of_2002"],CS[vertical,1],AXIS["Gr |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | avity-related height |
| | | T["Meter",1.0]],VERTCS["PRVD02_height",VD | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ATUM["Puerto_Rico_Vertical_Datum_of_200 | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | 2"],PARAMETER["Vertical_Shift",0.0],PARAM | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VT | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | METHOD["GEOID"],PARAMETER["Dataset_g2 | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | 009p01",0.0],OPERATIONACCURACY[0.02]] | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009p01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|--------------------------------------------------|
| 9176 | NAD_1983_NSRS2007_To_VIVD09_He | VERTTRAN["NAD_1983_NSRS2007_To_VIVD0 | COORDINATEOPERATION["NAD_1983_NSRS2007_ |
| | ight_GEOID09_1 | 9_Height_GEOID09_1",GEOGCS["GCS_NAD_1 | To_VIVD09_Height_GEOID09_1",SOURCECRS[VER |
| | | 983_NSRS2007",DATUM["D_NAD_1983_NSR | TCRS["NAD_1983_NSRS2007",DATUM["D_NAD_1 |
| | | S2007",SPHEROID["GRS_1980",6378137.0,29 | 983_NSRS2007",ELLIPSOID["GRS_1980",6378137. |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | 0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | IT["Degree",0.0174532925199433]],VERTCS[" | vertical,1],AXIS["Ellipsoidal height |
| | | NAD_1983_NSRS2007",DATUM["D_NAD_198 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 3_NSRS2007",SPHEROID["GRS_1980",637813 | ERTCRS["VIVD09_height",VDATUM["Virgin_Islands |
| | | 7.0,298.257222101]],PARAMETER["Vertical_S | _Vertical_Datum_of_2009"],CS[vertical,1],AXIS["G |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ravity-related height |
| | | Meter",1.0]],VERTCS["VIVD09_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["Virgin_Islands_Vertical_Datum_of_2009 | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | ETHOD["GEOID"],PARAMETER["Dataset_g200 | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | 9p01",0.0],OPERATIONACCURACY[0.02]] | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009p01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|------------------------------------------------|
| 9187 | RGAF09_To_IGN_1988_SB_Height_2 | VERTTRAN["RGAF09_To_IGN_1988_SB_Heig | COORDINATEOPERATION["RGAF09_To_IGN_1988 |
| | | ht_2",GEOGCS["GCS_RGAF09",DATUM["Rese | _SB_Height_2",SOURCECRS[VERTCRS["RGAF09",D |
| | | au_Geodesique_des_Antilles_Francaises_200 | ATUM["Reseau_Geodesique_des_Antilles_Francai |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | ses_2009",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica |
| | | Degree",0.0174532925199433]],VERTCS["RG | I,1],AXIS["Ellipsoidal height |
| | | AF09",DATUM["Reseau_Geodesique_des_An | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | tilles_Francaises_2009",SPHEROID["GRS_198 | ERTCRS["IGN_1988_SB",VDATUM["IGN_1988_SB" |
| | | 0",6378137.0,298.257222101]],PARAMETER[|],CS[vertical,1],AXIS["Gravity-related height |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["IGN_1988_ | ONCRS[GEOGCRS["GCS_RGAF09",DATUM["Reseau |
| | | SB",VDATUM["IGN_1988_SB"],PARAMETER[" | _Geodesique_des_Antilles_Francaises_2009",ELLI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | PSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | NGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0 |
| | | PARAMETER["Dataset_gg10_sbv2",0.0],OPER | .0,ANGLEUNIT["Degree",0.0174532925199433]],C |
| | | ATIONACCURACY[0.1]] | S[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["gg10_sbv2"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|------------------------------------------------|
| 9188 | RGAF09_To_IGN_1988_SM_Height_2 | VERTTRAN["RGAF09_To_IGN_1988_SM_Heig | COORDINATEOPERATION["RGAF09_To_IGN_1988 |
| | | ht_2",GEOGCS["GCS_RGAF09",DATUM["Rese | _SM_Height_2",SOURCECRS[VERTCRS["RGAF09",D |
| | | au_Geodesique_des_Antilles_Francaises_200 | ATUM["Reseau_Geodesique_des_Antilles_Francai |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | ses_2009",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica |
| | | Degree",0.0174532925199433]],VERTCS["RG | I,1],AXIS["Ellipsoidal height |
| | | AF09",DATUM["Reseau_Geodesique_des_An | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | tilles_Francaises_2009",SPHEROID["GRS_198 | ERTCRS["IGN_1988_SM",VDATUM["IGN_1988_SM |
| | | 0",6378137.0,298.257222101]],PARAMETER[| "],CS[vertical,1],AXIS["Gravity-related height |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["IGN_1988_ | ONCRS[GEOGCRS["GCS_RGAF09",DATUM["Reseau |
| | | SM",VDATUM["IGN_1988_SM"],PARAMETER[| _Geodesique_des_Antilles_Francaises_2009",ELLI |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | PSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | NGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0 |
| | |],PARAMETER["Dataset_gg10_smv2",0.0],OP | .0,ANGLEUNIT["Degree",0.0174532925199433]],C |
| | | ERATIONACCURACY[0.1]] | S[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["gg10_smv2"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|------------------------------------------------|
| 9228 | RGSPM06_To_Danger_1950_Height_2 | VERTTRAN["RGSPM06_To_Danger_1950_Hei | COORDINATEOPERATION["RGSPM06_To_Danger_ |
| | | ght_2",GEOGCS["GCS_RGSPM_2006",DATUM | 1950_Height_2",SOURCECRS[VERTCRS["RGSPM_2 |
| | | ["D_Reseau_Geodesique_de_St_Pierre_et_M | 006",DATUM["D_Reseau_Geodesique_de_St_Pier |
| | | iquelon_2006",SPHEROID["GRS_1980",63781 | re_et_Miquelon_2006",ELLIPSOID["GRS_1980",63 |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | 78137.0,298.257222101,LENGTHUNIT["Meter",1.0 |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V |]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | ERTCS["RGSPM_2006",DATUM["D_Reseau_G | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | eodesique_de_St_Pierre_et_Miquelon_2006" | ERTCRS["Danger_1950",VDATUM["Danger_1950"] |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | ,CS[vertical,1],AXIS["Gravity-related height |
| | | 22101]],PARAMETER["Vertical_Shift",0.0],PA | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | ONCRS[GEOGCRS["GCS_RGSPM_2006",DATUM["D |
| | |],VERTCS["Danger_1950",VDATUM["Danger_ | _Reseau_Geodesique_de_St_Pierre_et_Miquelon |
| | | 1950"],PARAMETER["Vertical_Shift",0.0],PAR | _2006",ELLIPSOID["GRS_1980",6378137.0,298.257 |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | 222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gre |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | enwich",0.0,ANGLEUNIT["Degree",0.01745329251 |
| | | RASPM2018",0.0],OPERATIONACCURACY[0.0 | 99433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 5]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RASPM2018"],OPERATIONACCURACY[0.05] |
| | | |] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|---------------------------------------------|---------------------------------------------------|
| 9229 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _CONUS_GEOID18_Height_3 | VD88_CONUS_GEOID18_Height_3",GEOGCS[| ht_To_NAVD88_CONUS_GEOID18_Height_3",SOU |
| | | "GCS_NAD_1983_2011",DATUM["D_NAD_19 | RCECRS[VERTCRS["NAD_1983_2011",DYNAMIC[FR |
| | | 83_2011",SPHEROID["GRS_1980",6378137.0, | AMEEPOCH[2010.0],MODEL["HTDP"]],DATUM["D_ |
| | | 298.257222101]],PRIMEM["Greenwich",0.0], | NAD_1983_2011",ELLIPSOID["GRS_1980",637813 |
| | | UNIT["Degree",0.0174532925199433]],VERT | 7.0,298.257222101,LENGTHUNIT["Meter",1.0]]],C |
| | | CS["NAD_1983_2011",DATUM["D_NAD_1983 | S[vertical,1],AXIS["Ellipsoidal height |
| | | _2011",SPHEROID["GRS_1980",6378137.0,29 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ",1.0]],VERTCS["NAVD_1988",VDATUM["Nort | ty-related height |
| | | h_American_Vertical_Datum_1988"],PARAM | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["G | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | EOID"],PARAMETER["Dataset_g2018u0",0.0], | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | OPERATIONACCURACY[0.0139]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2018u0"],OPERATIONACCURACY[0.0139]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 9230 | NAD_1983_2011_Height_To_PRVD02 | VERTTRAN["NAD_1983_2011_Height_To_PR | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _GEOID18_Height_2 | VD02_GEOID18_Height_2",GEOGCS["GCS_NA | ht_To_PRVD02_GEOID18_Height_2",SOURCECRS[|
| | | D_1983_2011",DATUM["D_NAD_1983_2011" | VERTCRS["NAD_1983_2011",DYNAMIC[FRAMEEP |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | OCH[2010.0],MODEL["HTDP"]],DATUM["D_NAD_1 |
| | | 22101]],PRIMEM["Greenwich",0.0],UNIT["De | 983_2011",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | gree",0.0174532925199433]],VERTCS["NAD_ | 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica |
| | | 1983_2011",DATUM["D_NAD_1983_2011",S | I,1],AXIS["Ellipsoidal height |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ERTCRS["PRVD02_height",VDATUM["Puerto_Rico_ |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | Vertical_Datum_of_2002"],CS[vertical,1],AXIS["Gr |
| | | ERTCS["PRVD02_height",VDATUM["Puerto_R | avity-related height |
| | | ico_Vertical_Datum_of_2002"],PARAMETER[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | PARAMETER["Dataset_g2018p0",0.0],OPERA | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | TIONACCURACY[0.0139]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2018p0"],OPERATIONACCURACY[0.0139]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|---------------------------------------------------|
| 9231 | NAD_1983_2011_Height_To_VIVD09_ | VERTTRAN["NAD_1983_2011_Height_To_VIV | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | Height_GEOID18_2 | D09_Height_GEOID18_2",GEOGCS["GCS_NA | ht_To_VIVD09_Height_GEOID18_2",SOURCECRS[V |
| | | D_1983_2011",DATUM["D_NAD_1983_2011" | ERTCRS["NAD_1983_2011",DYNAMIC[FRAMEEPO |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | CH[2010.0],MODEL["HTDP"]],DATUM["D_NAD_19 |
| | | 22101]],PRIMEM["Greenwich",0.0],UNIT["De | 83_2011",ELLIPSOID["GRS_1980",6378137.0,298.2 |
| | | gree",0.0174532925199433]],VERTCS["NAD_ | 57222101,LENGTHUNIT["Meter",1.0]]],CS[vertical, |
| | | 1983_2011",DATUM["D_NAD_1983_2011",S | 1],AXIS["Ellipsoidal height |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ERTCRS["VIVD09_height",VDATUM["Virgin_Islands |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | _Vertical_Datum_of_2009"],CS[vertical,1],AXIS["G |
| | | ERTCS["VIVD09_height",VDATUM["Virgin_Isla | ravity-related height |
| | | nds_Vertical_Datum_of_2009"],PARAMETER[| (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | |],PARAMETER["Dataset_g2018p0",0.0],OPER | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | ATIONACCURACY[0.0139]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2018p0"],OPERATIONACCURACY[0.0139]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|-----------------------------------------------------|
| 9246 | NAD83(CSRS)v6_Height_To_CGVD201 | VERTTRAN["NAD83(CSRS)v6_Height_To_CGV | COORDINATEOPERATION["NAD83(CSRS)v6_Height |
| | 3(CGG2013)_Height_1 | D2013(CGG2013)_Height_1",GEOGCS["NAD8 | _To_CGVD2013(CGG2013)_Height_1",SOURCECRS |
| | | 3(CSRS)v6",DATUM["North_American_Datum | [VERTCRS["NAD83(CSRS)v6",DATUM["North_Ame |
| | | _of_1983_(CSRS)_version_6",SPHEROID["GRS | rican_Datum_of_1983_(CSRS)_version_6",ELLIPSO |
| | | _1980",6378137.0,298.257222101]],PRIMEM | ID["GRS_1980",6378137.0,298.257222101,LENGT |
| | | ["Greenwich",0.0],UNIT["Degree",0.0174532 | HUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoid |
| | | 925199433]],VERTCS["NAD83(CSRS)v6",DATU | al height |
| | | M["North_American_Datum_of_1983_(CSRS) | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _version_6",SPHEROID["GRS_1980",6378137. | ERTCRS["CGVD2013_height",VDATUM["Canadian_ |
| | | 0,298.257222101]],PARAMETER["Vertical_Shi | Geodetic_Vertical_Datum_of_2013"],CS[vertical,1 |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" |],AXIS["Gravity-related height |
| | | Meter",1.0]],VERTCS["CGVD2013_height",VD | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ATUM["Canadian_Geodetic_Vertical_Datum_ | ONCRS[GEOGCRS["NAD83(CSRS)v6",DATUM["Nort |
| | | of_2013"],PARAMETER["Vertical_Shift",0.0],P | h_American_Datum_of_1983_(CSRS)_version_6", |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | 0]],VTMETHOD["GEOID"],PARAMETER["Inter | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | polation_Type",30.0],PARAMETER["Dataset_ | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | CGG2013n83",0.0],OPERATIONACCURACY[0. |],CS[ellipsoidal,2],AXIS["Latitude |
| | | 03]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013n83"],OPERATIONA |
| | | | CCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|-----------------------------------------------------|
| 9247 | NAD83(CSRS)v6_Height_To_CGVD201 | VERTTRAN["NAD83(CSRS)v6_Height_To_CGV | COORDINATEOPERATION["NAD83(CSRS)v6_Height |
| | 3(CGG2013a)_Height_1 | D2013(CGG2013a)_Height_1",GEOGCS["NAD | _To_CGVD2013(CGG2013a)_Height_1",SOURCECR |
| | | 83(CSRS)v6",DATUM["North_American_Datu | S[VERTCRS["NAD83(CSRS)v6",DATUM["North_Am |
| | | m_of_1983_(CSRS)_version_6",SPHEROID["G | erican_Datum_of_1983_(CSRS)_version_6",ELLIPS |
| | | RS_1980",6378137.0,298.257222101]],PRIME | OID["GRS_1980",6378137.0,298.257222101,LENG |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | THUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoi |
| | | 2925199433]],VERTCS["NAD83(CSRS)v6",DAT | dal height |
| | | UM["North_American_Datum_of_1983_(CSR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | S)_version_6",SPHEROID["GRS_1980",637813 | ERTCRS["CGVD2013_CGG2013a_height",VDATUM |
| | | 7.0,298.257222101]],PARAMETER["Vertical_S | ["Canadian_Geodetic_Vertical_Datum_of_2013_C |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | GG2013a"],CS[vertical,1],AXIS["Gravity-related |
| | | Meter",1.0]],VERTCS["CGVD2013_CGG2013a | height |
| | | _height",VDATUM["Canadian_Geodetic_Verti | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | cal_Datum_of_2013_CGG2013a"],PARAMETE | ONCRS[GEOGCRS["NAD83(CSRS)v6",DATUM["Nort |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | h_American_Datum_of_1983_(CSRS)_version_6", |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOI | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | D"],PARAMETER["Interpolation_Type",30.0],P | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | ARAMETER["Dataset_CGG2013an83",0.0],OP | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ERATIONACCURACY[0.03]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013an83"],OPERATION |
| | | | ACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9256 | POSGAR_2007_To_SRVN16_Height_1 | VERTTRAN["POSGAR_2007_To_SRVN16_Height_1",GEOGCS["GCS_POSGAR_2007",DATUM ["D_POSGAR_2007",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["POSGAR_2007",DATUM["D_POSGAR_2007",SPHEROID["WGS_1984",6378137.0,298.257223563]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["SRVN16_height",VDATUM["Sistema_de_Referencia_Vertical_Nacional_2016"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_GEOIDE-Ar16",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["POSGAR_2007_To_SRV N16_Height_1",SOURCECRS[VERTCRS["POSGAR_2 007",DATUM["D_POSGAR_2007",ELLIPSOID["WGS _1984",6378137.0,298.257223563,LENGTHUNIT[" Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["SRVN16_height",VDATUM["Sistema_de_ Referencia_Vertical_Nacional_2016"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_POSGAR_2007",DATUM[" D_POSGAR_2007",ELLIPSOID["WGS_1984",637813 7.0,298.257223563,LENGTHUNIT["Meter",1.0]]],P RIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0 174532925199433]],CS[ellipsoidal,2],AXIS["Latitud e (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["GEOIDE-Ar16"],OPERATIONACCURACY[0.05]] |
| 9275 | GHA_Height_To_EVRF2000_Austria_H eight_1 | VERTTRAN["GHA_Height_To_EVRF2000_Austria_Height_1",GEOGCS["GCS_MGI",DATUM["D_MGI",SPHEROID["Bessel_1841",6377397.155,299.1528128]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["GHA",VDATUM["Gebrauchshohen_Adria"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["EVRF2000_Austria_height",VDATUM["European_Vertical_Reference_Frame_2000_Austria"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset_with_Grid"],PARAMETER["Dataset_GV_HoehenGrid_V1",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["GHA_Height_To_EVRF2 000_Austria_Height_1",SOURCECRS[VERTCRS["GH A",VDATUM["Gebrauchshohen_Adria"],CS[vertical ,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF2000_Austria_height",VDATUM["E uropean_Vertical_Reference_Frame_2000_Austria "],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_MGI",DATUM["D_MGI",EL LIPSOID["Bessel_1841",6377397.155,299.1528128 ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich ",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["Vertical_Offset_with _Grid"],PARAMETERFILE["GV_HoehenGrid_V1"],O PERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|----------------------------------------------|----------------------------------------------------|
| 9276 | ETRS89_Height_To_EVRF2000_Austria | VERTTRAN["ETRS89_Height_To_EVRF2000_A | COORDINATEOPERATION["ETRS89_Height_To_EV |
| | _Height_1 | ustria_Height_1",GEOGCS["GCS_ETRS_1989", | RF2000_Austria_Height_1",SOURCECRS[VERTCRS[|
| | | DATUM["D_ETRS_1989",SPHEROID["GRS_19 | "ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID[" |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | IT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 99433]],VERTCS["ETRS_1989",DATUM["D_ET | height |
| | | RS_1989",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["EVRF2000_Austria_height",VDATUM["Eu |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | ropean_Vertical_Reference_Frame_2000_Austria" |
| | | ter",1.0]],VERTCS["EVRF2000_Austria_height |],CS[vertical,1],AXIS["Gravity-related height |
| | | ",VDATUM["European_Vertical_Reference_Fr | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ame_2000_Austria"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ER["Dataset_GEOID_GRS80_Oesterreich",0.0] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ,OPERATIONACCURACY[0.05]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GEOID_GRS80_Oesterreich"],OPERATIONA |
| | | | CCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|-----------------------------------------------|------------------------------------------------|
| 9277 | MGI_To_EVRF2000_Austria_Height_1 | VERTTRAN["MGI_To_EVRF2000_Austria_Heig | COORDINATEOPERATION["MGI_To_EVRF2000_Au |
| | | ht_1",GEOGCS["GCS_MGI",DATUM["D_MGI", | stria_Height_1",SOURCECRS[VERTCRS["MGI",DAT |
| | | SPHEROID["Bessel_1841",6377397.155,299.1 | UM["D_MGI",ELLIPSOID["Bessel_1841",6377397.1 |
| | | 528128]],PRIMEM["Greenwich",0.0],UNIT["D | 55,299.1528128,LENGTHUNIT["Meter",1.0]]],CS[v |
| | | egree",0.0174532925199433]],VERTCS["MGI" | ertical,1],AXIS["Ellipsoidal height |
| | | ,DATUM["D_MGI",SPHEROID["Bessel_1841", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 6377397.155,299.1528128]],PARAMETER["Ve | ERTCRS["EVRF2000_Austria_height",VDATUM["Eu |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ropean_Vertical_Reference_Frame_2000_Austria" |
| | | ,UNIT["Meter",1.0]],VERTCS["EVRF2000_Aust |],CS[vertical,1],AXIS["Gravity-related height |
| | | ria_height",VDATUM["European_Vertical_Ref | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | erence_Frame_2000_Austria"],PARAMETER[" | ONCRS[GEOGCRS["GCS_MGI",DATUM["D_MGI",EL |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | LIPSOID["Bessel_1841",6377397.155,299.1528128 |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | PARAMETER["Dataset_GEOID_BESSEL_Oester | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | reich",0.0],OPERATIONACCURACY[0.05]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GEOID_BESSEL_Oesterreich"],OPERATIONA |
| | | | CCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------|----------------------------------------------|-------------------------------------------------------|
| 9280 | ITRF_2005_To_SA_LLD_Height_1 | VERTTRAN["ITRF_2005_To_SA_LLD_Height_1 | COORDINATEOPERATION["ITRF_2005_To_SA_LLD |
| | | ",GEOGCS["GCS_ITRF_2005",DATUM["D_ITRF | _Height_1",SOURCECRS[VERTCRS["ITRF_2005",DY |
| | | _2005",SPHEROID["GRS_1980",6378137.0,29 | NAMIC[FRAMEEPOCH[2000.0],MODEL["NNR- |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | NUVEL1A+ITRF2005- |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | PMM"]],DATUM["D_ITRF_2005",ELLIPSOID["GRS_ |
| | | ITRF_2005",DATUM["D_ITRF_2005",SPHEROI | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | D["GRS_1980",6378137.0,298.257222101]],P | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | ERTCRS["SA_LLD_height",VDATUM["South_Africa_ |
| | | SA_LLD_height",VDATUM["South_Africa_Lan | Land_Levelling_Datum"],CS[vertical,1],AXIS["Gravi |
| | | d_Levelling_Datum"],PARAMETER["Vertical_S | ty-related height |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | ONCRS[GEOGCRS["GCS_ITRF_2005",DYNAMIC[FR |
| | | ER["Dataset_SAGEOID2010",0.0],OPERATION | AMEEPOCH[2000.0],MODEL["NNR- |
| | | ACCURACY[0.07]] | NUVEL1A+ITRF2005- |
| | | | PMM"]],DATUM["D_ITRF_2005",ELLIPSOID["GRS_ |
| | | | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["SAGEOID2010"],OPERATIONACCURACY[0.0 |
| | | | 7]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|-----------------------------------------------|-------------------------------------------------------|
| 9283 | ETRS89_Height_To_NAP_Height_nlge | VERTTRAN["ETRS89_Height_To_NAP_Height_ | COORDINATEOPERATION["ETRS89_Height_To_NA |
| | o2018 | nlgeo2018",GEOGCS["GCS_ETRS_1989",DATU | P_Height_nlgeo2018",SOURCECRS[VERTCRS["ETRS |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | _1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_ |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |]],VERTCS["ETRS_1989",DATUM["D_ETRS_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 89",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["NAP",VDATUM["Normaal_Amsterdams_ |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | Peil"],CS[vertical,1],AXIS["Gravity-related height |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0]],VERTCS["NAP",VDATUM["Normaal_Amst | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | erdams_Peil"],PARAMETER["Vertical_Shift",0. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ",1.0]],VTMETHOD["GEOID"],PARAMETER["D | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ataset_nlgeo2018",0.0],OPERATIONACCURAC | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Y[0.001]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["nlgeo2018"],OPERATIONACCURACY[0.001]] |
| 9304 | ETRS89_To_HS2- | VERTTRAN["ETRS89_To_HS2- | COORDINATEOPERATION["ETRS89_To_HS2- |
| | VRF_height_HS2GM15_1 | VRF_height_HS2GM15_1",GEOGCS["GCS_ETR | VRF_height_HS2GM15_1",SOURCECRS[VERTCRS[" |
| | | S_1989",DATUM["D_ETRS_1989",SPHEROID[| ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID[" |
| | | "GRS_1980",6378137.0,298.257222101]],PRI | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | IT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 4532925199433]],VERTCS["ETRS_1989",DAT | height |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 378137.0,298.257222101]],PARAMETER["Ver | ERTCRS["HS2- |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | VRF_height",VDATUM["HS2_Vertical_Reference_F |
| | | UNIT["Meter",1.0]],VERTCS["HS2- | rame"],CS[vertical,1],AXIS["Gravity-related height |
| | | VRF_height",VDATUM["HS2_Vertical_Refere | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | nce_Frame"],PARAMETER["Vertical_Shift",0.0 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 1.0]],VTMETHOD["GEOID"],PARAMETER["Dat | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | aset_HS2GM15",0.0],OPERATIONACCURACY[| Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0.001]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["HS2GM15"],OPERATIONACCURACY[0.001]] |

| WKID | Name | WKT1 | WKT2 |
|------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WKID 9325 | NZGD2000_To_NZGD2009_Height_2 | WKT1 VERTTRAN["NZGD2000_To_NZGD2009_Height_2",GEOGCS["GCS_NZGD_2000",DATUM["D_NZGD_2000",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["NZGD_2000",DATUM["D_NZGD_2000",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["NZVD2009_height",VDATUM["New_Zealand_Vertical_Datum_2009"],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_nzgeoid2009",0.0],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["NZGD2000_To_NZGD2 009_Height_2",SOURCECRS[VERTCRS["NZGD_200 0",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980 ",6378137.0,298.257222101,LENGTHUNIT["Meter ",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["NZVD2009_height",VDATUM["New_Zeal and_Vertical_Datum_2009"],CS[vertical,1],AXIS["G ravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 32925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["nzgeoid2009"],OPERATIONACCURACY[0.1]] |
| 9326 | NZGD2000_To_NZGD2016_Height_1 | VERTTRAN["NZGD2000_To_NZGD2016_Height_1",GEOGCS["GCS_NZGD_2000",DATUM["D_NZGD_2000",SPHEROID["GRS_1980",6378 137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["NZGD_2000",DATUM["D_NZGD_2000",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["NZVD2016_height",VDATUM["New_Zealand_Vertical_Datum_2016"],PARAM ETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_New_Zealand_Quasigeoid_2016",0.0],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["NZGD2000_To_NZGD2 016_Height_1",SOURCECRS[VERTCRS["NZGD_200 0",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980 ",6378137.0,298.257222101,LENGTHUNIT["Meter ",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["NZVD2016_height",VDATUM["New_Zeal and_Vertical_Datum_2016"],CS[vertical,1],AXIS["G ravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 32925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["New_Zealand_Quasigeoid_2016"],OPERATI ONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9371 | Vienna_height_To_GHA_height_1 | VERTTRAN["Vienna_height_To_GHA_height_ 1",VERTCS["Vienna_height",VDATUM["Wiene r_Null"],PARAMETER["Vertical_Shift",0.0],PA RAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["GHA",VDATUM["Gebrauchshohen _Adria"],PARAMETER["Vertical_Shift",0.0],PA RAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",156.68],OPERATIONACCUR ACY[0.0]] | COORDINATEOPERATION["Vienna_height_To_GH A_height_1",SOURCECRS[VERTCRS["Vienna_heigh t",VDATUM["Wiener_Null"],CS[vertical,1],AXIS["Gr avity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["GHA",VDATUM["Gebrauchshohen_Adri a"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",156. 68,LENGTHUNIT["Meter",1.0]],OPERATIONACCUR ACY[0.0]] |
| 9410 | ETRS89_Height_To_Alicante_Height_1 | VERTTRAN["ETRS89_Height_To_Alicante_Height_1",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Alicante",VDATUM["Alicante"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_EGM08_REDNAP",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ETRS89_Height_To_Alic ante_Height_1",SOURCECRS[VERTCRS["ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980", 6378137.0,298.257222101,LENGTHUNIT["Meter", 1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[VERTCRS["Alicante",VDATUM["Alicante"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9411 | ETRS89_Height_To_Mallorca_Height_ 1 | VERTTRAN["ETRS89_Height_To_Mallorca_Height_1",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Mallorca_height",VDATUM["Mallorca"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_EGM08_REDNAP",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ETRS89_Height_To_Ma llorca_Height_1",SOURCECRS[VERTCRS["ETRS_198 9",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[V ERTCRS["Mallorca_height",VDATUM["Mallorca"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP"],OPERATIONACCURACY[0.05]] |
| 9412 | ETRS89_Height_To_Menorca_Height_ 1 | VERTTRAN["ETRS89_Height_To_Menorca_He ight_1",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Menorca_height",VDATUM["Menorca"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_EGM08_REDNAP",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ETRS89_Height_To_Me norca_Height_1",SOURCECRS[VERTCRS["ETRS_198 9",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter", 1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[V ERTCRS["Menorca_height",VDATUM["Menorca"], CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9413 | ETRS89_Height_To_Ibiza_Height_1 | VERTTRAN["ETRS89_Height_To_lbiza_Height _1",GEOGCS["GCS_ETRS_1989",DATUM["D_E TRS_1989",SPHEROID["GRS_1980",6378137.0 ,298.257222101]],PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433]],VERT CS["ETRS_1989",DATUM["D_ETRS_1989",SPH EROID["GRS_1980",6378137.0,298.25722210 1]],PARAMETER["Vertical_Shift",0.0],PARAME TER["Direction",1.0],UNIT["Meter",1.0]],VERT CS["Ibiza_height",VDATUM["Ibiza"],PARAMET ER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GE OID"],PARAMETER["Dataset_EGM08_REDNA P",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ETRS89_Height_To_lbiz a_Height_1",SOURCECRS[VERTCRS["ETRS_1989",D ATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",637 8137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Ibiza_height",VDATUM["Ibiza"],CS[vertic al,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP"],OPERATIONACCURACY[0.05]] |
| 9414 | ETRS89_Height_To_Ceuta_2_Height_1 | VERTTRAN["ETRS89_Height_To_Ceuta_2_Height_1",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Ceuta_2_height",VDATUM["Ceuta_2"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_EGM08_REDNAP",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ETRS89_Height_To_Ce uta_2_Height_1",SOURCECRS[VERTCRS["ETRS_198 9",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter", 1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[V ERTCRS["Ceuta_2_height",VDATUM["Ceuta_2"],CS [vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9415 | REGCAN95_Height_To_Lanzarote_Hei | VERTTRAN["REGCAN95_Height_To_Lanzarot | COORDINATEOPERATION["REGCAN95_Height_To_ |
| | ght_1 | e_Height_1",GEOGCS["GCS_REGCAN95",DAT | Lanzarote_Height_1",SOURCECRS[VERTCRS["REGC |
| | | UM["D_Red_Geodesica_de_Canarias_1995", | AN95",DATUM["D_Red_Geodesica_de_Canarias_1 |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | 995",ELLIPSOID["GRS_1980",6378137.0,298.25722 |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | 2101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AX |
| | | ee",0.0174532925199433]],VERTCS["REGCAN | IS["Ellipsoidal height |
| | | 95",DATUM["D_Red_Geodesica_de_Canarias | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _1995",SPHEROID["GRS_1980",6378137.0,29 | ERTCRS["Lanzarote_height",VDATUM["Lanzarote"] |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | ,CS[vertical,1],AXIS["Gravity-related height |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ",1.0]],VERTCS["Lanzarote_height",VDATUM[| ONCRS[GEOGCRS["GCS_REGCAN95",DATUM["D_R |
| | | "Lanzarote"],PARAMETER["Vertical_Shift",0.0 | ed_Geodesica_de_Canarias_1995",ELLIPSOID["GR |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | 1.0]],VTMETHOD["GEOID"],PARAMETER["Dat | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | aset_EGM08_REDNAP_Canarias",0.0],OPERA | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | TIONACCURACY[0.05]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGM08_REDNAP_Canarias"],OPERATIONAC |
| | | | CURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|-----------------------------------------------|-------------------------------------------------|
| 9416 | REGCAN95_Height_To_Fuerteventura | VERTTRAN["REGCAN95_Height_To_Fuerteve | COORDINATEOPERATION["REGCAN95_Height_To_ |
| | _Height_1 | ntura_Height_1",GEOGCS["GCS_REGCAN95", | Fuerteventura_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["D_Red_Geodesica_de_Canarias_19 | REGCAN95",DATUM["D_Red_Geodesica_de_Cana |
| | | 95",SPHEROID["GRS_1980",6378137.0,298.2 | rias_1995",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica |
| | | "Degree",0.0174532925199433]],VERTCS["RE | I,1],AXIS["Ellipsoidal height |
| | | GCAN95",DATUM["D_Red_Geodesica_de_Ca | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | narias_1995",SPHEROID["GRS_1980",637813 | ERTCRS["Fuerteventura_height",VDATUM["Fuerte |
| | | 7.0,298.257222101]],PARAMETER["Vertical_S | ventura"],CS[vertical,1],AXIS["Gravity-related |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | height |
| | | Meter",1.0]],VERTCS["Fuerteventura_height" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ,VDATUM["Fuerteventura"],PARAMETER["Ve | ONCRS[GEOGCRS["GCS_REGCAN95",DATUM["D_R |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ed_Geodesica_de_Canarias_1995",ELLIPSOID["GR |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | RAMETER["Dataset_EGM08_REDNAP_Canari | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | as",0.0],OPERATIONACCURACY[0.05]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGM08_REDNAP_Canarias"],OPERATIONAC |
| | | | CURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|------------------------------------------------------|
| 9417 | REGCAN95_Height_To_Gran_Canaria_ | VERTTRAN["REGCAN95_Height_To_Gran_Ca | COORDINATEOPERATION["REGCAN95_Height_To_ |
| | Height_1 | naria_Height_1",GEOGCS["GCS_REGCAN95", | Gran_Canaria_Height_1",SOURCECRS[VERTCRS["R |
| | | DATUM["D_Red_Geodesica_de_Canarias_19 | EGCAN95",DATUM["D_Red_Geodesica_de_Canari |
| | | 95",SPHEROID["GRS_1980",6378137.0,298.2 | as_1995",ELLIPSOID["GRS_1980",6378137.0,298.2 |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| 57222101,LENGTHUNIT["Meter",1.0]]],CS[vertical, |
| | | "Degree",0.0174532925199433]],VERTCS["RE | 1],AXIS["Ellipsoidal height |
| | | GCAN95",DATUM["D_Red_Geodesica_de_Ca | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | narias_1995",SPHEROID["GRS_1980",637813 | ERTCRS["Gran_Canaria_height",VDATUM["Gran_C |
| | | 7.0,298.257222101]],PARAMETER["Vertical_S | anaria"],CS[vertical,1],AXIS["Gravity-related height |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Meter",1.0]],VERTCS["Gran_Canaria_height", | ONCRS[GEOGCRS["GCS_REGCAN95",DATUM["D_R |
| | | VDATUM["Gran_Canaria"],PARAMETER["Vert | ed_Geodesica_de_Canarias_1995",ELLIPSOID["GR |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | RAMETER["Dataset_EGM08_REDNAP_Canari | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | as",0.0],OPERATIONACCURACY[0.05]] | l,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGM08_REDNAP_Canarias"],OPERATIONAC |
| | | | CURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9418 | REGCAN95_Height_To_Tenerife_Heig | VERTTRAN["REGCAN95_Height_To_Tenerife_ | COORDINATEOPERATION["REGCAN95_Height_To_ |
| | ht_1 | Height_1",GEOGCS["GCS_REGCAN95",DATU | Tenerife_Height_1",SOURCECRS[VERTCRS["REGCA |
| | | M["D_Red_Geodesica_de_Canarias_1995",SP | N95",DATUM["D_Red_Geodesica_de_Canarias_19 |
| | | HEROID["GRS_1980",6378137.0,298.2572221 | 95",ELLIPSOID["GRS_1980",6378137.0,298.257222 |
| | | 01]],PRIMEM["Greenwich",0.0],UNIT["Degree | 101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXI |
| | | ",0.0174532925199433]],VERTCS["REGCAN95 | S["Ellipsoidal height |
| | | ",DATUM["D_Red_Geodesica_de_Canarias_1 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 995",SPHEROID["GRS_1980",6378137.0,298. | ERTCRS["Tenerife_height",VDATUM["Tenerife"],CS |
| | | 257222101]],PARAMETER["Vertical_Shift",0.0 | [vertical,1],AXIS["Gravity-related height |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1.0]],VERTCS["Tenerife_height",VDATUM["Te | ONCRS[GEOGCRS["GCS_REGCAN95",DATUM["D_R |
| | | nerife"],PARAMETER["Vertical_Shift",0.0],PA | ed_Geodesica_de_Canarias_1995",ELLIPSOID["GR |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | |],VTMETHOD["GEOID"],PARAMETER["Dataset | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | _EGM08_REDNAP_Canarias",0.0],OPERATION | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | ACCURACY[0.05]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGM08_REDNAP_Canarias"],OPERATIONAC |
| | | | CURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|--------------------------------------------|--------------------------------------------------|
| 9419 | REGCAN95_Height_To_La_Gomera_H | VERTTRAN["REGCAN95_Height_To_La_Gome | COORDINATEOPERATION["REGCAN95_Height_To_ |
| | eight_1 | ra_Height_1",GEOGCS["GCS_REGCAN95",DA | La_Gomera_Height_1",SOURCECRS[VERTCRS["REG |
| | | TUM["D_Red_Geodesica_de_Canarias_1995" | CAN95",DATUM["D_Red_Geodesica_de_Canarias_ |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | 1995",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | 22101]],PRIMEM["Greenwich",0.0],UNIT["De | 22101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],A |
| | | gree",0.0174532925199433]],VERTCS["REGC | XIS["Ellipsoidal height |
| | | AN95",DATUM["D_Red_Geodesica_de_Canar | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ias_1995",SPHEROID["GRS_1980",6378137.0, | ERTCRS["La_Gomera_height",VDATUM["La_Gome |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ra"],CS[vertical,1],AXIS["Gravity-related height |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ter",1.0]],VERTCS["La_Gomera_height",VDAT | ONCRS[GEOGCRS["GCS_REGCAN95",DATUM["D_R |
| | | UM["La_Gomera"],PARAMETER["Vertical_Shi | ed_Geodesica_de_Canarias_1995",ELLIPSOID["GR |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | ER["Dataset_EGM08_REDNAP_Canarias",0.0] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | ,OPERATIONACCURACY[0.05]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGM08_REDNAP_Canarias"],OPERATIONAC |
| | | | CURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|--------------------------------------------|--------------------------------------------------|
| 9420 | REGCAN95_Height_To_La_Palma_Hei | VERTTRAN["REGCAN95_Height_To_La_Palma | COORDINATEOPERATION["REGCAN95_Height_To_ |
| | ght_1 | _Height_1",GEOGCS["GCS_REGCAN95",DATU | La_Palma_Height_1",SOURCECRS[VERTCRS["REGC |
| | | M["D_Red_Geodesica_de_Canarias_1995",SP | AN95",DATUM["D_Red_Geodesica_de_Canarias_1 |
| | | HEROID["GRS_1980",6378137.0,298.2572221 | 995",ELLIPSOID["GRS_1980",6378137.0,298.25722 |
| | | 01]],PRIMEM["Greenwich",0.0],UNIT["Degree | 2101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AX |
| | | ",0.0174532925199433]],VERTCS["REGCAN95 | IS["Ellipsoidal height |
| | | ",DATUM["D_Red_Geodesica_de_Canarias_1 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 995",SPHEROID["GRS_1980",6378137.0,298. | ERTCRS["La_Palma_height",VDATUM["La_Palma"] |
| | | 257222101]],PARAMETER["Vertical_Shift",0.0 | ,CS[vertical,1],AXIS["Gravity-related height |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1.0]],VERTCS["La_Palma_height",VDATUM["L | ONCRS[GEOGCRS["GCS_REGCAN95",DATUM["D_R |
| | | a_Palma"],PARAMETER["Vertical_Shift",0.0], | ed_Geodesica_de_Canarias_1995",ELLIPSOID["GR |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | .0]],VTMETHOD["GEOID"],PARAMETER["Data | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | set_EGM08_REDNAP_Canarias",0.0],OPERATI | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | ONACCURACY[0.05]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGM08_REDNAP_Canarias"],OPERATIONAC |
| | | | CURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9421 | REGCAN95_Height_To_El_Hierro_Height_1 | VERTTRAN["REGCAN95_Height_To_El_Hierro _Height_1",GEOGCS["GCS_REGCAN95",DATU M["D_Red_Geodesica_de_Canarias_1995",SP HEROID["GRS_1980",6378137.0,298.2572221 01]],PRIMEM["Greenwich",0.0],UNIT["Degree ",0.0174532925199433]],VERTCS["REGCAN95 ",DATUM["D_Red_Geodesica_de_Canarias_1 995",SPHEROID["GRS_1980",6378137.0,298. 257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter", 1.0]],VERTCS["El_Hierro_height",VDATUM["El_Hierro"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Datas et_EGM08_REDNAP_Canarias",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["REGCAN95_Height_To_El_Hierro_Height_1",SOURCECRS[VERTCRS["REGC AN95",DATUM["D_Red_Geodesica_de_Canarias_1 995",ELLIPSOID["GRS_1980",6378137.0,298.25722 2101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AX IS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["El_Hierro_height",VDATUM["El_Hierro"], CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_REGCAN95",DATUM["D_R ed_Geodesica_de_Canarias_1995",ELLIPSOID["GR S_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU NIT["Degree",0.0174532925199433]],CS[ellipsoida I,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP_Canarias"],OPERATIONAC |
| 9484 | ETRS89_To_NN54_Height_1 | VERTTRAN["ETRS89_To_NN54_Height_1",GE OGCS["GCS_ETRS_1989",DATUM["D_ETRS_1 989",SPHEROID["GRS_1980",6378137.0,298. 257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],VERTCS["E TRS_1989",DATUM["D_ETRS_1989",SPHEROI D["GRS_1980",6378137.0,298.257222101]],P ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS[" NN54",VDATUM["Norway_Normal_Null_195 4"],PARAMETER["Vertical_Shift",0.0],PARAM ETER["Direction",1.0],UNIT["Meter",1.0]],VT METHOD["GEOID"],PARAMETER["Dataset_hr ef2008a",0.0],OPERATIONACCURACY[0.02]] | CURACY[0.05]] COORDINATEOPERATION["ETRS89_To_NN54_Height_1",SOURCECRS[VERTCRS["ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height(h)",up,LENGTHUNIT["Meter",1.0]]],TARGETCRS[VERTCRS["NN54",VDATUM["Norway_Normal_Null_1954"],CS[vertical,1],AXIS["Gravity-related height(h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude(lat)",north,ORDER[1]],AXIS["Longitude(lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["href2008a"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9485 | ETRS89_To_NN2000_Height_1 | VERTTRAN["ETRS89_To_NN2000_Height_1", GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS _1989",SPHEROID["GRS_1980",6378137.0,29 8.257222101]],PRIMEM["Greenwich",0.0],UN IT["Degree",0.0174532925199433]],VERTCS[" ETRS_1989",DATUM["D_ETRS_1989",SPHERO ID["GRS_1980",6378137.0,298.257222101]],P ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS[" NN2000_height",VDATUM["Norway_Normal _Null_2000"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter ",1.0]],VTMETHOD["GEOID"],PARAMETER["D ataset_HREF2018B_NN2000_EUREF89",0.0],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["ETRS89_To_NN2000_H eight_1",SOURCECRS[VERTCRS["ETRS_1989",DAT UM["D_ETRS_1989",ELLIPSOID["GRS_1980",63781 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["NN2000_height",DYNAMIC[FRAMEEPOC H[2000.0],MODEL["Levelling-based"]],VDATUM["Norway_Normal_Null_2000"], CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["HREF2018B_NN2000_EUREF89"],OPERATIO NACCURACY[0.02]] |
| 9551 | Antalya_Height_To_EVRF2019_Height _2 | VERTTRAN["Antalya_Height_To_EVRF2019_H eight_2",VERTCS["Antalya",VDATUM["Antaly a"],PARAMETER["Vertical_Shift",0.0],PARAM ETER["Direction",1.0],UNIT["Meter",1.0]],VER TCS["EVRF_2019",VDATUM["European_Verti cal_Reference_Frame_2019"],PARAMETER[" Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.394],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["Antalya_Height_To_EV RF2019_Height_2",SOURCECRS[VERTCRS["Antalya ",VDATUM["Antalya"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2019",VDATUM["European_Verti cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",-0.394,LENGTHUNIT["Meter",1.0]],OPERATIONACC URACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9552 | Antalya_Height_To_EVRF2019_Mean-Tide_Height_2 | VERTTRAN["Antalya_Height_To_EVRF2019_ Mean- Tide_Height_2",VERTCS["Antalya",VDATUM[" Antalya"],PARAMETER["Vertical_Shift",0.0],P ARAMETER["Direction",1.0],UNIT["Meter",1. 0]],VERTCS["EVRF_2019_mean- tide",VDATUM["European_Vertical_Referenc e_Frame_2019_mean_tide"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ Offset"],PARAMETER["Vertical_Offset",- 0.448],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["Antalya_Height_To_EV RF2019_Mean- Tide_Height_2",SOURCECRS[VERTCRS["Antalya",V DATUM["Antalya"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2019_mean-tide",VDATUM["European_Vertical_Reference_Frame_2019_mean_tide"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.448,LENGTHUNIT["Meter",1.0]],OPERATIONACC |
| 9553 | Cascais_Height_To_EVRF2019_Height _2 | VERTTRAN["Cascais_Height_To_EVRF2019_H eight_2",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378 137.0,298.257222101]],PRIMEM["Greenwich ",0.0],UNIT["Degree",0.0174532925199433]], VERTCS["Cascais",VDATUM["Cascais"],PARA METER["Vertical_Shift",0.0],PARAMETER["Dir ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR F_2019",VDATUM["European_Vertical_Refer ence_Frame_2019"],PARAMETER["Vertical_S hift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VTMETHOD["Vertical_Offset_with_Grid"],PARAMETER["Dataset_pt_2019z",0 .0],OPERATIONACCURACY[0.028]] | URACY[0.02]] COORDINATEOPERATION["Cascais_Height_To_EV RF2019_Height_2",SOURCECRS[VERTCRS["Cascais ",VDATUM["Cascais"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2019",VDATUM["European_Verti cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["Vertical_Offset_with_Grid"],PARAMETERFILE["pt_2019z"],OPERATION ACCURACY[0.028]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|-------------------------------------------------|
| 9554 | Cascais_Height_To_EVRF2019_Mean- | VERTTRAN["Cascais_Height_To_EVRF2019_M | COORDINATEOPERATION["Cascais_Height_To_EV |
| | Tide_Height_2 | ean- | RF2019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["Cascais",V |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | DATUM["Cascais"],CS[vertical,1],AXIS["Gravity- |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Cascais",VDATUM["Cascais"],P | VERTCRS["EVRF_2019_mean- |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| tide",VDATUM["European_Vertical_Reference_Fra |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_pt | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.024]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["pt_2019m"],OPERATION |
| | | | ACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 9555 | DHHN2016_Height_To_EVRF2019_Hei | VERTTRAN["DHHN2016_Height_To_EVRF201 | COORDINATEOPERATION["DHHN2016_Height_To |
| | ght_2 | 9_Height_2",GEOGCS["GCS_ETRS_1989",DAT | _EVRF2019_Height_2",SOURCECRS[VERTCRS["DH |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | HN2016_(height)",VDATUM["Deutsches_Hauptho |
| | | 378137.0,298.257222101]],PRIMEM["Green | ehennetz_2016"],CS[vertical,1],AXIS["Gravity- |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | related height |
| | | 33]],VERTCS["DHHN2016_(height)",VDATUM[| (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | "Deutsches_Haupthoehennetz_2016"],PARA | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | F_2019",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2019"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_wi | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | th_Grid"],PARAMETER["Dataset_de_2019z",0 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | .0],OPERATIONACCURACY[0.02]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["de_2019z"],OPERATION |
| | | | ACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 9556 | DHHN2016_Height_To_EVRF2019_Me | VERTTRAN["DHHN2016_Height_To_EVRF201 | COORDINATEOPERATION["DHHN2016_Height_To |
| | an-Tide_Height_2 | 9_Mean- | _EVRF2019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["DHHN2016 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | _(height)",VDATUM["Deutsches_Haupthoehennet |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | z_2016"],CS[vertical,1],AXIS["Gravity-related |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | height |
| | | 433]],VERTCS["DHHN2016_(height)",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | M["Deutsches_Haupthoehennetz_2016"],PA | VERTCRS["EVRF_2019_mean- |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | tide",VDATUM["European_Vertical_Reference_Fra |
| | | Direction",1.0],UNIT["Meter",1.0]],VERTCS["E | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | VRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_de | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.008]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["de_2019m"],OPERATIO |
| | | | NACCURACY[0.008]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 9557 | GHA_Height_To_EVRF2019_Height_2 | VERTTRAN["GHA_Height_To_EVRF2019_Heig | COORDINATEOPERATION["GHA_Height_To_EVRF2 |
| | | ht_2",GEOGCS["GCS_ETRS_1989",DATUM["D | 019_Height_2",SOURCECRS[VERTCRS["GHA",VDAT |
| | | _ETRS_1989",SPHEROID["GRS_1980",637813 | UM["Gebrauchshohen_Adria"],CS[vertical,1],AXIS[|
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | "Gravity-related height |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | RTCS["GHA",VDATUM["Gebrauchshohen_Adr | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | ia"],PARAMETER["Vertical_Shift",0.0],PARAM | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | Gravity-related height |
| | | TCS["EVRF_2019",VDATUM["European_Verti | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | cal_Reference_Frame_2019"],PARAMETER[" | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_at | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019z",0.0],OPERATIONACCURACY[0.136]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["at_2019z"],OPERATION |
| | | | ACCURACY[0.136]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------|----------------------------------------------|-------------------------------------------------|
| 9558 | GHA_Height_To_EVRF2019_Mean- | VERTTRAN["GHA_Height_To_EVRF2019_Mea | COORDINATEOPERATION["GHA_Height_To_EVRF2 |
| | Tide_Height_2 | n- | 019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["GHA",VDA |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | TUM["Gebrauchshohen_Adria"],CS[vertical,1],AXIS |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | ["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["GHA",VDATUM["Gebrauchsho | VERTCRS["EVRF_2019_mean- |
| | | hen_Adria"],PARAMETER["Vertical_Shift",0.0] | tide",VDATUM["European_Vertical_Reference_Fra |
| | | ,PARAMETER["Direction",1.0],UNIT["Meter", | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | 1.0]],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_at | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.13]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["at_2019m"],OPERATION |
| | | | ACCURACY[0.13]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9559 | LHN95_Height_To_EVRF2019_Height_ | VERTTRAN["LHN95_Height_To_EVRF2019_He | COORDINATEOPERATION["LHN95_Height_To_EVR |
| | 2 | ight_2",GEOGCS["GCS_ETRS_1989",DATUM[" | F2019_Height_2",SOURCECRS[VERTCRS["LHN95", |
| | | D_ETRS_1989",SPHEROID["GRS_1980",63781 | VDATUM["Landeshohennetz_1995"],CS[vertical,1] |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | ,AXIS["Gravity-related height |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ERTCS["LHN95",VDATUM["Landeshohennetz | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | _1995"],PARAMETER["Vertical_Shift",0.0],PA | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | Gravity-related height |
| | |],VERTCS["EVRF_2019",VDATUM["European_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Reference_Frame_2019"],PARAMET | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["Ver | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | tical_Offset_with_Grid"],PARAMETER["Datas | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | et_ch_2019z",0.0],OPERATIONACCURACY[0.1 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 46]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ch_2019z"],OPERATION |
| | | | ACCURACY[0.146]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 9560 | LHN95_Height_To_EVRF2019_Mean- | VERTTRAN["LHN95_Height_To_EVRF2019_M | COORDINATEOPERATION["LHN95_Height_To_EVR |
| | Tide_Height_2 | ean- | F2019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["LHN95",VD |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ATUM["Landeshohennetz_1995"],CS[vertical,1],AX |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | IS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["LHN95",VDATUM["Landeshoh | VERTCRS["EVRF_2019_mean- |
| | | ennetz_1995"],PARAMETER["Vertical_Shift", | tide",VDATUM["European_Vertical_Reference_Fra |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | er",1.0]],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_ch | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.142]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ch_2019m"],OPERATION |
| | | | ACCURACY[0.142]] |

| WKID | Name | WKT1 | WKT2 |
|------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9561 | ODN_Height_To_EVRF2019_Height_2 | VERTTRAN["ODN_Height_To_EVRF2019_Height_2",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["Newlyn",VDATUM["Ordnance_Datum_Newlyn"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2019",VDATUM["European_Vertical_Reference_Frame_2019"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset_with_Grid"],PARAMETER["Dataset_gb_2019z",0.0],OPERATIONACCURACY[0.024]] | COORDINATEOPERATION["ODN_Height_To_EVRF 2019_Height_2",SOURCECRS[VERTCRS["Newlyn",V DATUM["Ordnance_Datum_Newlyn"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2019",VDATUM["European_Verti cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["Vertical_Offset_with_Grid"],PARAMETERFILE["gb_2019z"],OPERATION ACCURACY[0.024]] |
| 9562 | ODN_Height_To_EVRF2019_Mean-Tide_Height_2 | VERTTRAN["ODN_Height_To_EVRF2019_Mea n- Tide_Height_2",VERTCS["Newlyn",VDATUM[" Ordnance_Datum_Newlyn"],PARAMETER["Ve rtical_Shift",0.0],PARAMETER["Direction",1.0] ,UNIT["Meter",1.0]],VERTCS["EVRF_2019_me an- tide",VDATUM["European_Vertical_Referenc e_Frame_2019_mean_tide"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset",- 0.17],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["ODN_Height_To_EVRF 2019_Mean-Tide_Height_2",SOURCECRS[VERTCRS["Newlyn",V DATUM["Ordnance_Datum_Newlyn"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2019_mean-tide",VDATUM["European_Vertical_Reference_Frame_2019_mean_tide"],CS[vertical,1],AXIS["Gravit y-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",-0.17,LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9563 | Oostende_Height_To_EVRF2019_Heig | VERTTRAN["Oostende_Height_To_EVRF2019 | COORDINATEOPERATION["Oostende_Height_To_E |
| | ht_2 | _Height_2",GEOGCS["GCS_ETRS_1989",DATU | VRF2019_Height_2",SOURCECRS[VERTCRS["Ooste |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | nde",VDATUM["Oostende"],CS[vertical,1],AXIS["Gr |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | avity-related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["Oostende",VDATUM["Oostende"], | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | Gravity-related height |
| | | ["EVRF_2019",VDATUM["European_Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Reference_Frame_2019"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_with_Grid"],PARAMETER["Dataset_be_20 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 19z",0.0],OPERATIONACCURACY[0.042]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["be_2019z"],OPERATION |
| | | | ACCURACY[0.042]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 9564 | Oostende_Height_To_EVRF2019_Mea | VERTTRAN["Oostende_Height_To_EVRF2019 | COORDINATEOPERATION["Oostende_Height_To_E |
| | n-Tide_Height_2 | _Mean- | VRF2019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["Oostende" |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ,VDATUM["Oostende"],CS[vertical,1],AXIS["Gravity |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | -related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Oostende",VDATUM["Oosten | VERTCRS["EVRF_2019_mean- |
| | | de"],PARAMETER["Vertical_Shift",0.0],PARA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_be | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.04]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["be_2019m"],OPERATIO |
| | | | NACCURACY[0.04]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9565 | SVS2010_Height_To_EVRF2019_Heigh | VERTTRAN["SVS2010_Height_To_EVRF2019_ | COORDINATEOPERATION["SVS2010_Height_To_E |
| | t_2 | Height_2",GEOGCS["GCS_ETRS_1989",DATU | VRF2019_Height_2",SOURCECRS[VERTCRS["SVS20 |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | 10",VDATUM["Slovenian_Vertical_System_2010"], |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | CS[vertical,1],AXIS["Gravity-related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["SVS2010",VDATUM["Slovenian_V | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | ertical_System_2010"],PARAMETER["Vertical | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | Gravity-related height |
| | | T["Meter",1.0]],VERTCS["EVRF_2019",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | M["European_Vertical_Reference_Frame_20 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 19"],PARAMETER["Vertical_Shift",0.0],PARA | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TMETHOD["Vertical_Offset_with_Grid"],PAR | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | AMETER["Dataset_si_2019z",0.0],OPERATION | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ACCURACY[0.006]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["si_2019z"],OPERATIONA |
| | | | CCURACY[0.006]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|-------------------------------------------------|
| 9566 | SVS2010_Height_To_EVRF2019_Mean | VERTTRAN["SVS2010_Height_To_EVRF2019_ | COORDINATEOPERATION["SVS2010_Height_To_E |
| | -Tide_Height_2 | Mean- | VRF2019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["SVS2010", |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | VDATUM["Slovenian_Vertical_System_2010"],CS[v |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | ertical,1],AXIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["SVS2010",VDATUM["Slovenia | VERTCRS["EVRF_2019_mean- |
| | | n_Vertical_System_2010"],PARAMETER["Vert | tide",VDATUM["European_Vertical_Reference_Fra |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | UNIT["Meter",1.0]],VERTCS["EVRF_2019_me | y-related height |
| | | an- | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | tide",VDATUM["European_Vertical_Referenc | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Offset_with_Grid"],PARAMETER["Dataset_si_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 2019m",0.0],OPERATIONACCURACY[0.008]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["si_2019m"],OPERATION |
| | | | ACCURACY[0.008]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 9567 | Trieste_Height_To_EVRF2019_Height_ | VERTTRAN["Trieste_Height_To_EVRF2019_H | COORDINATEOPERATION["Trieste_Height_To_EVR |
| | 2 | eight_2",GEOGCS["GCS_ETRS_1989",DATUM[| F2019_Height_2",SOURCECRS[VERTCRS["Trieste_h |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | eight",VDATUM["Trieste"],CS[vertical,1],AXIS["Gra |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | vity-related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Trieste_height",VDATUM["Trieste"], | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | Gravity-related height |
| | | ["EVRF_2019",VDATUM["European_Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Reference_Frame_2019"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_with_Grid"],PARAMETER["Dataset_mk_20 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 19z",0.0],OPERATIONACCURACY[0.042]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["mk_2019z"],OPERATION |
| | | | ACCURACY[0.042]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 9568 | Trieste_Height_To_EVRF2019_Mean- | VERTTRAN["Trieste_Height_To_EVRF2019_M | COORDINATEOPERATION["Trieste_Height_To_EVR |
| | Tide_Height_2 | ean- | F2019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["Trieste_hei |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ght",VDATUM["Trieste"],CS[vertical,1],AXIS["Gravi |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | ty-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Trieste_height",VDATUM["Tri | VERTCRS["EVRF_2019_mean- |
| | | este"],PARAMETER["Vertical_Shift",0.0],PARA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_m | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | k_2019m",0.0],OPERATIONACCURACY[0.044] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["mk_2019m"],OPERATIO |
| | | | NACCURACY[0.044]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 9569 | Trieste_Height_To_EVRF2019_Height_ | VERTTRAN["Trieste_Height_To_EVRF2019_H | COORDINATEOPERATION["Trieste_Height_To_EVR |
| | 3 | eight_3",GEOGCS["GCS_ETRS_1989",DATUM[| F2019_Height_3",SOURCECRS[VERTCRS["Trieste_h |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | eight",VDATUM["Trieste"],CS[vertical,1],AXIS["Gra |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | vity-related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["Trieste_height",VDATUM["Trieste"], | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | Gravity-related height |
| | | ["EVRF_2019",VDATUM["European_Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Reference_Frame_2019"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_with_Grid"],PARAMETER["Dataset_ba_20 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 19z",0.0],OPERATIONACCURACY[0.012]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ba_2019z"],OPERATION |
| | | | ACCURACY[0.012]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 9570 | Trieste_Height_To_EVRF2019_Mean- | VERTTRAN["Trieste_Height_To_EVRF2019_M | COORDINATEOPERATION["Trieste_Height_To_EVR |
| | Tide_Height_3 | ean- | F2019_Mean- |
| | | Tide_Height_3",GEOGCS["GCS_ETRS_1989",D | Tide_Height_3",SOURCECRS[VERTCRS["Trieste_hei |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ght",VDATUM["Trieste"],CS[vertical,1],AXIS["Gravi |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | ty-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Trieste_height",VDATUM["Tri | VERTCRS["EVRF_2019_mean- |
| | | este"],PARAMETER["Vertical_Shift",0.0],PARA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_ba | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.01]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ba_2019m"],OPERATIO |
| | | | NACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9571 | Baltic_1982_Height_To_EVRF2019_He | VERTTRAN["Baltic_1982_Height_To_EVRF201 | COORDINATEOPERATION["Baltic_1982_Height_To |
| | ight_1 | 9_Height_1",GEOGCS["GCS_ETRS_1989",DAT | _EVRF2019_Height_1",SOURCECRS[VERTCRS["Balt |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | ic_1982",VDATUM["Baltic_1982"],CS[vertical,1],A |
| | | 378137.0,298.257222101]],PRIMEM["Green | XIS["Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Baltic_1982",VDATUM["Baltic_ | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | 1982"],PARAMETER["Vertical_Shift",0.0],PAR | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | Gravity-related height |
| | | VERTCS["EVRF_2019",VDATUM["European_V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ertical_Reference_Frame_2019"],PARAMETE | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["Verti | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | cal_Offset_with_Grid"],PARAMETER["Dataset | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _bgalt_2019z",0.0],OPERATIONACCURACY[0. | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 048]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["bgalt_2019z"],OPERATI |
| | | | ONACCURACY[0.048]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9572 | Baltic_1982_Height_To_EVRF2019_M | VERTTRAN["Baltic_1982_Height_To_EVRF201 | COORDINATEOPERATION["Baltic_1982_Height_To |
| | ean-Tide_Height_1 | 9_Mean- | _EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Baltic_198 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | 2",VDATUM["Baltic_1982"],CS[vertical,1],AXIS["Gr |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | avity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Baltic_1982",VDATUM["Baltic | VERTCRS["EVRF_2019_mean- |
| | | _1982"],PARAMETER["Vertical_Shift",0.0],PA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | |],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_bg | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | alt_2019m",0.0],OPERATIONACCURACY[0.04 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | [2]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["bgalt_2019m"],OPERATI |
| | | | ONACCURACY[0.042]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9573 | N2000_Height_To_EVRF2019_Height_ | VERTTRAN["N2000_Height_To_EVRF2019_He | COORDINATEOPERATION["N2000_Height_To_EVR |
| | 1 | ight_1",GEOGCS["GCS_ETRS_1989",DATUM[" | F2019_Height_1",SOURCECRS[VERTCRS["N2000_h |
| | | D_ETRS_1989",SPHEROID["GRS_1980",63781 | eight",VDATUM["N2000"],CS[vertical,1],AXIS["Gra |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | vity-related height |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ERTCS["N2000_height",VDATUM["N2000"],P | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | Gravity-related height |
| | | EVRF_2019",VDATUM["European_Vertical_R | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | eference_Frame_2019"],PARAMETER["Vertic | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | NIT["Meter",1.0]],VTMETHOD["Vertical_Offs | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | et_with_Grid"],PARAMETER["Dataset_fi_201 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 9z",0.0],OPERATIONACCURACY[0.004]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["fi_2019z"],OPERATIONA |
| | | | CCURACY[0.004]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|--------------------------------------------------|
| 9574 | N2000_Height_To_EVRF2019_Mean- | VERTTRAN["N2000_Height_To_EVRF2019_M | COORDINATEOPERATION["N2000_Height_To_EVR |
| | Tide_Height_1 | ean- | F2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["N2000_hei |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ght",VDATUM["N2000"],CS[vertical,1],AXIS["Gravit |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | y-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["N2000_height",VDATUM["N2 | VERTCRS["EVRF_2019_mean- |
| | | 000"],PARAMETER["Vertical_Shift",0.0],PARA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_fi_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 2019m",0.0],OPERATIONACCURACY[0.024]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["fi_2019m"],OPERATION |
| | | | ACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|----------------------------------------------------|
| 9575 | NGF_IGN69_Height_To_EVRF2019_He | VERTTRAN["NGF_IGN69_Height_To_EVRF201 | COORDINATEOPERATION["NGF_IGN69_Height_To |
| | ight_1 | 9_Height_1",GEOGCS["GCS_ETRS_1989",DAT | _EVRF2019_Height_1",SOURCECRS[VERTCRS["NGF |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | _IGN69",VDATUM["Nivellement_General_de_la_F |
| | | 378137.0,298.257222101]],PRIMEM["Green | rance_IGN69"],CS[vertical,1],AXIS["Gravity-related |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | height |
| | | 33]],VERTCS["NGF_IGN69",VDATUM["Nivelle | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ment_General_de_la_France_lGN69"],PARA | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | Gravity-related height |
| | | F_2019",VDATUM["European_Vertical_Refer | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ence_Frame_2019"],PARAMETER["Vertical_S | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Meter",1.0]],VTMETHOD["Vertical_Offset_wi | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | th_Grid"],PARAMETER["Dataset_fr_2019z",0. | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0],OPERATIONACCURACY[0.108]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["fr_2019z"],OPERATIONA |
| | | | CCURACY[0.108]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 9576 | NGF_IGN69_Height_To_EVRF2019_M | VERTTRAN["NGF_IGN69_Height_To_EVRF201 | COORDINATEOPERATION["NGF_IGN69_Height_To |
| | ean-Tide_Height_1 | 9_Mean- | _EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["NGF_IGN6 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | 9",VDATUM["Nivellement_General_de_la_France |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | _IGN69"],CS[vertical,1],AXIS["Gravity-related |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | height |
| | | 433]],VERTCS["NGF_IGN69",VDATUM["Nivell | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ement_General_de_la_France_IGN69"],PARA | VERTCRS["EVRF_2019_mean- |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | tide",VDATUM["European_Vertical_Reference_Fra |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | F_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_fr_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 2019m",0.0],OPERATIONACCURACY[0.086]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["fr_2019m"],OPERATION |
| | | | ACCURACY[0.086]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|---------------------------------------------|--------------------------------------------------|
| 9577 | EOMA_1980_Height_To_EVRF2019_H | VERTTRAN["EOMA_1980_Height_To_EVRF20 | COORDINATEOPERATION["EOMA_1980_Height_T |
| | eight_1 | 19_Height_1",GEOGCS["GCS_ETRS_1989",DA | o_EVRF2019_Height_1",SOURCECRS[VERTCRS["EO |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | MA_1980",VDATUM["Baltic_1980"],CS[vertical,1], |
| | | 6378137.0,298.257222101]],PRIMEM["Green | AXIS["Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["EOMA_1980",VDATUM["Baltic_ | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | 1980"],PARAMETER["Vertical_Shift",0.0],PAR | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | Gravity-related height |
| | | VERTCS["EVRF_2019",VDATUM["European_V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ertical_Reference_Frame_2019"],PARAMETE | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["Verti | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | cal_Offset_with_Grid"],PARAMETER["Dataset | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _hu_2019z",0.0],OPERATIONACCURACY[0.00 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | [6]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["hu_2019z"],OPERATION |
| | | | ACCURACY[0.006]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|--------------------------------------------------|
| 9578 | EOMA_1980_Height_To_EVRF2019_M | VERTTRAN["EOMA_1980_Height_To_EVRF20 | COORDINATEOPERATION["EOMA_1980_Height_T |
| | ean-Tide_Height_1 | 19_Mean- | o_EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["EOMA_198 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | 0",VDATUM["Baltic_1980"],CS[vertical,1],AXIS["Gr |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | avity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["EOMA_1980",VDATUM["Baltic | VERTCRS["EVRF_2019_mean- |
| | | _1980"],PARAMETER["Vertical_Shift",0.0],PA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | |],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_hu | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.01]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["hu_2019m"],OPERATIO |
| | | | NACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9579 | Latvia_2000_Height_To_EVRF2019_H | VERTTRAN["Latvia_2000_Height_To_EVRF20 | COORDINATEOPERATION["Latvia_2000_Height_To |
| | eight_1 | 19_Height_1",GEOGCS["GCS_ETRS_1989",DA | _EVRF2019_Height_1",SOURCECRS[VERTCRS["Latv |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | ia_2000_(height)",VDATUM["Latvian_Height_Syst |
| | | 6378137.0,298.257222101]],PRIMEM["Green | em_2000"],CS[vertical,1],AXIS["Gravity-related |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | height |
| | | 33]],VERTCS["Latvia_2000_(height)",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | M["Latvian_Height_System_2000"],PARAMET | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | on",1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2 | Gravity-related height |
| | | 019",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019"],PARAMETER["Vertical_Shift | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ter",1.0]],VTMETHOD["Vertical_Offset_with_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Grid"],PARAMETER["Dataset_lv_2019z",0.0], | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | OPERATIONACCURACY[0.006]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["lv_2019z"],OPERATIONA |
| | | | CCURACY[0.006]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9580 | Latvia_2000_Height_To_EVRF2019_M | VERTTRAN["Latvia_2000_Height_To_EVRF20 | COORDINATEOPERATION["Latvia_2000_Height_To |
| | ean-Tide_Height_1 | 19_Mean- | _EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Latvia_200 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | 0_(height)",VDATUM["Latvian_Height_System_20 |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | 00"],CS[vertical,1],AXIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Latvia_2000_(height)",VDATU | VERTCRS["EVRF_2019_mean- |
| | | M["Latvian_Height_System_2000"],PARAMET | tide",VDATUM["European_Vertical_Reference_Fra |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | on",1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2 | y-related height |
| | | 019_mean- | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | tide",VDATUM["European_Vertical_Referenc | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Offset_with_Grid"],PARAMETER["Dataset_lv_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 2019m",0.0],OPERATIONACCURACY[0.008]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["lv_2019m"],OPERATION |
| | | | ACCURACY[0.008]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|---------------------------------------------|--------------------------------------------------|
| 9581 | NAP_Height_To_EVRF2019_Height_1 | VERTTRAN["NAP_Height_To_EVRF2019_Heig | COORDINATEOPERATION["NAP_Height_To_EVRF2 |
| | | ht_1",GEOGCS["GCS_ETRS_1989",DATUM["D | 019_Height_1",SOURCECRS[VERTCRS["NAP",VDAT |
| | | _ETRS_1989",SPHEROID["GRS_1980",637813 | UM["Normaal_Amsterdams_Peil"],CS[vertical,1],A |
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | XIS["Gravity-related height |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | RTCS["NAP",VDATUM["Normaal_Amsterdam | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | s_Peil"],PARAMETER["Vertical_Shift",0.0],PA | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | Gravity-related height |
| | |],VERTCS["EVRF_2019",VDATUM["European_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Reference_Frame_2019"],PARAMET | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["Ver | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | tical_Offset_with_Grid"],PARAMETER["Datas | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | et_nl_2019z",0.0],OPERATIONACCURACY[0.0 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 16]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["nl_2019z"],OPERATIONA |
| | | | CCURACY[0.016]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------|----------------------------------------------|-------------------------------------------------|
| 9582 | NAP_Height_To_EVRF2019_Mean- | VERTTRAN["NAP_Height_To_EVRF2019_Mea | COORDINATEOPERATION["NAP_Height_To_EVRF2 |
| | Tide_Height_1 | n- | 019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["NAP",VDA |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | TUM["Normaal_Amsterdams_Peil"],CS[vertical,1], |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | AXIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["NAP",VDATUM["Normaal_Am | VERTCRS["EVRF_2019_mean- |
| | | sterdams_Peil"],PARAMETER["Vertical_Shift", | tide",VDATUM["European_Vertical_Reference_Fra |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | er",1.0]],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_nl | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.012]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["nl_2019m"],OPERATION |
| | | | ACCURACY[0.012]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|-----------------------------------------------|--------------------------------------------------|
| 9583 | Constanta_Height_To_EVRF2019_Heig | VERTTRAN["Constanta_Height_To_EVRF2019 | COORDINATEOPERATION["Constanta_Height_To_ |
| | ht_1 | _Height_1",GEOGCS["GCS_ETRS_1989",DATU | EVRF2019_Height_1",SOURCECRS[VERTCRS["Cons |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | tanta",VDATUM["Constanta"],CS[vertical,1],AXIS[" |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | Gravity-related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["Constanta",VDATUM["Constanta" | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | |],PARAMETER["Vertical_Shift",0.0],PARAMET | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | Gravity-related height |
| | | S["EVRF_2019",VDATUM["European_Vertical | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | _Reference_Frame_2019"],PARAMETER["Ver | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | UNIT["Meter",1.0]],VTMETHOD["Vertical_Off | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | set_with_Grid"],PARAMETER["Dataset_ro_20 | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 19z",0.0],OPERATIONACCURACY[0.12]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ro_2019z"],OPERATION |
| | | | ACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9645 | Constanta_Height_To_EVRF2019_Mea | VERTTRAN["Constanta_Height_To_EVRF2019 | COORDINATEOPERATION["Constanta_Height_To_ |
| | n-Tide_Height_1 | _Mean- | EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Constanta" |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ,VDATUM["Constanta"],CS[vertical,1],AXIS["Gravit |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | y-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Constanta",VDATUM["Consta | VERTCRS["EVRF_2019_mean- |
| | | nta"],PARAMETER["Vertical_Shift",0.0],PARA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_ro | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.02]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ro_2019m"],OPERATION |
| | | | ACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|---------------------------------------------------|
| 9646 | Alicante_Height_To_EVRF2019_Height | VERTTRAN["Alicante_Height_To_EVRF2019_ | COORDINATEOPERATION["Alicante_Height_To_EV |
| | _1 | Height_1",GEOGCS["GCS_ETRS_1989",DATU | RF2019_Height_1",SOURCECRS[VERTCRS["Alicante |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | ",VDATUM["Alicante"],CS[vertical,1],AXIS["Gravity |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | -related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["Alicante",VDATUM["Alicante"],PA | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | Direction",1.0],UNIT["Meter",1.0]],VERTCS["E | Gravity-related height |
| | | VRF_2019",VDATUM["European_Vertical_Ref | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | erence_Frame_2019"],PARAMETER["Vertical | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | T["Meter",1.0]],VTMETHOD["Vertical_Offset_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | with_Grid"],PARAMETER["Dataset_es_2019z" | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ,0.0],OPERATIONACCURACY[0.082]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["es_2019z"],OPERATION |
| | | | ACCURACY[0.082]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|----------------------------------------------|-------------------------------------------------|
| 9647 | Alicante_Height_To_EVRF2019_Mean- | VERTTRAN["Alicante_Height_To_EVRF2019_ | COORDINATEOPERATION["Alicante_Height_To_EV |
| | Tide_Height_1 | Mean- | RF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Alicante",V |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | DATUM["Alicante"],CS[vertical,1],AXIS["Gravity- |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Alicante",VDATUM["Alicante"] | VERTCRS["EVRF_2019_mean- |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | tide",VDATUM["European_Vertical_Reference_Fra |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_es | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.078]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["es_2019m"],OPERATION |
| | | | ACCURACY[0.078]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9648 | RH2000_Height_To_EVRF2019_Height | VERTTRAN["RH2000_Height_To_EVRF2019_H | COORDINATEOPERATION["RH2000_Height_To_EV |
| | _1 | eight_1",GEOGCS["GCS_ETRS_1989",DATUM[| RF2019_Height_1",SOURCECRS[VERTCRS["RH2000 |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | ",DYNAMIC[FRAMEEPOCH[2000.0],MODEL["Levelli |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | ng- |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | based"]],VDATUM["Rikets_Hojdsystem_2000"],CS[|
| | | VERTCS["RH2000",VDATUM["Rikets_Hojdsyst | vertical,1],AXIS["Gravity-related height |
| | | em_2000"],PARAMETER["Vertical_Shift",0.0], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | .0]],VERTCS["EVRF_2019",VDATUM["Europea | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | n_Vertical_Reference_Frame_2019"],PARAM | Gravity-related height |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Offset_with_Grid"],PARAMETER["Dat | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | aset_se_2019z",0.0],OPERATIONACCURACY[0 | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | .006]] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["se_2019z"],OPERATION |
| | | | ACCURACY[0.006]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|-------------------------------------------------|
| 9649 | RH2000_Height_To_EVRF2019_Mean- | VERTTRAN["RH2000_Height_To_EVRF2019_ | COORDINATEOPERATION["RH2000_Height_To_EV |
| | Tide_Height_1 | Mean- | RF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["RH2000",D |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | YNAMIC[FRAMEEPOCH[2000.0],MODEL["Levelling- |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | based"]],VDATUM["Rikets_Hojdsystem_2000"],CS[|
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | vertical,1],AXIS["Gravity-related height |
| | | 433]],VERTCS["RH2000",VDATUM["Rikets_Ho | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | jdsystem_2000"],PARAMETER["Vertical_Shift | VERTCRS["EVRF_2019_mean- |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | tide",VDATUM["European_Vertical_Reference_Fra |
| | | ter",1.0]],VERTCS["EVRF_2019_mean- | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | tide",VDATUM["European_Vertical_Referenc | y-related height |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | Offset_with_Grid"],PARAMETER["Dataset_se | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | _2019m",0.0],OPERATIONACCURACY[0.032]] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["se_2019m"],OPERATION |
| | | | ACCURACY[0.032]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9652 | Baltic_1986_Height_To_EVRF2019_He | VERTTRAN["Baltic_1986_Height_To_EVRF201 | COORDINATEOPERATION["Baltic_1986_Height_To |
| | ight_1 | 9_Height_1",GEOGCS["GCS_ETRS_1989",DAT | _EVRF2019_Height_1",SOURCECRS[VERTCRS["Balt |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | ic_1986_height",VDATUM["Baltic_1986"],CS[vertic |
| | | 378137.0,298.257222101]],PRIMEM["Green | al,1],AXIS["Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Baltic_1986_height",VDATUM[" | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | Baltic_1986"],PARAMETER["Vertical_Shift",0. | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | Gravity-related height |
| | | ",1.0]],VERTCS["EVRF_2019",VDATUM["Euro | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | pean_Vertical_Reference_Frame_2019"],PAR | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | irection",1.0],UNIT["Meter",1.0]],VTMETHOD | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ["Vertical_Offset_with_Grid"],PARAMETER[" | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Dataset_pl86_2019z",0.0],OPERATIONACCUR | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ACY[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["pl86_2019z"],OPERATIO |
| | | | NACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9653 | Baltic_1986_Height_To_EVRF2019_M | VERTTRAN["Baltic_1986_Height_To_EVRF201 | COORDINATEOPERATION["Baltic_1986_Height_To |
| | ean-Tide_Height_1 | 9_Mean- | _EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Baltic_198 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | 6_height",VDATUM["Baltic_1986"],CS[vertical,1],A |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | XIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Baltic_1986_height",VDATUM | VERTCRS["EVRF_2019_mean- |
| | | ["Baltic_1986"],PARAMETER["Vertical_Shift", | tide",VDATUM["European_Vertical_Reference_Fra |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | er",1.0]],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_pl | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 86_2019m",0.0],OPERATIONACCURACY[0.02] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | |] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["pl86_2019m"],OPERATI |
| | | | ONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|---------------------------------------------|--------------------------------------------------|
| 9654 | EVRF2007- | VERTTRAN["EVRF2007- | COORDINATEOPERATION["EVRF2007- |
| | PL_Height_To_EVRF2019_Height_1 | PL_Height_To_EVRF2019_Height_1",GEOGCS | PL_Height_To_EVRF2019_Height_1",SOURCECRS[|
| | | ["GCS_ETRS_1989",DATUM["D_ETRS_1989",S | VERTCRS["EVRF_2007_PL_height",VDATUM["Euro |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | pean_Vertical_Reference_Frame_2007_Poland"],C |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | S[vertical,1],AXIS["Gravity-related height |
| | | e",0.0174532925199433]],VERTCS["EVRF_20 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 07_PL_height",VDATUM["European_Vertical | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | _Reference_Frame_2007_Poland"],PARAMET | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | Gravity-related height |
| | | on",1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 019",VDATUM["European_Vertical_Referenc | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | e_Frame_2019"],PARAMETER["Vertical_Shift | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ter",1.0]],VTMETHOD["Vertical_Offset_with_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Grid"],PARAMETER["Dataset_pl07_2019z",0. | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0],OPERATIONACCURACY[0.006]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["pl07_2019z"],OPERATIO |
| | | | NACCURACY[0.006]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------|----------------------------------------------|-------------------------------------------------|
| 9655 | EVRF2007- | VERTTRAN["EVRF2007- | COORDINATEOPERATION["EVRF2007- |
| | PL_Height_To_EVRF2019_Mean- | PL_Height_To_EVRF2019_Mean- | PL_Height_To_EVRF2019_Mean- |
| | Tide_Height_1 | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["EVRF_2007 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | _PL_height",VDATUM["European_Vertical_Refere |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | nce_Frame_2007_Poland"],CS[vertical,1],AXIS["Gr |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | avity-related height |
| | | 433]],VERTCS["EVRF_2007_PL_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | UM["European_Vertical_Reference_Frame_2 | VERTCRS["EVRF_2019_mean- |
| | | 007_Poland"],PARAMETER["Vertical_Shift",0. | tide",VDATUM["European_Vertical_Reference_Fra |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ",1.0]],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_pl | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 07_2019m",0.0],OPERATIONACCURACY[0.01 | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 2]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["pl07_2019m"],OPERATI |
| | | | ONACCURACY[0.012]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|-----------------------------------------------|--------------------------------------------------|
| 9662 | Baltic_1986_Height_To_EVRF2007- | VERTTRAN["Baltic_1986_Height_To_EVRF200 | COORDINATEOPERATION["Baltic_1986_Height_To |
| | PL_Height_1 | 7-PL_Height_1",GEOGCS["ETRF2000- | _EVRF2007- |
| | | PL",DATUM["ETRF2000_Poland",SPHEROID[" | PL_Height_1",SOURCECRS[VERTCRS["Baltic_1986_ |
| | | GRS_1980",6378137.0,298.257222101]],PRI | height",VDATUM["Baltic_1986"],CS[vertical,1],AXI |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | S["Gravity-related height |
| | | 4532925199433]],VERTCS["Baltic_1986_heig | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ht",VDATUM["Baltic_1986"],PARAMETER["Ve | VERTCRS["EVRF_2007_PL_height",VDATUM["Euro |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | pean_Vertical_Reference_Frame_2007_Poland"],C |
| | | ,UNIT["Meter",1.0]],VERTCS["EVRF_2007_PL_ | S[vertical,1],AXIS["Gravity-related height |
| | | height",VDATUM["European_Vertical_Refere | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | nce_Frame_2007_Poland"],PARAMETER["Ver | ONCRS[GEOGCRS["ETRF2000- |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | PL",DATUM["ETRF2000_Poland",ELLIPSOID["GRS_ |
| | | UNIT["Meter",1.0]],VTMETHOD["Vertical_Off | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | set_with_Grid"],PARAMETER["Dataset_gugik- | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | evrf2007",0.0],OPERATIONACCURACY[0.04]] | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["gugik- |
| | | | evrf2007"],OPERATIONACCURACY[0.04]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9664 | EH2000_Height_To_EVRF2019_Height | VERTTRAN["EH2000_Height_To_EVRF2019_H | COORDINATEOPERATION["EH2000_Height_To_EV |
| | _1 | eight_1",GEOGCS["GCS_ETRS_1989",DATUM[| RF2019_Height_1",SOURCECRS[VERTCRS["EH2000 |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | _height",VDATUM["Estonian_Height_System_200 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 0"],CS[vertical,1],AXIS["Gravity-related height |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCS["EH2000_height",VDATUM["Estonian | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | _Height_System_2000"],PARAMETER["Vertic | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | Gravity-related height |
| | | NIT["Meter",1.0]],VERTCS["EVRF_2019",VDA | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | TUM["European_Vertical_Reference_Frame_ | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 2019"],PARAMETER["Vertical_Shift",0.0],PAR | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | VTMETHOD["Vertical_Offset_with_Grid"],PA | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | RAMETER["Dataset_ee_2019z",0.0],OPERATI | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ONACCURACY[0.002]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ee_2019z"],OPERATION |
| | | | ACCURACY[0.002]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|-------------------------------------------------|
| 9665 | EH2000_Height_To_EVRF2019_Mean- | VERTTRAN["EH2000_Height_To_EVRF2019_ | COORDINATEOPERATION["EH2000_Height_To_EV |
| | Tide_Height_1 | Mean- | RF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["EH2000_h |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | eight",VDATUM["Estonian_Height_System_2000"] |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | ,CS[vertical,1],AXIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["EH2000_height",VDATUM["Es | VERTCRS["EVRF_2019_mean- |
| | | tonian_Height_System_2000"],PARAMETER[" | tide",VDATUM["European_Vertical_Reference_Fra |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | .0],UNIT["Meter",1.0]],VERTCS["EVRF_2019_ | y-related height |
| | | mean- | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | tide",VDATUM["European_Vertical_Referenc | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Offset_with_Grid"],PARAMETER["Dataset_ee | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | _2019m",0.0],OPERATIONACCURACY[0.004]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ee_2019m"],OPERATIO |
| | | | NACCURACY[0.004]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9667 | LAS07_Height_To_EVRF2019_Height_ | VERTTRAN["LAS07_Height_To_EVRF2019_Hei | COORDINATEOPERATION["LAS07_Height_To_EVR |
| | 1 | ght_1",GEOGCS["GCS_ETRS_1989",DATUM[" | F2019_Height_1",SOURCECRS[VERTCRS["LAS07_h |
| | | D_ETRS_1989",SPHEROID["GRS_1980",63781 | eight",VDATUM["Lithuanian_Height_System_2007 |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | "],CS[vertical,1],AXIS["Gravity-related height |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ERTCS["LAS07_height",VDATUM["Lithuanian_ | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | Height_System_2007"],PARAMETER["Vertical | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | Gravity-related height |
| | | T["Meter",1.0]],VERTCS["EVRF_2019",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | M["European_Vertical_Reference_Frame_20 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | 19"],PARAMETER["Vertical_Shift",0.0],PARA | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TMETHOD["Vertical_Offset_with_Grid"],PAR | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | AMETER["Dataset_lt_2019z",0.0],OPERATION | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ACCURACY[0.01]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["lt_2019z"],OPERATIONA |
| | | | CCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 9668 | LAS07_Height_To_EVRF2019_Mean- | VERTTRAN["LAS07_Height_To_EVRF2019_Me | COORDINATEOPERATION["LAS07_Height_To_EVR |
| | Tide_Height_2 | an- | F2019_Mean- |
| | | Tide_Height_2",GEOGCS["GCS_ETRS_1989",D | Tide_Height_2",SOURCECRS[VERTCRS["LAS07_hei |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ght",VDATUM["Lithuanian_Height_System_2007"] |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | ,CS[vertical,1],AXIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["LAS07_height",VDATUM["Lith | VERTCRS["EVRF_2019_mean- |
| | | uanian_Height_System_2007"],PARAMETER[" | tide",VDATUM["European_Vertical_Reference_Fra |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | .0],UNIT["Meter",1.0]],VERTCS["EVRF_2019_ | y-related height |
| | | mean- | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | tide",VDATUM["European_Vertical_Referenc | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Offset_with_Grid"],PARAMETER["Dataset_lt_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 2019m",0.0],OPERATIONACCURACY[0.014]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["lt_2019m"],OPERATION |
| | | | ACCURACY[0.014]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 9670 | BGS2005_Height_To_EVRF2019_Heigh | VERTTRAN["BGS2005_Height_To_EVRF2019_ | COORDINATEOPERATION["BGS2005_Height_To_E |
| | t_1 | Height_1",GEOGCS["GCS_ETRS_1989",DATU | VRF2019_Height_1",SOURCECRS[VERTCRS["BGS20 |
| | | M["D_ETRS_1989",SPHEROID["GRS_1980",63 | 05_height",VDATUM["Bulgarian_Height_System_2 |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 005"],CS[vertical,1],AXIS["Gravity-related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["BGS2005_height",VDATUM["Bulg | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | arian_Height_System_2005"],PARAMETER["V | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | Gravity-related height |
| | | 0],UNIT["Meter",1.0]],VERTCS["EVRF_2019", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VDATUM["European_Vertical_Reference_Fra | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | me_2019"],PARAMETER["Vertical_Shift",0.0], | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | .0]],VTMETHOD["Vertical_Offset_with_Grid"] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ,PARAMETER["Dataset_bgneu_2019z",0.0],O | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | PERATIONACCURACY[0.036]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["bgneu_2019z"],OPERATI |
| | | | ONACCURACY[0.036]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 9671 | BGS2005_Height_To_EVRF2019_Mea | VERTTRAN["BGS2005_Height_To_EVRF2019_ | COORDINATEOPERATION["BGS2005_Height_To_E |
| | n-Tide_Height_1 | Mean- | VRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["BGS2005_ |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | height",VDATUM["Bulgarian_Height_System_2005 |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | "],CS[vertical,1],AXIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["BGS2005_height",VDATUM["B | VERTCRS["EVRF_2019_mean- |
| | | ulgarian_Height_System_2005"],PARAMETER | tide",VDATUM["European_Vertical_Reference_Fra |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ,1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2019 | y-related height |
| | | _mean- | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | tide",VDATUM["European_Vertical_Referenc | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Offset_with_Grid"],PARAMETER["Dataset_bg | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | neu_2019m",0.0],OPERATIONACCURACY[0.0 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | 32]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["bgneu_2019m"],OPERA |
| | | | TIONACCURACY[0.032]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------|-----------------------------------------------|----------------------------------------------------|
| 9692 | GDA2020_To_AVWS_Height_2 | VERTTRAN["GDA2020_To_AVWS_Height_2", | COORDINATEOPERATION["GDA2020_To_AVWS_H |
| | | GEOGCS["GDA2020",DATUM["GDA2020",SPH | eight_2",SOURCECRS[VERTCRS["GDA2020",DYNA |
| | | EROID["GRS_1980",6378137.0,298.25722210 | MIC[FRAMEEPOCH[2020.0],MODEL["GDA2020- |
| | | 1]],PRIMEM["Greenwich",0.0],UNIT["Degree" | PMM"]],DATUM["GDA2020",ELLIPSOID["GRS_198 |
| | | ,0.0174532925199433]],VERTCS["GDA2020", | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | DATUM["GDA2020",SPHEROID["GRS_1980",6 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 378137.0,298.257222101]],PARAMETER["Ver | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | ERTCRS["AVWS_height",VDATUM["Australian_Ver |
| | | UNIT["Meter",1.0]],VERTCS["AVWS_height",V | tical_Working_Surface"],CS[vertical,1],AXIS["Gravi |
| | | DATUM["Australian_Vertical_Working_Surfac | ty-related height |
| | | e"],PARAMETER["Vertical_Shift",0.0],PARAM | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VT | ONCRS[GEOGCRS["GDA2020",DYNAMIC[FRAMEEP |
| | | METHOD["GEOID"],PARAMETER["Interpolatio | OCH[2020.0],MODEL["GDA2020- |
| | | n_Type",40.0],PARAMETER["Dataset_AGQG_ | PMM"]],DATUM["GDA2020",ELLIPSOID["GRS_198 |
| | | 20201120",0.0],OPERATIONACCURACY[0.1]] | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | | r",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["D |
| | | | egree",0.0174532925199433]],CS[ellipsoidal,2],AX |
| | | | IS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["AGQG_20201120"],OPERATI |
| | | | ONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|----------------------------------------------|----------------------------------------------------|
| 9710 | EVRF2019_Height_To_EVRF2019_Mea | VERTTRAN["EVRF2019_Height_To_EVRF2019 | COORDINATEOPERATION["EVRF2019_Height_To_ |
| | n-Tide_Height | _Mean- | EVRF2019_Mean- |
| | | Tide_Height",GEOGCS["GCS_ETRS_1989",DAT | Tide_Height",SOURCECRS[VERTCRS["EVRF_2019", |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | VDATUM["European_Vertical_Reference_Frame_ |
| | | 378137.0,298.257222101]],PRIMEM["Green | 2019"],CS[vertical,1],AXIS["Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["EVRF_2019",VDATUM["Europe | VERTCRS["EVRF_2019_mean- |
| | | an_Vertical_Reference_Frame_2019"],PARA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["EVR | y-related height |
| | | F_2019_mean- | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | tide",VDATUM["European_Vertical_Referenc | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Zero_Tid | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | e_to_Mean_Tide_EVRF2019"],OPERATIONAC | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | CURACY[0.0]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Zero_Tide_to_Mean |
| | | | _Tide_EVRF2019"],OPERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------|----------------------------------------------|-------------------------------------------------------|
| 9717 | ETRF2000- | VERTTRAN["ETRF2000- | COORDINATEOPERATION["ETRF2000- |
| | PL_To_Baltic_1986_Height_1 | PL_To_Baltic_1986_Height_1",GEOGCS["ETRF | PL_To_Baltic_1986_Height_1",SOURCECRS[VERTC |
| | | 2000- | RS["ETRF2000- |
| | | PL",DATUM["ETRF2000_Poland",SPHEROID[" | PL",DATUM["ETRF2000_Poland",ELLIPSOID["GRS_ |
| | | GRS_1980",6378137.0,298.257222101]],PRI | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 4532925199433]],VERTCS["ETRF2000- | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | PL",DATUM["ETRF2000_Poland",SPHEROID[" | ERTCRS["Baltic_1986_height",VDATUM["Baltic_19 |
| | | GRS_1980",6378137.0,298.257222101]],PAR | 86"],CS[vertical,1],AXIS["Gravity-related height |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["Ba | ONCRS[GEOGCRS["ETRF2000- |
| | | ltic_1986_height",VDATUM["Baltic_1986"],P | PL",DATUM["ETRF2000_Poland",ELLIPSOID["GRS_ |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | "Direction",1.0],UNIT["Meter",1.0]],VTMETH | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | OD["GEOID"],PARAMETER["Interpolation_Ty | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | pe",40.0],PARAMETER["Dataset_gugik- | 2],AXIS["Latitude |
| | | geoid2011-PL-KRON86- | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | NH",0.0],OPERATIONACCURACY[0.03]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["gugik-geoid2011-PL- |
| | | | KRON86-NH"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9719 | ETRF2000-PL_To_EVRF2007-PL_Height_1 | VERTTRAN["ETRF2000-PL_To_EVRF2007-PL_Height_1",GEOGCS["ETRF2000-PL",DATUM["ETRF2000_Poland",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRF2000-PL",DATUM["ETRF2000_Poland",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2007_PL_height",VDATUM["European_Vertical_Reference_Frame_2007_Poland"],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Interpolation_Type",40.0],PARAMETER["Dataset_gugik-geoid2011-PL-EVRF2007-NH",0.0],OPERATIONACCURACY[0.03]] | COORDINATEOPERATION["ETRF2000-PL_To_EVRF2007-PL_Height_1",SOURCECRS[VERTCRS["ETRF2000-PL",DATUM["ETRF2000_Poland",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2007_PL_height",VDATUM["European_Vertical_Reference_Frame_2007_Poland"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["ETRF2000-PL",DATUM["ETRF2000_Poland",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude(lat)",north,ORDER[1]],AXIS["Longitude(lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETER["Interpolation_Type",40.0,SCALEUNIT["Unity",1.0]],PARAMETERFILE["gugik-geoid2011-PL- |
| 9726 | Genoa_1942_Height_to_Catania_196 5_height_1 | VERTTRAN["Genoa_1942_Height_to_Catania _1965_height_1",VERTCS["Genoa_height",VD ATUM["Genoa"],PARAMETER["Vertical_Shift" ,0.0],PARAMETER["Direction",1.0],UNIT["Met er",1.0]],VERTCS["Catania_1965_height",VDA TUM["Catania_1965"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset",0.141],OPERAT IONACCURACY[0.01]] | EVRF2007-NH"],OPERATIONACCURACY[0.03]] COORDINATEOPERATION["Genoa_1942_Height_t o_Catania_1965_height_1",SOURCECRS[VERTCRS["Genoa_height",VDATUM["Genoa"],CS[vertical,1], AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Catania_1965_height",VDATUM["Catan ia_1965"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.14 1,LENGTHUNIT["Meter",1.0]],OPERATIONACCURA CY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9744 | Baltic_1957_Height_To_EVRF2019_M | VERTTRAN["Baltic_1957_Height_To_EVRF201 | COORDINATEOPERATION["Baltic_1957_Height_To |
| | ean-Tide_Height_1 | 9_Mean- | _EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Baltic_195 |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | 7_height",VDATUM["Baltic_1957"],CS[vertical,1],A |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | XIS["Gravity-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Baltic_1957_height",VDATUM | VERTCRS["EVRF_2019_mean- |
| | | ["Baltic_1957"],PARAMETER["Vertical_Shift", | tide",VDATUM["European_Vertical_Reference_Fra |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | er",1.0]],VERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]],PRIMEM[" |
| | | Offset_and_Slope"],PARAMETER["Vertical_Of | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | fset",0.13],PARAMETER["Longitude_Of_Evalu | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ation",15.25],PARAMETER["Latitude_Of_Eval | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | uation",49.916666666666666],PARAMETER["I | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | nclination_North",0.036],PARAMETER["Inclin | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | ation_East",0.006],OPERATIONACCURACY[0.0 | _Slope"],PARAMETER["Vertical_Offset",0.13,LENG |
| | | [1]] | THUNIT["Meter",1.0]],PARAMETER["Longitude_Of |
| | | | _Evaluation",15.25,ANGLEUNIT["Degree",0.01745 |
| | | | 32925199433]],PARAMETER["Latitude_Of_Evaluat |
| | | | ion",49.9166666666666666,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],PARAMETER["Inclination_N |
| | | | orth",0.036,ANGLEUNIT["Arcsecond",0.000004848 |
| | | | 13681109536]],PARAMETER["Inclination_East",0.0 |
| | | | 06,ANGLEUNIT["Arcsecond",0.0000048481368110 |
| | | | 9536]],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------------|---------------------------------------------|--------------------------------------------------|
| 9745 | Baltic_1957_Height_To_EVRF2019_He | VERTTRAN["Baltic_1957_Height_To_EVRF201 | COORDINATEOPERATION["Baltic_1957_Height_To |
| | ight_1 | 9_Height_1",GEOGCS["GCS_ETRS_1989",DAT | _EVRF2019_Height_1",SOURCECRS[VERTCRS["Balt |
| | | UM["D_ETRS_1989",SPHEROID["GRS_1980",6 | ic_1957_height",VDATUM["Baltic_1957"],CS[vertic |
| | | 378137.0,298.257222101]],PRIMEM["Green | al,1],AXIS["Gravity-related height |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 33]],VERTCS["Baltic_1957_height",VDATUM[" | VERTCRS["EVRF_2019",VDATUM["European_Verti |
| | | Baltic_1957"],PARAMETER["Vertical_Shift",0. | cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | Gravity-related height |
| | | ",1.0]],VERTCS["EVRF_2019",VDATUM["Euro | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | pean_Vertical_Reference_Frame_2019"],PAR | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | irection",1.0],UNIT["Meter",1.0]],VTMETHOD | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ["Vertical_Offset_and_Slope"],PARAMETER[" | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | Vertical_Offset",0.142],PARAMETER["Longitu | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | de_Of_Evaluation",15.25],PARAMETER["Latit | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ude_Of_Evaluation",49.91666666666666],PA | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | RAMETER["Inclination_North",0.026],PARAM | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | ETER["Inclination_East",0.006],OPERATIONAC | _Slope"],PARAMETER["Vertical_Offset",0.142,LEN |
| | | CURACY[0.01]] | GTHUNIT["Meter",1.0]],PARAMETER["Longitude_ |
| | | | Of_Evaluation",15.25,ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]],PARAMETER["Latitude_Of_Eval |
| | | | uation",49.9166666666666666,ANGLEUNIT["Degree |
| | | | ",0.0174532925199433]],PARAMETER["Inclination |
| | | | _North",0.026,ANGLEUNIT["Arcsecond",0.000004 |
| | | | 84813681109536]],PARAMETER["Inclination_East" |
| | | | ,0.006,ANGLEUNIT["Arcsecond",0.0000048481368 |
| | | | 1109536]],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------|----------------------------------------------|--------------------------------------------------|
| 9876 | RGF93_v2b_To_NGF- | VERTTRAN["RGF93_v2b_To_NGF- | COORDINATEOPERATION["RGF93_v2b_To_NGF- |
| | IGN69_Height_RAF20_5 | IGN69_Height_RAF20_5",GEOGCS["RGF93_v | IGN69_Height_RAF20_5",SOURCECRS[VERTCRS["R |
| | | 2b",DATUM["Reseau_Geodesique_Francais_ | GF93_v2b",DATUM["Reseau_Geodesique_Francai |
| | | 1993_v2b",SPHEROID["GRS_1980",6378137.0 | s_1993_v2b",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | 98.257222101,LENGTHUNIT["Meter",1.0]]],CS[vert |
| | | UNIT["Degree",0.0174532925199433]],VERT | ical,1],AXIS["Ellipsoidal height |
| | | CS["RGF93_v2b",DATUM["Reseau_Geodesiqu | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | e_Francais_1993_v2b",SPHEROID["GRS_1980 | ERTCRS["NGF_IGN69",VDATUM["Nivellement_Ge |
| | | ",6378137.0,298.257222101]],PARAMETER[" | neral_de_la_France_IGN69"],CS[vertical,1],AXIS[" |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | Gravity-related height |
| | | .0],UNIT["Meter",1.0]],VERTCS["NGF_IGN69", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VDATUM["Nivellement_General_de_la_Franc | ONCRS[GEOGCRS["RGF93_v2b",DATUM["Reseau_ |
| | | e_IGN69"],PARAMETER["Vertical_Shift",0.0], | Geodesique_Francais_1993_v2b",ELLIPSOID["GRS |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | .0]],VTMETHOD["GEOID"],PARAMETER["Data | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | set_RAF20",0.0],OPERATIONACCURACY[0.01] | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | |] | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RAF20"],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9900 | Genoa_1942_Height_To_EVRF2019_H eight_1 | VERTTRAN["Genoa_1942_Height_To_EVRF20 19_Height_1",GEOGCS["GCS_ETRS_1989",DA TUM["D_ETRS_1989",SPHEROID["GRS_1980", 6378137.0,298.257222101]],PRIMEM["Green wich",0.0],UNIT["Degree",0.01745329251994 33]],VERTCS["Genoa_height",VDATUM["Gen oa"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",1.0],UNIT["Meter",1.0]],V ERTCS["EVRF_2019",VDATUM["European_Ve rtical_Reference_Frame_2019"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction", 1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical _Offset_with_Grid"],PARAMETER["Dataset_it _2019z",0.0],OPERATIONACCURACY[0.124]] | COORDINATEOPERATION["Genoa_1942_Height_T o_EVRF2019_Height_1",SOURCECRS[VERTCRS["Ge noa_height",VDATUM["Genoa"],CS[vertical,1],AXI S["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2019",VDATUM["European_Verti cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["Vertical_Offset_with _Grid"],PARAMETERFILE["it_2019z"],OPERATIONA CCURACY[0.124]] |
| 9902 | Baltic_1977_Height_To_EVRF2019_He ight_1 | VERTTRAN["Baltic_1977_Height_To_EVRF201 9_Height_1",GEOGCS["GCS_ETRS_1989",DAT UM["D_ETRS_1989",SPHEROID["GRS_1980",6 378137.0,298.257222101]],PRIMEM["Green wich",0.0],UNIT["Degree",0.01745329251994 33]],VERTCS["Baltic",VDATUM["Baltic_Sea"],P ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS[" EVRF_2019",VDATUM["European_Vertical_R eference_Frame_2019"],PARAMETER["Vertic al_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VTMETHOD["Vertical_Offs et_with_Grid"],PARAMETER["Dataset_ua_20 19z",0.0],OPERATIONACCURACY[0.068]] | COORDINATEOPERATION["Baltic_1977_Height_To _EVRF2019_Height_1",SOURCECRS[VERTCRS["Balt ic",VDATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gra vity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2019",VDATUM["European_Verti cal_Reference_Frame_2019"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["Vertical_Offset_with _Grid"],PARAMETERFILE["ua_2019z"],OPERATION ACCURACY[0.068]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|----------------------------------------------|--------------------------------------------------|
| 9903 | Baltic_1977_Height_To_EVRF2019_M | VERTTRAN["Baltic_1977_Height_To_EVRF201 | COORDINATEOPERATION["Baltic_1977_Height_To |
| | ean-Tide_Height_1 | 9_Mean- | _EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Baltic",VD |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ATUM["Baltic_Sea"],CS[vertical,1],AXIS["Gravity- |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Baltic",VDATUM["Baltic_Sea"], | VERTCRS["EVRF_2019_mean- |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | tide",VDATUM["European_Vertical_Reference_Fra |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_ua | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | _2019m",0.0],OPERATIONACCURACY[0.064]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["ua_2019m"],OPERATIO |
| | | | NACCURACY[0.064]] |

| WKID | Name | WKT1 | WKT2 |
|------|----------------------------------|---------------------------------------------|-------------------------------------------------|
| 9908 | ETRS89_Height_To_Oostende_Height | VERTTRAN["ETRS89_Height_To_Oostende_H | COORDINATEOPERATION["ETRS89_Height_To_Oo |
| | _hBG18 | eight_hBG18",GEOGCS["GCS_ETRS_1989",DA | stende_Height_hBG18",SOURCECRS[VERTCRS["ET |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | RS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GR |
| | | 6378137.0,298.257222101]],PRIMEM["Green | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | wich",0.0],UNIT["Degree",0.01745329251994 | "Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 33]],VERTCS["ETRS_1989",DATUM["D_ETRS_ | height |
| | | 1989",SPHEROID["GRS_1980",6378137.0,298 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | ERTCRS["Oostende",VDATUM["Oostende"],CS[vert |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | ical,1],AXIS["Gravity-related height |
| | | ",1.0]],VERTCS["Oostende",VDATUM["Oosten | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | de"],PARAMETER["Vertical_Shift",0.0],PARA | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | TMETHOD["GEOID"],PARAMETER["Dataset_h | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | BG18",0.0],OPERATIONACCURACY[0.02]] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["hBG18"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|---------------------------------------------|---------------------------------------------------|
| 9914 | ETRS89_To_British_Isles_Height_OSG | VERTTRAN["ETRS89_To_British_Isles_Height_ | COORDINATEOPERATION["ETRS89_To_British_Isle |
| | M15_GB | OSGM15_GB",GEOGCS["GCS_ETRS_1989",DA | s_Height_OSGM15_GB",SOURCECRS[VERTCRS["ET |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | RS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GR |
| | | 6378137.0,298.257222101]],PRIMEM["Green | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | wich",0.0],UNIT["Degree",0.01745329251994 | "Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 33]],VERTCS["ETRS_1989",DATUM["D_ETRS_ | height |
| | | 1989",SPHEROID["GRS_1980",6378137.0,298 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | ERTCRS["BI_height",VDATUM["British_Isles_heigh |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | t_ensemble"],CS[vertical,1],AXIS["Gravity-related |
| | | ",1.0]],VERTCS["BI_height",VDATUM["British_ | height |
| | | Isles_height_ensemble"],PARAMETER["Vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | AMETER["Interpolation_Type",20.0],PARAME | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TER["Dataset_OSGM15_Great_Britain",0.0],O | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | PERATIONACCURACY[0.02]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|----------------------------------------------|-----------------------------------------------------|
| 9916 | ETRS89_To_British_Isles_Height_OSG | VERTTRAN["ETRS89_To_British_Isles_Height_ | COORDINATEOPERATION["ETRS89_To_British_Isle |
| | M15_Belfast | OSGM15_Belfast",GEOGCS["GCS_ETRS_1989 | s_Height_OSGM15_Belfast",SOURCECRS[VERTCRS |
| | | ",DATUM["D_ETRS_1989",SPHEROID["GRS_1 | ["ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID[|
| | | 980",6378137.0,298.257222101]],PRIMEM[" | "GRS_1980",6378137.0,298.257222101,LENGTHU |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | NIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 5199433]],VERTCS["ETRS_1989",DATUM["D_ | height |
| | | ETRS_1989",SPHEROID["GRS_1980",6378137. | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 0,298.257222101]],PARAMETER["Vertical_Shi | ERTCRS["BI_height",VDATUM["British_Isles_heigh |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | t_ensemble"],CS[vertical,1],AXIS["Gravity-related |
| | | Meter",1.0]],VERTCS["BI_height",VDATUM["B | height |
| | | ritish_Isles_height_ensemble"],PARAMETER[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | PARAMETER["Interpolation_Type",20.0],PAR | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | AMETER["Dataset_OSGM15_Belfast",0.0],OP | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ERATIONACCURACY[0.014]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Belfast"],OPERATI |
| | | | ONACCURACY[0.014]] |

| WKID | Name | WKT1 | WKT2 |
|------|------------------------------------|-----------------------------------------------|----------------------------------------------------|
| 9918 | ETRS89_To_British_Isles_Height_OSG | VERTTRAN["ETRS89_To_British_Isles_Height_ | COORDINATEOPERATION["ETRS89_To_British_Isle |
| | M15_Malin | OSGM15_Malin",GEOGCS["GCS_ETRS_1989", | s_Height_OSGM15_Malin",SOURCECRS[VERTCRS[" |
| | | DATUM["D_ETRS_1989",SPHEROID["GRS_19 | ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID[" |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | IT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 99433]],VERTCS["ETRS_1989",DATUM["D_ET | height |
| | | RS_1989",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["BI_height",VDATUM["British_Isles_heigh |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | t_ensemble"],CS[vertical,1],AXIS["Gravity-related |
| | | ter",1.0]],VERTCS["BI_height",VDATUM["Briti | height |
| | | sh_Isles_height_ensemble"],PARAMETER["Ve | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | RAMETER["Interpolation_Type",20.0],PARAM | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ETER["Dataset_OSGM15_Malin",0.0],OPERAT | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | IONACCURACY[0.023]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Malin"],OPERATIO |
| | | | NACCURACY[0.023]] |

| WKID | Name | WKT1 | WKT2 |
|------|--------------------------------|----------------------------------------------|--------------------------------------------------|
| 9921 | Genoa_1942_Height_To_EVRF2019_ | VERTTRAN["Genoa_1942_Height_To_EVRF20 | COORDINATEOPERATION["Genoa_1942_Height_T |
| | Mean-Tide_Height_1 | 19_Mean- | o_EVRF2019_Mean- |
| | | Tide_Height_1",GEOGCS["GCS_ETRS_1989",D | Tide_Height_1",SOURCECRS[VERTCRS["Genoa_hei |
| | | ATUM["D_ETRS_1989",SPHEROID["GRS_1980 | ght",VDATUM["Genoa"],CS[vertical,1],AXIS["Gravit |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | y-related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Genoa_height",VDATUM["Ge | VERTCRS["EVRF_2019_mean- |
| | | noa"],PARAMETER["Vertical_Shift",0.0],PARA | tide",VDATUM["European_Vertical_Reference_Fra |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | me_2019_mean_tide"],CS[vertical,1],AXIS["Gravit |
| | | ERTCS["EVRF_2019_mean- | y-related height |
| | | tide",VDATUM["European_Vertical_Referenc | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | e_Frame_2019_mean_tide"],PARAMETER["V | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["Vertical_ | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Offset_with_Grid"],PARAMETER["Dataset_it_ | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 2019m",0.0],OPERATIONACCURACY[0.108]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETERFILE["it_2019m"],OPERATION |
| | | | ACCURACY[0.108]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9925 | ETRS89_To_DHHN2016_Height_1 | VERTTRAN["ETRS89_To_DHHN2016_Height_ 1",GEOGCS["GCS_ETRS_1989",DATUM["D_ET RS_1989",SPHEROID["GRS_1980",6378137.0, 298.257222101]],PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433]],VERT CS["ETRS_1989",DATUM["D_ETRS_1989",SPH EROID["GRS_1980",6378137.0,298.25722210 1]],PARAMETER["Vertical_Shift",0.0],PARAME TER["Direction",1.0],UNIT["Meter",1.0]],VERT CS["DHHN2016_(height)",VDATUM["Deutsch es_Haupthoehennetz_2016"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], PARAMETER["Dataset_GCG2016",0.0],OPERA TIONACCURACY[0.1]] | COORDINATEOPERATION["ETRS89_To_DHHN2016 _Height_1",SOURCECRS[VERTCRS["ETRS_1989",D ATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",637 8137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["DHHN2016_(height)",VDATUM["Deutsch es_Haupthoehennetz_2016"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["GCG2016"],OPERATIONACCURACY[0.1]] |
| 9954 | ISN93_To_ISH2004_Height_1 | VERTTRAN["ISN93_To_ISH2004_Height_1",G EOGCS["GCS_ISN_1993",DATUM["D_Islands_ Network_1993",SPHEROID["GRS_1980",6378 137.0,298.257222101]],PRIMEM["Greenwich ",0.0],UNIT["Degree",0.0174532925199433]], VERTCS["ISN_1993",DATUM["D_Islands_Net work_1993",SPHEROID["GRS_1980",6378137 .0,298.257222101]],PARAMETER["Vertical_Sh ift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VERTCS["ISH2004_height",VDAT UM["Landshaedarkerfi_Islands_2004"],PARA METER["Vertical_Shift",0.0],PARAMETER["Dir ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" GEOID"],PARAMETER["Dataset_Icegeoid_ISN 93",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ISN93_To_ISH2004_Height_1",SOURCECRS[VERTCRS["ISN_1993",DATUM["D_Islands_Network_1993",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["ISH2004_height",VDATUM["Landshaedar kerfi_Islands_2004"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ISN_1993",DATUM["D_Islands_Network_1993",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETE RFILE["Icegeoid_ISN93"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------|---------------------------------------------|-------------------------------------------------------|
| 9956 | ISN2004_To_ISH2004_Height_1 | VERTTRAN["ISN2004_To_ISH2004_Height_1", | COORDINATEOPERATION["ISN2004_To_ISH2004_ |
| | | GEOGCS["GCS_ISN_2004",DATUM["D_Islands | Height_1",SOURCECRS[VERTCRS["ISN_2004",DAT |
| | | _Network_2004",SPHEROID["GRS_1980",637 | UM["D_Islands_Network_2004",ELLIPSOID["GRS_ |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["ISN_2004",DATUM["D_Islands_Net | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | work_2004",SPHEROID["GRS_1980",6378137 | ERTCRS["ISH2004_height",VDATUM["Landshaedar |
| | | .0,298.257222101]],PARAMETER["Vertical_Sh | kerfi_Islands_2004"],CS[vertical,1],AXIS["Gravity- |
| | | ift",0.0],PARAMETER["Direction",1.0],UNIT[" | related height |
| | | Meter",1.0]],VERTCS["ISH2004_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["Landshaedarkerfi_Islands_2004"],PARA | ONCRS[GEOGCRS["GCS_ISN_2004",DATUM["D_ISI |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ands_Network_2004",ELLIPSOID["GRS_1980",637 |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | GEOID"],PARAMETER["Dataset_Icegeoid_ISN |]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree" |
| | | 2004",0.0],OPERATIONACCURACY[0.05]] | ,0.0174532925199433]],CS[ellipsoidal,2],AXIS["Lati |
| | | | tude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["Icegeoid_ISN2004"],OPERATIONACCURACY |
| | | | [0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|-----------------------------|----------------------------------------------|----------------------------------------------------|
| 9958 | ISN2016_To_ISH2004_Height_1 | VERTTRAN["ISN2016_To_ISH2004_Height_1", | COORDINATEOPERATION["ISN2016_To_ISH2004_ |
| | | GEOGCS["ISN2016",DATUM["Islands_Net_20 | Height_1",SOURCECRS[VERTCRS["ISN2016",DATU |
| | | 16",SPHEROID["GRS_1980",6378137.0,298.2 | M["Islands_Net_2016",ELLIPSOID["GRS_1980",637 |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | "Degree",0.0174532925199433]],VERTCS["IS |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | N2016",DATUM["Islands_Net_2016",SPHERO | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | ERTCRS["ISH2004_height",VDATUM["Landshaedar |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| kerfi_Islands_2004"],CS[vertical,1],AXIS["Gravity- |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | related height |
| | | ISH2004_height",VDATUM["Landshaedarkerfi | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | _Islands_2004"],PARAMETER["Vertical_Shift" | ONCRS[GEOGCRS["ISN2016",DATUM["Islands_Net |
| | | ,0.0],PARAMETER["Direction",1.0],UNIT["Met | _2016",ELLIPSOID["GRS_1980",6378137.0,298.257 |
| | | er",1.0]],VTMETHOD["GEOID"],PARAMETER[" | 222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gre |
| | | Dataset_Icegeoid_ISN2016",0.0],OPERATION | enwich",0.0,ANGLEUNIT["Degree",0.01745329251 |
| | | ACCURACY[0.05]] | 99433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["Icegeoid_ISN2016"],OPERATIONACCURACY |
| | | | [0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9983 | NAD83(CSRS)v3_to_CGVD28_Height_ | VERTTRAN["NAD83(CSRS)v3_to_CGVD28_Hei | COORDINATEOPERATION["NAD83(CSRS)v3_to_CG |
| | 1 | ght_1",GEOGCS["NAD83(CSRS)v3",DATUM[" | VD28_Height_1",SOURCECRS[VERTCRS["NAD83(C |
| | | North_American_Datum_of_1983_(CSRS)_ve | SRS)v3",DATUM["North_American_Datum_of_198 |
| | | rsion_3",SPHEROID["GRS_1980",6378137.0,2 | 3_(CSRS)_version_3",ELLIPSOID["GRS_1980",6378 |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | NIT["Degree",0.0174532925199433]],VERTCS | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | ["NAD83(CSRS)v3",DATUM["North_American | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _Datum_of_1983_(CSRS)_version_3",SPHERO | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | CGVD_1928",VDATUM["Canadian_Geodetic_ | ONCRS[GEOGCRS["NAD83(CSRS)v3",DATUM["Nort |
| | | Vertical_Datum_of_1928"],PARAMETER["Ver | h_American_Datum_of_1983_(CSRS)_version_3", |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Interpolation_Type",30.0],PARAM | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ETER["Dataset_HT2_1997",0.0],OPERATIONA |],CS[ellipsoidal,2],AXIS["Latitude |
| | | CCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_1997"],OPERATIONACC |
| | | | URACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9984 | NAD83(CSRS)v2_to_CGVD28_Height_ | VERTTRAN["NAD83(CSRS)v2_to_CGVD28_Hei | COORDINATEOPERATION["NAD83(CSRS)v2_to_CG |
| | 1 | ght_1",GEOGCS["NAD83(CSRS)v2",DATUM[" | VD28_Height_1",SOURCECRS[VERTCRS["NAD83(C |
| | | North_American_Datum_of_1983_(CSRS)_ve | SRS)v2",DATUM["North_American_Datum_of_198 |
| | | rsion_2",SPHEROID["GRS_1980",6378137.0,2 | 3_(CSRS)_version_2",ELLIPSOID["GRS_1980",6378 |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | NIT["Degree",0.0174532925199433]],VERTCS | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | ["NAD83(CSRS)v2",DATUM["North_American | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _Datum_of_1983_(CSRS)_version_2",SPHERO | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | CGVD_1928",VDATUM["Canadian_Geodetic_ | ONCRS[GEOGCRS["NAD83(CSRS)v2",DATUM["Nort |
| | | Vertical_Datum_of_1928"],PARAMETER["Ver | h_American_Datum_of_1983_(CSRS)_version_2", |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Interpolation_Type",30.0],PARAM | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ETER["Dataset_HT2_1997",0.0],OPERATIONA |],CS[ellipsoidal,2],AXIS["Latitude |
| | | CCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_1997"],OPERATIONACC |
| | | | URACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9985 | NAD83(CSRS)v4_to_CGVD28_Height_ | VERTTRAN["NAD83(CSRS)v4_to_CGVD28_Hei | COORDINATEOPERATION["NAD83(CSRS)v4_to_CG |
| | 1 | ght_1",GEOGCS["NAD83(CSRS)v4",DATUM[" | VD28_Height_1",SOURCECRS[VERTCRS["NAD83(C |
| | | North_American_Datum_of_1983_(CSRS)_ve | SRS)v4",DATUM["North_American_Datum_of_198 |
| | | rsion_4",SPHEROID["GRS_1980",6378137.0,2 | 3_(CSRS)_version_4",ELLIPSOID["GRS_1980",6378 |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | NIT["Degree",0.0174532925199433]],VERTCS | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | ["NAD83(CSRS)v4",DATUM["North_American | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _Datum_of_1983_(CSRS)_version_4",SPHERO | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | CGVD_1928",VDATUM["Canadian_Geodetic_ | ONCRS[GEOGCRS["NAD83(CSRS)v4",DATUM["Nort |
| | | Vertical_Datum_of_1928"],PARAMETER["Ver | h_American_Datum_of_1983_(CSRS)_version_4", |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Interpolation_Type",30.0],PARAM | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ETER["Dataset_HT2_2002v70",0.0],OPERATIO |],CS[ellipsoidal,2],AXIS["Latitude |
| | | NACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_2002v70"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|--------------------------------------------|------------------------------------------------------|
| 9986 | NAD83(CSRS)v6_Height_To_CGVD28_ | VERTTRAN["NAD83(CSRS)v6_Height_To_CGV | COORDINATEOPERATION["NAD83(CSRS)v6_Height |
| | Height_HT2 | D28_Height_HT2",GEOGCS["NAD83(CSRS)v6" | _To_CGVD28_Height_HT2",SOURCECRS[VERTCRS[|
| | | ,DATUM["North_American_Datum_of_1983_ | "NAD83(CSRS)v6",DATUM["North_American_Datu |
| | | (CSRS)_version_6",SPHEROID["GRS_1980",63 | m_of_1983_(CSRS)_version_6",ELLIPSOID["GRS_1 |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |]],VERTCS["NAD83(CSRS)v6",DATUM["North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_Datum_of_1983_(CSRS)_version_6 | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | ["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0]],VERTCS["CGVD_1928",VDATUM["Canadia | ONCRS[GEOGCRS["NAD83(CSRS)v6",DATUM["Nort |
| | | n_Geodetic_Vertical_Datum_of_1928"],PARA | h_American_Datum_of_1983_(CSRS)_version_6", |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | GEOID"],PARAMETER["Interpolation_Type",3 | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | 0.0],PARAMETER["Dataset_HT2_2010v70",0. |],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0],OPERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_2010v70"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|------|---------------------------------|-----------------------------------------------|---------------------------------------------------|
| 9987 | NAD83(CSRS)v7_to_CGVD28_Height_ | VERTTRAN["NAD83(CSRS)v7_to_CGVD28_Hei | COORDINATEOPERATION["NAD83(CSRS)v7_to_CG |
| | 1 | ght_1",GEOGCS["NAD83(CSRS)v7",DATUM[" | VD28_Height_1",SOURCECRS[VERTCRS["NAD83(C |
| | | North_American_Datum_of_1983_(CSRS)_ve | SRS)v7",DATUM["North_American_Datum_of_198 |
| | | rsion_7",SPHEROID["GRS_1980",6378137.0,2 | 3_(CSRS)_version_7",ELLIPSOID["GRS_1980",6378 |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | NIT["Degree",0.0174532925199433]],VERTCS | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | ["NAD83(CSRS)v7",DATUM["North_American | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _Datum_of_1983_(CSRS)_version_7",SPHERO | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | CGVD_1928",VDATUM["Canadian_Geodetic_ | ONCRS[GEOGCRS["NAD83(CSRS)v7",DATUM["Nort |
| | | Vertical_Datum_of_1928"],PARAMETER["Ver | h_American_Datum_of_1983_(CSRS)_version_7", |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Interpolation_Type",30.0],PARAM | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ETER["Dataset_HT2_2010v70",0.0],OPERATIO |],CS[ellipsoidal,2],AXIS["Latitude |
| | | NACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_2010v70"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|-------|------------------------------|---------------------------------------------|----------------------------------------------------|
| 10084 | WGS_1984_To_EGM_1996_Geoid_1 | VERTTRAN["WGS_1984_To_EGM_1996_Geoi | COORDINATEOPERATION["WGS_1984_To_EGM_1 |
| | | d_1",GEOGCS["GCS_WGS_1984",DATUM["D_ | 996_Geoid_1",SOURCECRS[VERTCRS["WGS_1984" |
| | | WGS_1984",SPHEROID["WGS_1984",637813 | ,DYNAMIC[FRAMEEPOCH[1990.5],MODEL["AM0- |
| | | 7.0,298.257223563]],PRIMEM["Greenwich",0 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | RTCS["WGS_1984",DATUM["D_WGS_1984",S | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | PHEROID["WGS_1984",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 3563]],PARAMETER["Vertical_Shift",0.0],PAR | ERTCRS["EGM96_Geoid",VDATUM["EGM96_Geoid |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | "],CS[vertical,1],AXIS["Gravity-related height |
| | | VERTCS["EGM96_Geoid",VDATUM["EGM96_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Geoid"],PARAMETER["Vertical_Shift",0.0],PA | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | AMEEPOCH[1990.5],MODEL["AM0- |
| | |],VTMETHOD["EGM96"],PARAMETER["Datase | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | t_egm96.grd",0.0],OPERATIONACCURACY[1.5 | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm96.grd"],OPERATIONACCURACY[1.5]] |

| WKID | Name | WKT1 | WKT2 |
|-------|----------------------------------|---------------------------------------------|------------------------------------------------------|
| 10109 | NAD83(CSRS)v7_to_CGVD2013a(2010) | VERTTRAN["NAD83(CSRS)v7_to_CGVD2013a(| COORDINATEOPERATION["NAD83(CSRS)v7_to_CG |
| | _Height_1 | 2010)_Height_1",GEOGCS["NAD83(CSRS)v7", | VD2013a(2010)_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["North_American_Datum_of_1983_(| NAD83(CSRS)v7",DATUM["North_American_Datu |
| | | CSRS)_version_7",SPHEROID["GRS_1980",637 | m_of_1983_(CSRS)_version_7",ELLIPSOID["GRS_1 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["NAD83(CSRS)v7",DATUM["North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_Datum_of_1983_(CSRS)_version_7 | ERTCRS["CGVD2013_CGG2013a_height",VDATUM |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ["Canadian_Geodetic_Vertical_Datum_of_2013_C |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | GG2013a"],CS[vertical,1],AXIS["Gravity-related |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | height |
| | | 0]],VERTCS["CGVD2013_CGG2013a_height",V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | DATUM["Canadian_Geodetic_Vertical_Datu | ONCRS[GEOGCRS["NAD83(CSRS)v7",DATUM["Nort |
| | | m_of_2013_CGG2013a"],PARAMETER["Vertic | h_American_Datum_of_1983_(CSRS)_version_7", |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | AMETER["Interpolation_Type",30.0],PARAME | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | TER["Dataset_CGG2013an83",0.0],OPERATIO |],CS[ellipsoidal,2],AXIS["Latitude |
| | | NACCURACY[0.03]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013an83"],OPERATION |
| | | | ACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|-------|----------------------------------|---------------------------------------------|------------------------------------------------------|
| 10110 | NAD83(CSRS)v4_to_CGVD2013a(2002) | VERTTRAN["NAD83(CSRS)v4_to_CGVD2013a(| COORDINATEOPERATION["NAD83(CSRS)v4_to_CG |
| | _Height_1 | 2002)_Height_1",GEOGCS["NAD83(CSRS)v4", | VD2013a(2002)_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["North_American_Datum_of_1983_(| NAD83(CSRS)v4",DATUM["North_American_Datu |
| | | CSRS)_version_4",SPHEROID["GRS_1980",637 | m_of_1983_(CSRS)_version_4",ELLIPSOID["GRS_1 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["NAD83(CSRS)v4",DATUM["North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_Datum_of_1983_(CSRS)_version_4 | ERTCRS["CGVD2013a(2002)_height",VDATUM["Ca |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | nadian_Geodetic_Vertical_Datum_of_2013_(CGG |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | 2013a)_epoch_2002"],CS[vertical,1],AXIS["Gravity- |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | related height |
| | | 0]],VERTCS["CGVD2013a(2002)_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["Canadian_Geodetic_Vertical_Datum_of | ONCRS[GEOGCRS["NAD83(CSRS)v4",DATUM["Nort |
| | | _2013_(CGG2013a)_epoch_2002"],PARAMET | h_American_Datum_of_1983_(CSRS)_version_4", |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | OID"],PARAMETER["Interpolation_Type",30.0 | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | |],PARAMETER["Dataset_CGG2013an83",0.0], |],CS[ellipsoidal,2],AXIS["Latitude |
| | | OPERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013an83"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|-------|----------------------------------|---------------------------------------------|------------------------------------------------------|
| 10111 | NAD83(CSRS)v3_to_CGVD2013a(1997) | VERTTRAN["NAD83(CSRS)v3_to_CGVD2013a(| COORDINATEOPERATION["NAD83(CSRS)v3_to_CG |
| | _Height_1 | 1997)_Height_1",GEOGCS["NAD83(CSRS)v3", | VD2013a(1997)_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["North_American_Datum_of_1983_(| NAD83(CSRS)v3",DATUM["North_American_Datu |
| | | CSRS)_version_3",SPHEROID["GRS_1980",637 | m_of_1983_(CSRS)_version_3",ELLIPSOID["GRS_1 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["NAD83(CSRS)v3",DATUM["North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_Datum_of_1983_(CSRS)_version_3 | ERTCRS["CGVD2013a(1997)_height",VDATUM["Ca |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | nadian_Geodetic_Vertical_Datum_of_2013_(CGG |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | 2013a)_epoch_1997"],CS[vertical,1],AXIS["Gravity- |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | related height |
| | | 0]],VERTCS["CGVD2013a(1997)_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["Canadian_Geodetic_Vertical_Datum_of | ONCRS[GEOGCRS["NAD83(CSRS)v3",DATUM["Nort |
| | | _2013_(CGG2013a)_epoch_1997"],PARAMET | h_American_Datum_of_1983_(CSRS)_version_3", |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | OID"],PARAMETER["Interpolation_Type",30.0 | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | |],PARAMETER["Dataset_CGG2013an83",0.0], |],CS[ellipsoidal,2],AXIS["Latitude |
| | | OPERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013an83"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|-------|----------------------------------|---------------------------------------------|------------------------------------------------------|
| 10112 | NAD83(CSRS)v2_to_CGVD2013a(1997) | VERTTRAN["NAD83(CSRS)v2_to_CGVD2013a(| COORDINATEOPERATION["NAD83(CSRS)v2_to_CG |
| | _Height_1 | 1997)_Height_1",GEOGCS["NAD83(CSRS)v2", | VD2013a(1997)_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["North_American_Datum_of_1983_(| NAD83(CSRS)v2",DATUM["North_American_Datu |
| | | CSRS)_version_2",SPHEROID["GRS_1980",637 | m_of_1983_(CSRS)_version_2",ELLIPSOID["GRS_1 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["NAD83(CSRS)v2",DATUM["North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_Datum_of_1983_(CSRS)_version_2 | ERTCRS["CGVD2013a(1997)_height",VDATUM["Ca |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | nadian_Geodetic_Vertical_Datum_of_2013_(CGG |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | 2013a)_epoch_1997"],CS[vertical,1],AXIS["Gravity- |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | related height |
| | | 0]],VERTCS["CGVD2013a(1997)_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["Canadian_Geodetic_Vertical_Datum_of | ONCRS[GEOGCRS["NAD83(CSRS)v2",DATUM["Nort |
| | | _2013_(CGG2013a)_epoch_1997"],PARAMET | h_American_Datum_of_1983_(CSRS)_version_2", |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | OID"],PARAMETER["Interpolation_Type",30.0 | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | |],PARAMETER["Dataset_CGG2013an83",0.0], |],CS[ellipsoidal,2],AXIS["Latitude |
| | | OPERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013an83"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|-------|-----------------------------------|----------------------------------------------|---------------------------------------------------|
| 10247 | Slovenia_1996_To_SVS2010_Height_1 | VERTTRAN["Slovenia_1996_To_SVS2010_Hei | COORDINATEOPERATION["Slovenia_1996_To_SVS |
| | | ght_1",GEOGCS["GCS_Slovenia_1996",DATU | 2010_Height_1",SOURCECRS[VERTCRS["Slovenia_ |
| | | M["D_Slovenia_Geodetic_Datum_1996",SPH | 1996",DATUM["D_Slovenia_Geodetic_Datum_199 |
| | | EROID["GRS_1980",6378137.0,298.25722210 | 6",ELLIPSOID["GRS_1980",6378137.0,298.2572221 |
| | | 1]],PRIMEM["Greenwich",0.0],UNIT["Degree" | 01,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS[|
| | | ,0.0174532925199433]],VERTCS["Slovenia_1 | "Ellipsoidal height |
| | | 996",DATUM["D_Slovenia_Geodetic_Datum_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 1996",SPHEROID["GRS_1980",6378137.0,298 | ERTCRS["SVS2010",VDATUM["Slovenian_Vertical_ |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | System_2010"],CS[vertical,1],AXIS["Gravity- |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | related height |
| | | ",1.0]],VERTCS["SVS2010",VDATUM["Slovenia | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | n_Vertical_System_2010"],PARAMETER["Vert | ONCRS[GEOGCRS["GCS_Slovenia_1996",DATUM[" |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | D_Slovenia_Geodetic_Datum_1996",ELLIPSOID["G |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | RAMETER["Dataset_SLO_VRP2016- | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | Koper",0.0],OPERATIONACCURACY[0.1]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["SLO_VRP2016- |
| | | | Koper"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|-------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 10294 | ETRS89_DREF91_2016_To_DHHN2016 | VERTTRAN["ETRS89_DREF91_2016_To_DHH | COORDINATEOPERATION["ETRS89_DREF91_2016_ |
| | _Height_1 | N2016_Height_1",GEOGCS["ETRS89_DREF91 | To_DHHN2016_Height_1",SOURCECRS[VERTCRS[" |
| | | _2016",DATUM["ETRS89_DREF91_Realization | ETRS89_DREF91_2016",DATUM["ETRS89_DREF91 |
| | | _2016",SPHEROID["GRS_1980",6378137.0,29 | _Realization_2016",ELLIPSOID["GRS_1980",63781 |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | CS[vertical,1],AXIS["Ellipsoidal height |
| | | ETRS89_DREF91_2016",DATUM["ETRS89_DR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | EF91_Realization_2016",SPHEROID["GRS_198 | ERTCRS["DHHN2016_(height)",VDATUM["Deutsch |
| | | 0",6378137.0,298.257222101]],PARAMETER[| es_Haupthoehennetz_2016"],CS[vertical,1],AXIS[" |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | Gravity-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["DHHN2016 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | _(height)",VDATUM["Deutsches_Haupthoehe | ONCRS[GEOGCRS["ETRS89_DREF91_2016",DATU |
| | | nnetz_2016"],PARAMETER["Vertical_Shift",0. | M["ETRS89_DREF91_Realization_2016",ELLIPSOID |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | ["GRS_1980",6378137.0,298.257222101,LENGTHU |
| | | ",1.0]],VTMETHOD["GEOID"],PARAMETER["D | NIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANG |
| | | ataset_GCG2016",0.0],OPERATIONACCURACY | LEUNIT["Degree",0.0174532925199433]],CS[ellips |
| | | [0.02]] | oidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GCG2016"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|-------|--------------------------|----------------------------------------------|-------------------------------------------------------|
| 10347 | ETRF2000-PL_To_EVRF2007- | VERTTRAN["ETRF2000-PL_To_EVRF2007- | COORDINATEOPERATION["ETRF2000- |
| | PL_Height_2 | PL_Height_2",GEOGCS["ETRF2000- | PL_To_EVRF2007- |
| | | PL",DATUM["ETRF2000_Poland",SPHEROID[" | PL_Height_2",SOURCECRS[VERTCRS["ETRF2000- |
| | | GRS_1980",6378137.0,298.257222101]],PRI | PL",DATUM["ETRF2000_Poland",ELLIPSOID["GRS_ |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | 4532925199433]],VERTCS["ETRF2000- | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | PL",DATUM["ETRF2000_Poland",SPHEROID[" | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | GRS_1980",6378137.0,298.257222101]],PAR | ERTCRS["EVRF_2007_PL_height",VDATUM["Europ |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ean_Vertical_Reference_Frame_2007_Poland"],CS |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["EV | [vertical,1],AXIS["Gravity-related height |
| | | RF_2007_PL_height",VDATUM["European_Ve | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | rtical_Reference_Frame_2007_Poland"],PAR | ONCRS[GEOGCRS["ETRF2000- |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | PL",DATUM["ETRF2000_Poland",ELLIPSOID["GRS_ |
| | | irection",1.0],UNIT["Meter",1.0]],VTMETHOD | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | ["GEOID"],PARAMETER["Interpolation_Type", | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | 40.0],PARAMETER["Dataset_Model_quasi- | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | geoidy-PL-geoid2021-PL-EVRF2007- | 2],AXIS["Latitude |
| | | NH",0.0],OPERATIONACCURACY[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["Model_quasi-geoidy-PL- |
| | | | geoid2021-PL-EVRF2007- |
| | | | NH"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|-------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10358 | ETRS89_to_Formentera_Height_1 | VERTTRAN["ETRS89_to_Formentera_Height_ 1",GEOGCS["GCS_ETRS_1989",DATUM["D_ET RS_1989",SPHEROID["GRS_1980",6378137.0, 298.257222101]],PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433]],VERT CS["ETRS_1989",DATUM["D_ETRS_1989",SPH EROID["GRS_1980",6378137.0,298.25722210 1]],PARAMETER["Vertical_Shift",0.0],PARAME TER["Direction",1.0],UNIT["Meter",1.0]],VERT CS["Formentera_height",VDATUM["Forment era"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",1.0],UNIT["Meter",1.0]],V TMETHOD["GEOID"],PARAMETER["Dataset_E GM08_REDNAP",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ETRS89_to_Formenter a_Height_1",SOURCECRS[VERTCRS["ETRS_1989",D ATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",637 8137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Formentera_height",VDATUM["Forment era"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP"],OPERATIONACCURACY[0.05]] |
| 10360 | ETRS89_to_Alboran_Height_1 | VERTTRAN["ETRS89_to_Alboran_Height_1",G EOGCS["GCS_ETRS_1989",DATUM["D_ETRS_ 1989",SPHEROID["GRS_1980",6378137.0,298 .257222101]],PRIMEM["Greenwich",0.0],UNI T["Degree",0.0174532925199433]],VERTCS[" ETRS_1989",DATUM["D_ETRS_1989",SPHERO ID["GRS_1980",6378137.0,298.257222101]],P ARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS[" Alboran_height",VDATUM["Alboran"],PARAM ETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["G EOID"],PARAMETER["Dataset_EGM08_REDN AP",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["ETRS89_to_Alboran_H eight_1",SOURCECRS[VERTCRS["ETRS_1989",DAT UM["D_ETRS_1989",ELLIPSOID["GRS_1980",63781 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Alboran_height",VDATUM["Alboran"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["EGM08_REDNAP"],OPERATIONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|-------|----------------------------|----------------------------------------------|-------------------------------------------------|
| 10362 | ETRS89_to_Melilla_Height_1 | VERTTRAN["ETRS89_to_Melilla_Height_1",GE | COORDINATEOPERATION["ETRS89_to_Melilla_Hei |
| | | OGCS["GCS_ETRS_1989",DATUM["D_ETRS_1 | ght_1",SOURCECRS[VERTCRS["ETRS_1989",DATU |
| | | 989",SPHEROID["GRS_1980",6378137.0,298. | M["D_ETRS_1989",ELLIPSOID["GRS_1980",637813 |
| | | 257222101]],PRIMEM["Greenwich",0.0],UNIT | 7.0,298.257222101,LENGTHUNIT["Meter",1.0]]],C |
| | | ["Degree",0.0174532925199433]],VERTCS["E | S[vertical,1],AXIS["Ellipsoidal height |
| | | TRS_1989",DATUM["D_ETRS_1989",SPHEROI | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | D["GRS_1980",6378137.0,298.257222101]],P | ERTCRS["Melilla_height",VDATUM["Melilla"],CS[ve |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| rtical,1],AXIS["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Melilla_height",VDATUM["Melilla"],PARAME | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | TER["Vertical_Shift",0.0],PARAMETER["Directi | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | OID"],PARAMETER["Dataset_EGM08_REDNA | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | P",0.0],OPERATIONACCURACY[0.05]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGM08_REDNAP"],OPERATIONACCURACY[|
| | | | 0.05]] |

| WKID | Name | WKT1 | WKT2 |
|-------|----------------------------------|---------------------------------------------|------------------------------------------------------|
| 10417 | NAD83(CSRS)v8_to_CGVD2013a(2010) | VERTTRAN["NAD83(CSRS)v8_to_CGVD2013a(| COORDINATEOPERATION["NAD83(CSRS)v8_to_CG |
| | _Height_1 | 2010)_Height_1",GEOGCS["NAD83(CSRS)v8", | VD2013a(2010)_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["North_American_Datum_of_1983_(| NAD83(CSRS)v8",DATUM["North_American_Datu |
| | | CSRS)_version_8",SPHEROID["GRS_1980",637 | m_of_1983_(CSRS)_version_8",ELLIPSOID["GRS_1 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["NAD83(CSRS)v8",DATUM["North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_Datum_of_1983_(CSRS)_version_8 | ERTCRS["CGVD2013_CGG2013a_height",VDATUM |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ["Canadian_Geodetic_Vertical_Datum_of_2013_C |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | GG2013a"],CS[vertical,1],AXIS["Gravity-related |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | height |
| | | 0]],VERTCS["CGVD2013_CGG2013a_height",V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | DATUM["Canadian_Geodetic_Vertical_Datu | ONCRS[GEOGCRS["NAD83(CSRS)v8",DATUM["Nort |
| | | m_of_2013_CGG2013a"],PARAMETER["Vertic | h_American_Datum_of_1983_(CSRS)_version_8", |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | AMETER["Interpolation_Type",30.0],PARAME | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | TER["Dataset_CGG2013an83",0.0],OPERATIO |],CS[ellipsoidal,2],AXIS["Latitude |
| | | NACCURACY[0.03]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013an83"],OPERATION |
| | | | ACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|-------|---------------------------------|-----------------------------------------------|---------------------------------------------------|
| 10418 | NAD83(CSRS)v8_to_CGVD28_Height_ | VERTTRAN["NAD83(CSRS)v8_to_CGVD28_Hei | COORDINATEOPERATION["NAD83(CSRS)v8_to_CG |
| | 1 | ght_1",GEOGCS["NAD83(CSRS)v8",DATUM[" | VD28_Height_1",SOURCECRS[VERTCRS["NAD83(C |
| | | North_American_Datum_of_1983_(CSRS)_ve | SRS)v8",DATUM["North_American_Datum_of_198 |
| | | rsion_8",SPHEROID["GRS_1980",6378137.0,2 | 3_(CSRS)_version_8",ELLIPSOID["GRS_1980",6378 |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | NIT["Degree",0.0174532925199433]],VERTCS | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | ["NAD83(CSRS)v8",DATUM["North_American | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _Datum_of_1983_(CSRS)_version_8",SPHERO | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | CGVD_1928",VDATUM["Canadian_Geodetic_ | ONCRS[GEOGCRS["NAD83(CSRS)v8",DATUM["Nort |
| | | Vertical_Datum_of_1928"],PARAMETER["Ver | h_American_Datum_of_1983_(CSRS)_version_8", |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Interpolation_Type",30.0],PARAM | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ETER["Dataset_HT2_2010v70",0.0],OPERATIO |],CS[ellipsoidal,2],AXIS["Latitude |
| | | NACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_2010v70"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|-------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 10491 | ETRS89_To_DVR90(2013)_Height_1 | VERTTRAN["ETRS89_To_DVR90(2013)_Height | COORDINATEOPERATION["ETRS89_To_DVR90(201 |
| | | _1",GEOGCS["GCS_ETRS_1989",DATUM["D_E | 3)_Height_1",SOURCECRS[VERTCRS["ETRS_1989", |
| | | TRS_1989",SPHEROID["GRS_1980",6378137.0 | DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6 |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | UNIT["Degree",0.0174532925199433]],VERT | 0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | CS["ETRS_1989",DATUM["D_ETRS_1989",SPH | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | EROID["GRS_1980",6378137.0,298.25722210 | ERTCRS["DVR90(2013)_height",VDATUM["Dansk_ |
| | | 1]],PARAMETER["Vertical_Shift",0.0],PARAME | Vertikal_Reference_1990_(2013)"],CS[vertical,1],A |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VERT | XIS["Gravity-related height |
| | | CS["DVR90(2013)_height",VDATUM["Dansk_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertikal_Reference_1990_(2013)"],PARAMET | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | OID"],PARAMETER["Dataset_dvr90_2013",0. | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | 0],OPERATIONACCURACY[0.03]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["dvr90_2013"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|-------|----------------------|----------------------------------------------|--------------------------------------------------|
| 10506 | RGF93_v2b_To_NGF- | VERTTRAN["RGF93_v2b_To_NGF- | COORDINATEOPERATION["RGF93_v2b_To_NGF- |
| | IGN78_Height_RAC23_3 | IGN78_Height_RAC23_3",GEOGCS["RGF93_v | IGN78_Height_RAC23_3",SOURCECRS[VERTCRS["R |
| | | 2b",DATUM["Reseau_Geodesique_Francais_ | GF93_v2b",DATUM["Reseau_Geodesique_Francai |
| | | 1993_v2b",SPHEROID["GRS_1980",6378137.0 | s_1993_v2b",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | 98.257222101,LENGTHUNIT["Meter",1.0]]],CS[vert |
| | | UNIT["Degree",0.0174532925199433]],VERT | ical,1],AXIS["Ellipsoidal height |
| | | CS["RGF93_v2b",DATUM["Reseau_Geodesiqu | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | e_Francais_1993_v2b",SPHEROID["GRS_1980 | ERTCRS["NGF_IGN78",VDATUM["Nivellement_Ge |
| | | ",6378137.0,298.257222101]],PARAMETER[" | neral_de_la_France_IGN78"],CS[vertical,1],AXIS[" |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | Gravity-related height |
| | | .0],UNIT["Meter",1.0]],VERTCS["NGF_IGN78", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VDATUM["Nivellement_General_de_la_Franc | ONCRS[GEOGCRS["RGF93_v2b",DATUM["Reseau_ |
| | | e_IGN78"],PARAMETER["Vertical_Shift",0.0], | Geodesique_Francais_1993_v2b",ELLIPSOID["GRS |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | .0]],VTMETHOD["GEOID"],PARAMETER["Data | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | set_RAC23",0.0],OPERATIONACCURACY[0.02] | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | |] | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RAC23"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|-------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10544 | ETRS89_Height_To_Cascais_Height_G eodPT08 | VERTTRAN["ETRS89_Height_To_Cascais_Height_GeodPT08",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Cascais",VDATUM["Cascais"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_GeodPT08",0.0],OPERATIONACCURACY[0.04]] | COORDINATEOPERATION["ETRS89_Height_To_Cas cais_Height_GeodPT08",SOURCECRS[VERTCRS["ET RS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GR S_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Cascais",VDATUM["Cascais"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["GeodPT08"],OPERATIONACCURACY[0.04]] |
| 10567 | ETRS89_To_Baltic_1957_Height_2_CR 2005 | VERTTRAN["ETRS89_To_Baltic_1957_Height_2_CR2005",GEOGCS["GCS_ETRS_1989",DATU M["D_ETRS_1989",SPHEROID["GRS_1980",63 78137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.2 57222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Baltic_1957_height",VDATUM["Baltic_1957"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["In terpolation_Type",40.0],PARAMETER["Dataset_CR2005",0.0],OPERATIONACCURACY[0.03]] | COORDINATEOPERATION["ETRS89_To_Baltic_195 7_Height_2_CR2005",SOURCECRS[VERTCRS["ETRS _1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_ 1980",6378137.0,298.257222101,LENGTHUNIT[" Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Baltic_1957_height",VDATUM["Baltic_19 57"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. 0]],PARAMETERFILE["CR2005"],OPERATIONACCUR ACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|-------|------------------------------|---------------------------------------------|----------------------------------------------------|
| 15781 | WGS_1984_To_EGM_1984_Geoid_1 | VERTTRAN["WGS_1984_To_EGM_1984_Geoi | COORDINATEOPERATION["WGS_1984_To_EGM_1 |
| | | d_1",GEOGCS["GCS_WGS_1984",DATUM["D_ | 984_Geoid_1",SOURCECRS[VERTCRS["WGS_1984" |
| | | WGS_1984",SPHEROID["WGS_1984",637813 | ,DYNAMIC[FRAMEEPOCH[1990.5],MODEL["AM0- |
| | | 7.0,298.257223563]],PRIMEM["Greenwich",0 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | RTCS["WGS_1984",DATUM["D_WGS_1984",S | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | PHEROID["WGS_1984",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 3563]],PARAMETER["Vertical_Shift",0.0],PAR | ERTCRS["EGM84_Geoid",VDATUM["EGM84_Geoid |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | "],CS[vertical,1],AXIS["Gravity-related height |
| | | VERTCS["EGM84_Geoid",VDATUM["EGM84_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Geoid"],PARAMETER["Vertical_Shift",0.0],PA | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | AMEEPOCH[1990.5],MODEL["AM0- |
| | |],VTMETHOD["EGM84"],PARAMETER["Datase | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | t_egm84.grd",0.0],OPERATIONACCURACY[1.0 | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | |]] | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM84"],PARAMETE |
| | | | RFILE["egm84.grd"],OPERATIONACCURACY[1.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 110000 | NAD_1983_2011_To_NAVD88_CONUS | VERTTRAN["NAD_1983_2011_To_NAVD88_C | COORDINATEOPERATION["NAD_1983_2011_To_N |
| | _GEOID12B_Height | ONUS_GEOID12B_Height",GEOGCS["GCS_NA | AVD88_CONUS_GEOID12B_Height",SOURCECRS[V |
| | | D_1983_2011",DATUM["D_NAD_1983_2011" | ERTCRS["NAD_1983_2011",DYNAMIC[FRAMEEPO |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | CH[2010.0],MODEL["HTDP"]],DATUM["D_NAD_19 |
| | | 22101]],PRIMEM["Greenwich",0.0],UNIT["De | 83_2011",ELLIPSOID["GRS_1980",6378137.0,298.2 |
| | | gree",0.0174532925199433]],VERTCS["NAD_ | 57222101,LENGTHUNIT["Meter",1.0]]],CS[vertical, |
| | | 1983_2011",DATUM["D_NAD_1983_2011",S | 1],AXIS["Ellipsoidal height |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ty-related height |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | RAMETER["Dataset_g2012bu0",0.0],OPERATI | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | ONACCURACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110001 | NAD_1983_2011_To_NAVD88_Alaska | VERTTRAN["NAD_1983_2011_To_NAVD88_A | COORDINATEOPERATION["NAD_1983_2011_To_N |
| | _GEOID12B_Height | laska_GEOID12B_Height",GEOGCS["GCS_NAD | AVD88_Alaska_GEOID12B_Height",SOURCECRS[VE |
| | | _1983_2011",DATUM["D_NAD_1983_2011", | RTCRS["NAD_1983_2011",DYNAMIC[FRAMEEPOC |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | H[2010.0],MODEL["HTDP"]],DATUM["D_NAD_198 |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | 3_2011",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | ee",0.0174532925199433]],VERTCS["NAD_19 | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | 83_2011",DATUM["D_NAD_1983_2011",SPH |],AXIS["Ellipsoidal height |
| | | EROID["GRS_1980",6378137.0,298.25722210 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 1]],PARAMETER["Vertical_Shift",0.0],PARAME | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VERT | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | CS["NAVD_1988",VDATUM["North_American | ty-related height |
| | | _Vertical_Datum_1988"],PARAMETER["Vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | AMETER["Dataset_g2012ba0",0.0],OPERATIO | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | NACCURACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110002 | NAD_1983_PA11_To_NAVD88_Hawaii | VERTTRAN["NAD_1983_PA11_To_NAVD88_H | COORDINATEOPERATION["NAD_1983_PA11_To_N |
| | _GEOID12B_Height | awaii_GEOID12B_Height",GEOGCS["GCS_NA | AVD88_Hawaii_GEOID12B_Height",SOURCECRS[V |
| | | D_1983_PA11",DATUM["D_NAD_1983_PA11 | ERTCRS["NAD_1983_PA11",DYNAMIC[FRAMEEPO |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | CH[2012.4467],MODEL["HTDP"]],DATUM["D_NAD |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | _1983_PA11",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | egree",0.0174532925199433]],VERTCS["NAD | 98.257222101,LENGTHUNIT["Meter",1.0]]],CS[vert |
| | | _1983_PA11",DATUM["D_NAD_1983_PA11", | ical,1],AXIS["Ellipsoidal height |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | VERTCS["NAVD_1988",VDATUM["North_Ame | ty-related height |
| | | rican_Vertical_Datum_1988"],PARAMETER[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | ONCRS[GEOGCRS["GCS_NAD_1983_PA11",DYNA |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | PARAMETER["Dataset_g2012bh0",0.0],OPER | DATUM["D_NAD_1983_PA11",ELLIPSOID["GRS_19 |
| | | ATIONACCURACY[0.017]] | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bh0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 110003 | NAD_1983_2011_To_PRVD02_GEOID | VERTTRAN["NAD_1983_2011_To_PRVD02_G | COORDINATEOPERATION["NAD_1983_2011_To_P |
| | 12B_Height | EOID12B_Height",GEOGCS["GCS_NAD_1983_ | RVD02_GEOID12B_Height",SOURCECRS[VERTCRS[|
| | | 2011",DATUM["D_NAD_1983_2011",SPHERO | "NAD_1983_2011",DYNAMIC[FRAMEEPOCH[2010. |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | 0],MODEL["HTDP"]],DATUM["D_NAD_1983_2011" |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | ,ELLIPSOID["GRS_1980",6378137.0,298.25722210 |
| | | 74532925199433]],VERTCS["NAD_1983_2011 | 1,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS[" |
| | | ",DATUM["D_NAD_1983_2011",SPHEROID[" | Ellipsoidal height |
| | | GRS_1980",6378137.0,298.257222101]],PAR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ERTCRS["PRVD02_height",VDATUM["Puerto_Rico_ |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["PR | Vertical_Datum_of_2002"],CS[vertical,1],AXIS["Gr |
| | | VD02_height",VDATUM["Puerto_Rico_Vertic | avity-related height |
| | | al_Datum_of_2002"],PARAMETER["Vertical_S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | ER["Dataset_g2012bp0",0.0],OPERATIONACC | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | URACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bp0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-----------------------------------------------|--------------------------------------------------|
| 110004 | NAD_1983_PA11_To_ASVD02_GEOID | VERTTRAN["NAD_1983_PA11_To_ASVD02_G | COORDINATEOPERATION["NAD_1983_PA11_To_A |
| | 12B_Height | EOID12B_Height",GEOGCS["GCS_NAD_1983_ | SVD02_GEOID12B_Height",SOURCECRS[VERTCRS[|
| | | PA11",DATUM["D_NAD_1983_PA11",SPHER | "NAD_1983_PA11",DYNAMIC[FRAMEEPOCH[2012. |
| | | OID["GRS_1980",6378137.0,298.257222101]] | 4467],MODEL["HTDP"]],DATUM["D_NAD_1983_P |
| | | ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. | A11",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | 0174532925199433]],VERTCS["NAD_1983_P | 22101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],A |
| | | A11",DATUM["D_NAD_1983_PA11",SPHEROI | XIS["Ellipsoidal height |
| | | D["GRS_1980",6378137.0,298.257222101]],P | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ERTCRS["ASVD02_height",VDATUM["American_Sa |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | moa_Vertical_Datum_of_2002"],CS[vertical,1],AXI |
| | | ASVD02_height",VDATUM["American_Samoa | S["Gravity-related height |
| | | _Vertical_Datum_of_2002"],PARAMETER["Ve | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | ONCRS[GEOGCRS["GCS_NAD_1983_PA11",DYNA |
| | | ,UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | RAMETER["Dataset_g2012bs0",0.0],OPERATI | DATUM["D_NAD_1983_PA11",ELLIPSOID["GRS_19 |
| | | ONACCURACY[0.017]] | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bs0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|---------------------------------------------------|
| 110005 | NAD_1983_MA11_To_GUVD04_GEOI | VERTTRAN["NAD_1983_MA11_To_GUVD04_ | COORDINATEOPERATION["NAD_1983_MA11_To_ |
| | D12B_Height | GEOID12B_Height",GEOGCS["GCS_NAD_1983 | GUVD04_GEOID12B_Height",SOURCECRS[VERTCR |
| | | _MA11",DATUM["D_NAD_1983_MA11",SPHE | S["NAD_1983_MA11",DYNAMIC[FRAMEEPOCH[20 |
| | | ROID["GRS_1980",6378137.0,298.257222101 | 12.4467],MODEL["HTDP"]],DATUM["D_NAD_1983 |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | _MA11",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 0.0174532925199433]],VERTCS["NAD_1983_ | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE |],AXIS["Ellipsoidal height |
| | | ROID["GRS_1980",6378137.0,298.257222101 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | |]],PARAMETER["Vertical_Shift",0.0],PARAMET | ERTCRS["GUVD04_height",VDATUM["Guam_Verti |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | cal_Datum_of_2004"],CS[vertical,1],AXIS["Gravity- |
| | | S["GUVD04_height",VDATUM["Guam_Vertica | related height |
| | | I_Datum_of_2004"],PARAMETER["Vertical_S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_MA11",DYNA |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | ER["Dataset_g2012bg0",0.0],OPERATIONACC | DATUM["D_NAD_1983_MA11",ELLIPSOID["GRS_1 |
| | | URACY[0.017]] | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | | AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bg0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110006 | NAD_1983_To_VIVD09_GEOID12B_He | VERTTRAN["NAD_1983_To_VIVD09_GEOID12 | COORDINATEOPERATION["NAD_1983_To_VIVD09 |
| | ight | B_Height",GEOGCS["GCS_North_American_1 | _GEOID12B_Height",SOURCECRS[VERTCRS["NAD_ |
| | | 983",DATUM["D_North_American_1983",SP | 1983",DATUM["D_North_American_1983",ELLIPS |
| | | HEROID["GRS_1980",6378137.0,298.2572221 | OID["GRS_1980",6378137.0,298.257222101,LENG |
| | | 01]],PRIMEM["Greenwich",0.0],UNIT["Degree | THUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoi |
| | | ",0.0174532925199433]],VERTCS["NAD_1983 | dal height |
| | | ",DATUM["D_North_American_1983",SPHER | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | OID["GRS_1980",6378137.0,298.257222101]] | ERTCRS["VIVD09_height",VDATUM["Virgin_Islands |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | _Vertical_Datum_of_2009"],CS[vertical,1],AXIS["G |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | ravity-related height |
| | | ["VIVD09_height",VDATUM["Virgin_Islands_V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ertical_Datum_of_2009"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | AMETER["Dataset_g2012bp0",0.0],OPERATIO | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | NACCURACY[0.017]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bp0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|---------------------------------------------|----------------------------------------------------|
| 110007 | WGS_1984_To_EGM_1996_Geoid_1 | VERTTRAN["WGS_1984_To_EGM_1996_Geoi | COORDINATEOPERATION["WGS_1984_To_EGM_1 |
| | | d_1",GEOGCS["GCS_WGS_1984",DATUM["D_ | 996_Geoid_1",SOURCECRS[VERTCRS["WGS_1984" |
| | | WGS_1984",SPHEROID["WGS_1984",637813 | ,DYNAMIC[FRAMEEPOCH[1990.5],MODEL["AM0- |
| | | 7.0,298.257223563]],PRIMEM["Greenwich",0 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | RTCS["WGS_1984",DATUM["D_WGS_1984",S | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | PHEROID["WGS_1984",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 3563]],PARAMETER["Vertical_Shift",0.0],PAR | ERTCRS["EGM96_Geoid",VDATUM["EGM96_Geoid |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | "],CS[vertical,1],AXIS["Gravity-related height |
| | | VERTCS["EGM96_Geoid",VDATUM["EGM96_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Geoid"],PARAMETER["Vertical_Shift",0.0],PA | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | AMEEPOCH[1990.5],MODEL["AM0- |
| | |],VTMETHOD["EGM96"],PARAMETER["Datase | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | t_egm96.grd",0.0],OPERATIONACCURACY[1.5 | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm96.grd"],OPERATIONACCURACY[1.5]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|---------------------------------------------|----------------------------------------------------|
| 110008 | WGS_1984_To_EGM_1984_Geoid_1 | VERTTRAN["WGS_1984_To_EGM_1984_Geoi | COORDINATEOPERATION["WGS_1984_To_EGM_1 |
| | | d_1",GEOGCS["GCS_WGS_1984",DATUM["D_ | 984_Geoid_1",SOURCECRS[VERTCRS["WGS_1984" |
| | | WGS_1984",SPHEROID["WGS_1984",637813 | ,DYNAMIC[FRAMEEPOCH[1990.5],MODEL["AM0- |
| | | 7.0,298.257223563]],PRIMEM["Greenwich",0 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | RTCS["WGS_1984",DATUM["D_WGS_1984",S | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | PHEROID["WGS_1984",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 3563]],PARAMETER["Vertical_Shift",0.0],PAR | ERTCRS["EGM84_Geoid",VDATUM["EGM84_Geoid |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | "],CS[vertical,1],AXIS["Gravity-related height |
| | | VERTCS["EGM84_Geoid",VDATUM["EGM84_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Geoid"],PARAMETER["Vertical_Shift",0.0],PA | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | AMEEPOCH[1990.5],MODEL["AM0- |
| | |],VTMETHOD["EGM84"],PARAMETER["Datase | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | t_egm84.grd",0.0],OPERATIONACCURACY[1.0 | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM84"],PARAMETE |
| | | | RFILE["egm84.grd"],OPERATIONACCURACY[1.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------|---------------------------------------------|---------------------------------------------------|
| 110009 | NGVD29_To_NAVD88_NAD27_ECW | VERTTRAN["NGVD29_To_NAVD88_NAD27_E | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | CW",GEOGCS["GCS_North_American_1927", | NAD27_ECW",SOURCECRS[VERTCRS["NGVD_1929 |
| | | DATUM["D_North_American_1927",SPHEROI | ",VDATUM["National_Geodetic_Vertical_Datum_1 |
| | | D["Clarke_1866",6378206.4,294.9786982]],P | 929"],CS[vertical,1],AXIS["Gravity-related height |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 74532925199433]],VERTCS["NGVD_1929",VD | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | ATUM["National_Geodetic_Vertical_Datum_ | UM["North_American_Vertical_Datum_1988"],CS[|
| | | 1929"],PARAMETER["Vertical_Shift",0.0],PAR | vertical,1],AXIS["Gravity-related height |
| | | AMETER["Direction",1.0],UNIT["Foot_US",0.3 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 048006096012192]],VERTCS["NAVD_1988",V | ONCRS[GEOGCRS["GCS_North_American_1927",D |
| | | DATUM["North_American_Vertical_Datum_1 | ATUM["D_North_American_1927",ELLIPSOID["Cla |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | rke_1866",6378206.4,294.9786982,LENGTHUNIT[" |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | TMETHOD["VERTCON"],PARAMETER["Datase | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | t_vertconecw.94",0.0],OPERATIONACCURACY | 2],AXIS["Latitude |
| | | [0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------|---------------------------------------------|---------------------------------------------------|
| 110010 | NGVD29_To_NAVD88_NAD83_East | VERTTRAN["NGVD29_To_NAVD88_NAD83_E | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | ast",GEOGCS["GCS_North_American_1983",D | NAD83_East",SOURCECRS[VERTCRS["NGVD_1929" |
| | | ATUM["D_North_American_1983",SPHEROID | ,VDATUM["National_Geodetic_Vertical_Datum_1 |
| | | ["GRS_1980",6378137.0,298.257222101]],PRI | 929"],CS[vertical,1],AXIS["Gravity-related height |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 4532925199433]],VERTCS["NGVD_1929",VDA | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | TUM["National_Geodetic_Vertical_Datum_1 | UM["North_American_Vertical_Datum_1988"],CS[|
| | | 929"],PARAMETER["Vertical_Shift",0.0],PARA | vertical,1],AXIS["Gravity-related height |
| | | METER["Direction",1.0],UNIT["Foot_US",0.30 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 48006096012192]],VERTCS["NAVD_1988",VD | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | ATUM["North_American_Vertical_Datum_19 | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | 88"],PARAMETER["Vertical_Shift",0.0],PARA | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | TMETHOD["VERTCON"],PARAMETER["Datase | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | t_vertcone.94",0.0],OPERATIONACCURACY[0. | I,2],AXIS["Latitude |
| | | 02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertcone.94"],OPERATIONACCURACY[0.0 |
| | | | 2]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------|---------------------------------------------|---------------------------------------------------|
| 110011 | NGVD29_To_NAVD88_NAD83_ECW | VERTTRAN["NGVD29_To_NAVD88_NAD83_E | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | CW",GEOGCS["GCS_North_American_1983", | NAD83_ECW",SOURCECRS[VERTCRS["NGVD_1929 |
| | | DATUM["D_North_American_1983",SPHEROI | ",VDATUM["National_Geodetic_Vertical_Datum_1 |
| | | D["GRS_1980",6378137.0,298.257222101]],P | 929"],CS[vertical,1],AXIS["Gravity-related height |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 74532925199433]],VERTCS["NGVD_1929",VD | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | ATUM["National_Geodetic_Vertical_Datum_ | UM["North_American_Vertical_Datum_1988"],CS[|
| | | 1929"],PARAMETER["Vertical_Shift",0.0],PAR | vertical,1],AXIS["Gravity-related height |
| | | AMETER["Direction",1.0],UNIT["Foot_US",0.3 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 048006096012192]],VERTCS["NAVD_1988",V | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | DATUM["North_American_Vertical_Datum_1 | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | TMETHOD["VERTCON"],PARAMETER["Datase | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | t_vertconecw.94",0.0],OPERATIONACCURACY | I,2],AXIS["Latitude |
| | | [0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|-----------------------------------------------------|
| 110012 | NGVD29_To_NAVD88_NAD83_Central | VERTTRAN["NGVD29_To_NAVD88_NAD83_C | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | entral",GEOGCS["GCS_North_American_1983 | NAD83_Central",SOURCECRS[VERTCRS["NGVD_19 |
| | | ",DATUM["D_North_American_1983",SPHER | 29",VDATUM["National_Geodetic_Vertical_Datum |
| | | OID["GRS_1980",6378137.0,298.257222101]] | _1929"],CS[vertical,1],AXIS["Gravity-related height |
| | | ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 0174532925199433]],VERTCS["NGVD_1929", | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | VDATUM["National_Geodetic_Vertical_Datu | UM["North_American_Vertical_Datum_1988"],CS[|
| | | m_1929"],PARAMETER["Vertical_Shift",0.0],P | vertical,1],AXIS["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0.3048006096012192]],VERTCS["NAVD_1988 | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | ",VDATUM["North_American_Vertical_Datu | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | 0]],VTMETHOD["VERTCON"],PARAMETER["Da | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | taset_vertconc.94",0.0],OPERATIONACCURAC | I,2],AXIS["Latitude |
| | | Y[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconc.94"],OPERATIONACCURACY[0.0 |
| | | | [2]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------|--------------------------------------------|---------------------------------------------------|
| 110013 | NGVD29_To_NAVD88_NAD83_West | VERTTRAN["NGVD29_To_NAVD88_NAD83_ | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | West",GEOGCS["GCS_North_American_1983 | NAD83_West",SOURCECRS[VERTCRS["NGVD_1929 |
| | | ",DATUM["D_North_American_1983",SPHER | ",VDATUM["National_Geodetic_Vertical_Datum_1 |
| | | OID["GRS_1980",6378137.0,298.257222101]] | 929"],CS[vertical,1],AXIS["Gravity-related height |
| | | ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 0174532925199433]],VERTCS["NGVD_1929", | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | VDATUM["National_Geodetic_Vertical_Datu | UM["North_American_Vertical_Datum_1988"],CS[|
| | | m_1929"],PARAMETER["Vertical_Shift",0.0],P | vertical,1],AXIS["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0.3048006096012192]],VERTCS["NAVD_1988 | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | ",VDATUM["North_American_Vertical_Datu | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | 0]],VTMETHOD["VERTCON"],PARAMETER["Da | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | taset_vertconw.94",0.0],OPERATIONACCURA | I,2],AXIS["Latitude |
| | | CY[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconw.94"],OPERATIONACCURACY[0. |
| | | | 02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------|----------------------------------------------|--------------------------------------------------|
| 110014 | NGVD29_To_NAVD88_HARN_East | VERTTRAN["NGVD29_To_NAVD88_HARN_Ea | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | st",GEOGCS["GCS_North_American_1983_HA | HARN_East",SOURCECRS[VERTCRS["NGVD_1929", |
| | | RN",DATUM["D_North_American_1983_HAR | VDATUM["National_Geodetic_Vertical_Datum_19 |
| | | N",SPHEROID["GRS_1980",6378137.0,298.25 | 29"],CS[vertical,1],AXIS["Gravity-related height |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | Degree",0.0174532925199433]],VERTCS["NG | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | VD_1929",VDATUM["National_Geodetic_Ver | UM["North_American_Vertical_Datum_1988"],CS[|
| | | tical_Datum_1929"],PARAMETER["Vertical_S | vertical,1],AXIS["Gravity-related height |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Foot_US",0.3048006096012192]],VERTCS["N | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | AVD_1988",VDATUM["North_American_Verti | ARN",DATUM["D_North_American_1983_HARN", |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | Meter",1.0]],VTMETHOD["VERTCON"],PARA | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | METER["Dataset_vertcone.94",0.0],OPERATI |],CS[ellipsoidal,2],AXIS["Latitude |
| | | ONACCURACY[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertcone.94"],OPERATIONACCURACY[0.0 |
| | | | 2]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------|----------------------------------------------|--------------------------------------------------|
| 110015 | NGVD29_To_NAVD88_HARN_ECW | VERTTRAN["NGVD29_To_NAVD88_HARN_EC | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | W",GEOGCS["GCS_North_American_1983_H | HARN_ECW",SOURCECRS[VERTCRS["NGVD_1929", |
| | | ARN",DATUM["D_North_American_1983_HA | VDATUM["National_Geodetic_Vertical_Datum_19 |
| | | RN",SPHEROID["GRS_1980",6378137.0,298.2 | 29"],CS[vertical,1],AXIS["Gravity-related height |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | "Degree",0.0174532925199433]],VERTCS["N | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | GVD_1929",VDATUM["National_Geodetic_Ve | UM["North_American_Vertical_Datum_1988"],CS[|
| | | rtical_Datum_1929"],PARAMETER["Vertical_S | vertical,1],AXIS["Gravity-related height |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Foot_US",0.3048006096012192]],VERTCS["N | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | AVD_1988",VDATUM["North_American_Verti | ARN",DATUM["D_North_American_1983_HARN", |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | Meter",1.0]],VTMETHOD["VERTCON"],PARA | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | METER["Dataset_vertconecw.94",0.0],OPERA |],CS[ellipsoidal,2],AXIS["Latitude |
| | | TIONACCURACY[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|----------------------------------------------------|
| 110016 | NGVD29_To_NAVD88_HARN_Central | VERTTRAN["NGVD29_To_NAVD88_HARN_Ce | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | ntral",GEOGCS["GCS_North_American_1983_ | HARN_Central",SOURCECRS[VERTCRS["NGVD_192 |
| | | HARN",DATUM["D_North_American_1983_H | 9",VDATUM["National_Geodetic_Vertical_Datum_ |
| | | ARN",SPHEROID["GRS_1980",6378137.0,298. | 1929"],CS[vertical,1],AXIS["Gravity-related height |
| | | 257222101]],PRIMEM["Greenwich",0.0],UNIT | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ["Degree",0.0174532925199433]],VERTCS["N | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | GVD_1929",VDATUM["National_Geodetic_Ve | UM["North_American_Vertical_Datum_1988"],CS[|
| | | rtical_Datum_1929"],PARAMETER["Vertical_S | vertical,1],AXIS["Gravity-related height |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Foot_US",0.3048006096012192]],VERTCS["N | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | AVD_1988",VDATUM["North_American_Verti | ARN",DATUM["D_North_American_1983_HARN", |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | Meter",1.0]],VTMETHOD["VERTCON"],PARA | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | METER["Dataset_vertconc.94",0.0],OPERATI |],CS[ellipsoidal,2],AXIS["Latitude |
| | | ONACCURACY[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconc.94"],OPERATIONACCURACY[0.0 |
| | | | 2]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------|----------------------------------------------|---------------------------------------------------|
| 110017 | NGVD29_To_NAVD88_HARN_West | VERTTRAN["NGVD29_To_NAVD88_HARN_W | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | est",GEOGCS["GCS_North_American_1983_H | HARN_West",SOURCECRS[VERTCRS["NGVD_1929" |
| | | ARN",DATUM["D_North_American_1983_HA | ,VDATUM["National_Geodetic_Vertical_Datum_1 |
| | | RN",SPHEROID["GRS_1980",6378137.0,298.2 | 929"],CS[vertical,1],AXIS["Gravity-related height |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | "Degree",0.0174532925199433]],VERTCS["N | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | GVD_1929",VDATUM["National_Geodetic_Ve | UM["North_American_Vertical_Datum_1988"],CS[|
| | | rtical_Datum_1929"],PARAMETER["Vertical_S | vertical,1],AXIS["Gravity-related height |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Foot_US",0.3048006096012192]],VERTCS["N | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | AVD_1988",VDATUM["North_American_Verti | ARN",DATUM["D_North_American_1983_HARN", |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | Meter",1.0]],VTMETHOD["VERTCON"],PARA | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | METER["Dataset_vertconw.94",0.0],OPERATI |],CS[ellipsoidal,2],AXIS["Latitude |
| | | ONACCURACY[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconw.94"],OPERATIONACCURACY[0. |
| | | | 02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110018 | WGS_1984_To_WGS_1984_EGM2008 | VERTTRAN["WGS_1984_To_WGS_1984_EGM | COORDINATEOPERATION["WGS_1984_To_WGS_1 |
| | _1x1_Height | 2008_1x1_Height",GEOGCS["GCS_WGS_1984 | 984_EGM2008_1x1_Height",SOURCECRS[VERTCRS |
| | | ",DATUM["D_WGS_1984",SPHEROID["WGS_ | ["WGS_1984",DYNAMIC[FRAMEEPOCH[1990.5],M |
| | | 1984",6378137.0,298.257223563]],PRIMEM[" | ODEL["AM0- |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 5199433]],VERTCS["WGS_1984",DATUM["D_ | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | WGS_1984",SPHEROID["WGS_1984",637813 | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 7.0,298.257223563]],PARAMETER["Vertical_S | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ERTCRS["EGM2008_Geoid",VDATUM["EGM2008_ |
| | | Meter",1.0]],VERTCS["EGM2008_Geoid",VDA | Geoid"],CS[vertical,1],AXIS["Gravity-related height |
| | | TUM["EGM2008_Geoid"],PARAMETER["Verti | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | NIT["Meter",1.0]],VTMETHOD["EGM96"],PAR | AMEEPOCH[1990.5],MODEL["AM0- |
| | | AMETER["Dataset_egm2008- | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 1.grd",1.0],OPERATIONACCURACY[0.2]] | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm2008- |
| | | | 1.grd"],OPERATIONACCURACY[0.2]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110019 | WGS_1984_To_WGS_1984_EGM2008 | VERTTRAN["WGS_1984_To_WGS_1984_EGM | COORDINATEOPERATION["WGS_1984_To_WGS_1 |
| | _2.5x2.5_Height | 2008_2.5x2.5_Height",GEOGCS["GCS_WGS_1 | 984_EGM2008_2.5x2.5_Height",SOURCECRS[VERT |
| | | 984",DATUM["D_WGS_1984",SPHEROID["W | CRS["WGS_1984",DYNAMIC[FRAMEEPOCH[1990.5 |
| | | GS_1984",6378137.0,298.257223563]],PRIM |],MODEL["AM0- |
| | | EM["Greenwich",0.0],UNIT["Degree",0.01745 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 32925199433]],VERTCS["WGS_1984",DATUM | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | ["D_WGS_1984",SPHEROID["WGS_1984",637 | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 8137.0,298.257223563]],PARAMETER["Vertic | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ERTCRS["EGM2008_Geoid",VDATUM["EGM2008_ |
| | | NIT["Meter",1.0]],VERTCS["EGM2008_Geoid" | Geoid"],CS[vertical,1],AXIS["Gravity-related height |
| | | ,VDATUM["EGM2008_Geoid"],PARAMETER[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["EGM96"] | AMEEPOCH[1990.5],MODEL["AM0- |
| | | ,PARAMETER["Dataset_egm2008- | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 25.grd",0.0],OPERATIONACCURACY[0.25]] | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm2008- |
| | | | 25.grd"],OPERATIONACCURACY[0.25]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|---------------------------------------------|---------------------------------------------------|
| 110020 | GDA2020_Height_To_AHD_Height_AU | VERTTRAN["GDA2020_Height_To_AHD_Heig | COORDINATEOPERATION["GDA2020_Height_To_A |
| | SGeoid2020_1 | ht_AUSGeoid2020_1",GEOGCS["GDA2020",D | HD_Height_AUSGeoid2020_1",SOURCECRS[VERTC |
| | | ATUM["GDA2020",SPHEROID["GRS_1980",63 | RS["GDA2020",DYNAMIC[FRAMEEPOCH[2020.0], |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | MODEL["GDA2020- |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | PMM"]],DATUM["GDA2020",ELLIPSOID["GRS_198 |
| | |]],VERTCS["GDA2020",DATUM["GDA2020",SP | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | HEROID["GRS_1980",6378137.0,298.2572221 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 01]],PARAMETER["Vertical_Shift",0.0],PARA | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | ERTCRS["AHD",VDATUM["Australian_Height_Datu |
| | | ERTCS["AHD",VDATUM["Australian_Height_D | m"],CS[vertical,1],AXIS["Gravity-related height |
| | | atum"],PARAMETER["Vertical_Shift",0.0],PAR | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | ONCRS[GEOGCRS["GDA2020",DYNAMIC[FRAMEEP |
| | | VTMETHOD["GEOID"],PARAMETER["Interpola | OCH[2020.0],MODEL["GDA2020- |
| | | tion_Type",40.0],PARAMETER["Dataset_AUS | PMM"]],DATUM["GDA2020",ELLIPSOID["GRS_198 |
| | | Geoid2020_windows_binary",0.0],OPERATIO | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | NACCURACY[0.03]] | r",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["D |
| | | | egree",0.0174532925199433]],CS[ellipsoidal,2],AX |
| | | | IS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",40.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["AUSGeoid2020_windows_bi |
| | | | nary"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|-------------------------------------------------|
| 110021 | ETRS89_Height_To_Oostende_Height | VERTTRAN["ETRS89_Height_To_Oostende_H | COORDINATEOPERATION["ETRS89_Height_To_Oo |
| | _hBG18 | eight_hBG18",GEOGCS["GCS_ETRS_1989",DA | stende_Height_hBG18",SOURCECRS[VERTCRS["ET |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | RS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GR |
| | | 6378137.0,298.257222101]],PRIMEM["Green | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | wich",0.0],UNIT["Degree",0.01745329251994 | "Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 33]],VERTCS["ETRS_1989",DATUM["D_ETRS_ | height |
| | | 1989",SPHEROID["GRS_1980",6378137.0,298 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | ERTCRS["Oostende",VDATUM["Oostende"],CS[vert |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | ical,1],AXIS["Gravity-related height |
| | | ",1.0]],VERTCS["Oostende",VDATUM["Oosten | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | de"],PARAMETER["Vertical_Shift",0.0],PARA | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | TMETHOD["GEOID"],PARAMETER["Dataset_h | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | BG18",0.0],OPERATIONACCURACY[0.02]] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["hBG18"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|--------------------------------------------------|
| 110022 | D96_to_SVS2010_ht_SLO_VRP2016_K | VERTTRAN["D96_to_SVS2010_ht_SLO_VRP20 | COORDINATEOPERATION["D96_to_SVS2010_ht_S |
| | oper | 16_Koper",GEOGCS["GCS_Slovenia_1996",DA | LO_VRP2016_Koper",SOURCECRS[VERTCRS["Slove |
| | | TUM["D_Slovenia_Geodetic_Datum_1996",S | nia_1996",DATUM["D_Slovenia_Geodetic_Datum |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | _1996",ELLIPSOID["GRS_1980",6378137.0,298.257 |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | 222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1], |
| | | e",0.0174532925199433]],VERTCS["Slovenia_ | AXIS["Ellipsoidal height |
| | | 1996",DATUM["D_Slovenia_Geodetic_Datum | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | _1996",SPHEROID["GRS_1980",6378137.0,29 | ERTCRS["SVS2010",VDATUM["Slovenian_Vertical_ |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | System_2010"],CS[vertical,1],AXIS["Gravity- |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | related height |
| | | ",1.0]],VERTCS["SVS2010",VDATUM["Slovenia | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | n_Vertical_System_2010"],PARAMETER["Vert | ONCRS[GEOGCRS["GCS_Slovenia_1996",DATUM[" |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | D_Slovenia_Geodetic_Datum_1996",ELLIPSOID["G |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | RAMETER["Interpolation_Type",41.0],PARAM | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | ETER["Dataset_SLO_VRP2016- | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | Koper",0.0],OPERATIONACCURACY[0.1]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",41.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["SLO_VRP2016- |
| | | | Koper"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110023 | D96_to_SVS2000_ht_SLO_AMG2000E _Trst | VERTTRAN["D96_to_SVS2000_ht_SLO_AMG2 000E_Trst",GEOGCS["GCS_Slovenia_1996",D ATUM["D_Slovenia_Geodetic_Datum_1996",SPHEROID["GRS_1980",6378137.0,298.25722 2101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["Slovenia_1996",DATUM["D_Slovenia_Geodetic_Datum_1996",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["SVS2000",VDATUM["Slovenian_Vertical_System_2000"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Interpolation_Type",41.0],PARAMETER["Dataset_SLO_AMG2000E-Trst",0.0],OPERATIONACCURACY[0.2]] | COORDINATEOPERATION["D96_to_SVS2000_ht_S LO_AMG2000E_Trst",SOURCECRS[VERTCRS["Slove nia_1996",DATUM["D_Slovenia_Geodetic_Datum _1996",ELLIPSOID["GRS_1980",6378137.0,298.257 222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1], AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["SVS2000",VDATUM["Slovenian_Vertical_ System_2000"],CS[vertical,1],AXIS["Gravity- related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_Slovenia_1996",DATUM[" D_Slovenia_Geodetic_Datum_1996",ELLIPSOID["G RS_1980",6378137.0,298.257222101,LENGTHUNIT ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU NIT["Degree",0.0174532925199433]],CS[ellipsoida I,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE R["Interpolation_Type",41.0,SCALEUNIT["Unity",1. 0]],PARAMETERFILE["SLO_AMG2000E- Trst"],OPERATIONACCURACY[0.2]] |
| 110024 | NAVD88_Height_To_Depth | VERTTRAN["NAVD88_Height_To_Depth",VER TCS["NAVD_1988",VDATUM["North_America n_Vertical_Datum_1988"],PARAMETER["Verti cal_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VERTCS["NAVD88_depth", VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PAR AMETER["Direction",- 1.0],UNIT["Meter",1.0]],VTMETHOD["Height_Depth_Reversal"],OPERATIONACCURACY[0.0]] | COORDINATEOPERATION["NAVD88_Height_To_D epth",SOURCECRS[VERTCRS["NAVD_1988",VDATU M["North_American_Vertical_Datum_1988"],CS[v ertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["NAVD88_depth",VDATUM["North_Ame rican_Vertical_Datum_1988"],CS[vertical,1],AXIS[" Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],METHOD["Height_Depth_Reversal"],OPERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------|-----------------------------------------------|----------------------------------------------------|
| 110025 | NAVD88_USFT_Height_To_Depth | VERTTRAN["NAVD88_USFT_Height_To_Dept | COORDINATEOPERATION["NAVD88_USFT_Height_ |
| | | h",VERTCS["NAVD88_height_(ftUS)",VDATU | To_Depth",SOURCECRS[VERTCRS["NAVD88_height |
| | | M["North_American_Vertical_Datum_1988"] | _(ftUS)",VDATUM["North_American_Vertical_Dat |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | um_1988"],CS[vertical,1],AXIS["Gravity-related |
| | | R["Direction",1.0],UNIT["Foot_US",0.3048006 | height |
| | | 096012192]],VERTCS["NAVD88_depth_(ftUS) | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ",VDATUM["North_American_Vertical_Datu | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ft |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | US)",VDATUM["North_American_Vertical_Datum_ |
| | | ARAMETER["Direction",- | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | VTMETHOD["Height_Depth_Reversal"],OPER | 012192]]]],METHOD["Height_Depth_Reversal"],O |
| | | ATIONACCURACY[0.0]] | PERATIONACCURACY[0.0]] |
| 110026 | NAVD88_Height_(m)_To_USFT | VERTTRAN["NAVD88_Height_(m)_To_USFT", | COORDINATEOPERATION["NAVD88_Height_(m)_T |
| | | VERTCS["NAVD_1988",VDATUM["North_Ame | o_USFT",SOURCECRS[VERTCRS["NAVD_1988",VDA |
| | | rican_Vertical_Datum_1988"],PARAMETER[" | TUM["North_American_Vertical_Datum_1988"],C |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | S[vertical,1],AXIS["Gravity-related height |
| | | .0],UNIT["Meter",1.0]],VERTCS["NAVD88_hei | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ght_(ftUS)",VDATUM["North_American_Verti | VERTCRS["NAVD88_height_(ftUS)",VDATUM["Nort |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | h_American_Vertical_Datum_1988"],CS[vertical,1] |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT["F | ,AXIS["Gravity-related height |
| | | oot_US",0.3048006096012192]],VTMETHOD[| (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | "Unit_Change"],OPERATIONACCURACY[0.0]] | 192]]]],METHOD["Unit_Change"],OPERATIONACC |
| | | | URACY[0.0]] |
| 110027 | NAVD88_Height_(m)_To_IFT | VERTTRAN["NAVD88_Height_(m)_To_IFT",VE | COORDINATEOPERATION["NAVD88_Height_(m)_T |
| | | RTCS["NAVD_1988",VDATUM["North_Americ | o_IFT",SOURCECRS[VERTCRS["NAVD_1988",VDAT |
| | | an_Vertical_Datum_1988"],PARAMETER["Ver | UM["North_American_Vertical_Datum_1988"],CS[|
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | vertical,1],AXIS["Gravity-related height |
| | | UNIT["Meter",1.0]],VERTCS["NAVD88_height | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | _(ftIntl)",VDATUM["North_American_Vertical | VERTCRS["NAVD88_height_(ftIntl)",VDATUM["Nor |
| | | _Datum_1988"],PARAMETER["Vertical_Shift", | th_American_Vertical_Datum_1988"],CS[vertical,1 |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Foot |],AXIS["Gravity-related height |
| | | ",0.3048]],VTMETHOD["Unit_Change"],OPER | (H)",up,LENGTHUNIT["Foot",0.3048]]]],METHOD[" |
| | | ATIONACCURACY[0.0]] | Unit_Change"],OPERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110028 | NAVD88_Height_USFT_To_IFT | VERTTRAN["NAVD88_Height_USFT_To_IFT",V ERTCS["NAVD88_height_(ftUS)",VDATUM["N orth_American_Vertical_Datum_1988"],PAR AMETER["Vertical_Shift",0.0],PARAMETER["D irection",1.0],UNIT["Foot_US",0.3048006096 012192]],VERTCS["NAVD88_height_(ftIntl)",V DATUM["North_American_Vertical_Datum_1 988"],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",1.0],UNIT["Foot",0.3048]] ,VTMETHOD["Unit_Change"],OPERATIONACC URACY[0.0]] | COORDINATEOPERATION["NAVD88_Height_USFT_To_IFT",SOURCECRS[VERTCRS["NAVD88_height_(ftUS)",VDATUM["North_American_Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot_US",0.3048006096012192]]]],TARGETCRS[VERTCRS["NAVD88_height_(ftIntl)",VDATUM["North_American_Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot",0.3048]]]],METHOD["Unit_Change"],OPERATIONACCURACY[0.0]] |
| 110029 | NAVD88_Depth_(m)_To_USFT | VERTTRAN["NAVD88_Depth_(m)_To_USFT",V ERTCS["NAVD88_depth",VDATUM["North_A merican_Vertical_Datum_1988"],PARAMETE R["Vertical_Shift",0.0],PARAMETER["Directio n",- 1.0],UNIT["Meter",1.0]],VERTCS["NAVD88_de pth_(ftUS)",VDATUM["North_American_Verti cal_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",- 1.0],UNIT["Foot_US",0.3048006096012192]],VTMETHOD["Unit_Change"],OPERATIONACC URACY[0.0]] | COORDINATEOPERATION["NAVD88_Depth_(m)_T o_USFT",SOURCECRS[VERTCRS["NAVD88_depth", VDATUM["North_American_Vertical_Datum_1988 "],CS[vertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Meter",1.0]]]],TARGETCR S[VERTCRS["NAVD88_depth_(ftUS)",VDATUM["No rth_American_Vertical_Datum_1988"],CS[vertical, 1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Foot_US",0.3048006096 012192]]]],METHOD["Unit_Change"],OPERATIONA CCURACY[0.0]] |
| 110030 | NAVD88_Height_(m)_To_Depth_USFT | VERTTRAN["NAVD88_Height_(m)_To_Depth_ USFT",VERTCS["NAVD_1988",VDATUM["Nort h_American_Vertical_Datum_1988"],PARAM ETER["Vertical_Shift",0.0],PARAMETER["Direc tion",1.0],UNIT["Meter",1.0]],VERTCS["NAVD 88_depth_(ftUS)",VDATUM["North_American _Vertical_Datum_1988"],PARAMETER["Vertic al_Shift",0.0],PARAMETER["Direction",- 1.0],UNIT["Foot_US",0.3048006096012192]], VTMETHOD["Height_Depth_Reversal"],OPER ATIONACCURACY[0.0]] | COORDINATEOPERATION["NAVD88_Height_(m)_T o_Depth_USFT",SOURCECRS[VERTCRS["NAVD_198 8",VDATUM["North_American_Vertical_Datum_1 988"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ftUS)",VDATUM["Nort h_American_Vertical_Datum_1988"],CS[vertical,1] ,AXIS["Gravity-related height (H)",down,LENGTHUNIT["Foot_US",0.3048006096 012192]]]],METHOD["Height_Depth_Reversal"],O PERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|---------------------------------------------------|
| 110031 | NAD_1983_To_NAVD88_CONUS_GEOI | VERTTRAN["NAD_1983_To_NAVD88_CONUS | COORDINATEOPERATION["NAD_1983_To_NAVD8 |
| | D12B_Height | _GEOID12B_Height",GEOGCS["GCS_North_A | 8_CONUS_GEOID12B_Height",SOURCECRS[VERTC |
| | | merican_1983",DATUM["D_North_American | RS["NAD_1983",DATUM["D_North_American_198 |
| | | _1983",SPHEROID["GRS_1980",6378137.0,29 | 3",ELLIPSOID["GRS_1980",6378137.0,298.2572221 |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | 01,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS[|
| | | IT["Degree",0.0174532925199433]],VERTCS[" | "Ellipsoidal height |
| | | NAD_1983",DATUM["D_North_American_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 83",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | ty-related height |
| | | .0]],VERTCS["NAVD_1988",VDATUM["North_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | American_Vertical_Datum_1988"],PARAMET | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | OID"],PARAMETER["Dataset_g2012bu0",0.0], | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | OPERATIONACCURACY[0.017]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|---------------------------------------------------|
| 110032 | NAD_1983_To_NAVD88_Alaska_GEOI | VERTTRAN["NAD_1983_To_NAVD88_Alaska_ | COORDINATEOPERATION["NAD_1983_To_NAVD8 |
| | D12B_Height | GEOID12B_Height",GEOGCS["GCS_North_Am | 8_Alaska_GEOID12B_Height",SOURCECRS[VERTCR |
| | | erican_1983",DATUM["D_North_American_1 | S["NAD_1983",DATUM["D_North_American_1983 |
| | | 983",SPHEROID["GRS_1980",6378137.0,298. | ",ELLIPSOID["GRS_1980",6378137.0,298.25722210 |
| | | 257222101]],PRIMEM["Greenwich",0.0],UNIT | 1,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS[" |
| | | ["Degree",0.0174532925199433]],VERTCS["N | Ellipsoidal height |
| | | AD_1983",DATUM["D_North_American_1983 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | ty-related height |
| | | 0]],VERTCS["NAVD_1988",VDATUM["North_A | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | merican_Vertical_Datum_1988"],PARAMETE | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOI | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | D"],PARAMETER["Dataset_g2012ba0",0.0],OP | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | ERATIONACCURACY[0.017]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|---------------------------------------------------|
| 110033 | NAD_1983_To_NAVD88_Hawaii_GEOI | VERTTRAN["NAD_1983_To_NAVD88_Hawaii_ | COORDINATEOPERATION["NAD_1983_To_NAVD8 |
| | D12B_Height | GEOID12B_Height",GEOGCS["GCS_North_Am | 8_Hawaii_GEOID12B_Height",SOURCECRS[VERTCR |
| | | erican_1983",DATUM["D_North_American_1 | S["NAD_1983",DATUM["D_North_American_1983 |
| | | 983",SPHEROID["GRS_1980",6378137.0,298. | ",ELLIPSOID["GRS_1980",6378137.0,298.25722210 |
| | | 257222101]],PRIMEM["Greenwich",0.0],UNIT | 1,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS[" |
| | | ["Degree",0.0174532925199433]],VERTCS["N | Ellipsoidal height |
| | | AD_1983",DATUM["D_North_American_1983 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | ty-related height |
| | | 0]],VERTCS["NAVD_1988",VDATUM["North_A | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | merican_Vertical_Datum_1988"],PARAMETE | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOI | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | D"],PARAMETER["Dataset_g2012bh0",0.0],O | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | PERATIONACCURACY[0.017]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bh0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110034 | NAD_1983_To_PRVD02_GEOID12B_H | VERTTRAN["NAD_1983_To_PRVD02_GEOID1 | COORDINATEOPERATION["NAD_1983_To_PRVD02 |
| | eight | 2B_Height",GEOGCS["GCS_North_American_ | _GEOID12B_Height",SOURCECRS[VERTCRS["NAD_ |
| | | 1983",DATUM["D_North_American_1983",SP | 1983",DATUM["D_North_American_1983",ELLIPS |
| | | HEROID["GRS_1980",6378137.0,298.2572221 | OID["GRS_1980",6378137.0,298.257222101,LENG |
| | | 01]],PRIMEM["Greenwich",0.0],UNIT["Degree | THUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoi |
| | | ",0.0174532925199433]],VERTCS["NAD_1983 | dal height |
| | | ",DATUM["D_North_American_1983",SPHER | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | OID["GRS_1980",6378137.0,298.257222101]] | ERTCRS["PRVD02_height",VDATUM["Puerto_Rico_ |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | Vertical_Datum_of_2002"],CS[vertical,1],AXIS["Gr |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | avity-related height |
| | | ["PRVD02_height",VDATUM["Puerto_Rico_V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ertical_Datum_of_2002"],PARAMETER["Verti | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | AMETER["Dataset_g2012bp0",0.0],OPERATIO | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | NACCURACY[0.017]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bp0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110035 | NAD_1983_2011_To_VIVD09_GEOID1 | VERTTRAN["NAD_1983_2011_To_VIVD09_GE | COORDINATEOPERATION["NAD_1983_2011_To_V |
| | 2B_Height | OID12B_Height",GEOGCS["GCS_NAD_1983_2 | IVD09_GEOID12B_Height",SOURCECRS[VERTCRS[" |
| | | 011",DATUM["D_NAD_1983_2011",SPHEROI | NAD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0 |
| | | D["GRS_1980",6378137.0,298.257222101]],P |],MODEL["HTDP"]],DATUM["D_NAD_1983_2011", |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | 74532925199433]],VERTCS["NAD_1983_2011 | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | ",DATUM["D_NAD_1983_2011",SPHEROID[" | llipsoidal height |
| | | GRS_1980",6378137.0,298.257222101]],PAR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ERTCRS["VIVD09_height",VDATUM["Virgin_Islands |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["VI | _Vertical_Datum_of_2009"],CS[vertical,1],AXIS["G |
| | | VD09_height", VDATUM["Virgin_Islands_Verti | ravity-related height |
| | | cal_Datum_of_2009"],PARAMETER["Vertical_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | "Meter",1.0]],VTMETHOD["GEOID"],PARAME | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | TER["Dataset_g2012bp0",0.0],OPERATIONAC | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | CURACY[0.017]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bp0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|--------------------------------------------------|
| 110036 | NAD_1983_MA11_To_NMVD03_GEOI | VERTTRAN["NAD_1983_MA11_To_NMVD03_ | COORDINATEOPERATION["NAD_1983_MA11_To_ |
| | D12B_Height | GEOID12B_Height",GEOGCS["GCS_NAD_1983 | NMVD03_GEOID12B_Height",SOURCECRS[VERTCR |
| | | _MA11",DATUM["D_NAD_1983_MA11",SPHE | S["NAD_1983_MA11",DYNAMIC[FRAMEEPOCH[20 |
| | | ROID["GRS_1980",6378137.0,298.257222101 | 12.4467],MODEL["HTDP"]],DATUM["D_NAD_1983 |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | _MA11",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 0.0174532925199433]],VERTCS["NAD_1983_ | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE |],AXIS["Ellipsoidal height |
| | | ROID["GRS_1980",6378137.0,298.257222101 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | |]],PARAMETER["Vertical_Shift",0.0],PARAMET | ERTCRS["NMVD03_height",VDATUM["Northern_ |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | Marianas_Vertical_Datum_of_2003"],CS[vertical,1 |
| | | S["NMVD03_height",VDATUM["Northern_Ma |],AXIS["Gravity-related height |
| | | rianas_Vertical_Datum_of_2003"],PARAMET | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ONCRS[GEOGCRS["GCS_NAD_1983_MA11",DYNA |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | OID"],PARAMETER["Dataset_g2012bg0",0.0], | DATUM["D_NAD_1983_MA11",ELLIPSOID["GRS_1 |
| | | OPERATIONACCURACY[0.017]] | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | | AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bg0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|----------------------------------------------------|
| 110037 | NGVD29_To_NAVD88_USFT_NAD27_E | VERTTRAN["NGVD29_To_NAVD88_USFT_NA | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | CW | D27_ECW",GEOGCS["GCS_North_American_ | USFT_NAD27_ECW",SOURCECRS[VERTCRS["NGVD |
| | | 1927",DATUM["D_North_American_1927",SP | _1929",VDATUM["National_Geodetic_Vertical_Da |
| | | HEROID["Clarke_1866",6378206.4,294.97869 | tum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | 82]],PRIMEM["Greenwich",0.0],UNIT["Degree | height |
| | | ",0.0174532925199433]],VERTCS["NGVD_192 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 9",VDATUM["National_Geodetic_Vertical_Da | 192]]]],TARGETCRS[VERTCRS["NAVD88_height_(ft |
| | | tum_1929"],PARAMETER["Vertical_Shift",0.0] | US)",VDATUM["North_American_Vertical_Datum_ |
| | | ,PARAMETER["Direction",1.0],UNIT["Foot_US | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | ",0.3048006096012192]],VERTCS["NAVD88_h | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | eight_(ftUS)",VDATUM["North_American_Ve | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_North |
| | | rtical_Datum_1988"],PARAMETER["Vertical_S | _American_1927",DATUM["D_North_American_1 |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | 927",ELLIPSOID["Clarke_1866",6378206.4,294.978 |
| | | Foot_US",0.3048006096012192]],VTMETHOD | 6982,LENGTHUNIT["Meter",1.0]]],PRIMEM["Green |
| | | ["VERTCON"],PARAMETER["Dataset_vertcone | wich",0.0,ANGLEUNIT["Degree",0.0174532925199 |
| | | cw.94",0.0],OPERATIONACCURACY[0.02]] | 433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|----------------------------------------------------|
| 110038 | NGVD29_To_NAVD88_Depth_USFT_N | VERTTRAN["NGVD29_To_NAVD88_Depth_US | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | AD27_ECW | FT_NAD27_ECW",GEOGCS["GCS_North_Ame | Depth_USFT_NAD27_ECW",SOURCECRS[VERTCRS[|
| | | rican_1927",DATUM["D_North_American_19 | "NGVD_1929",VDATUM["National_Geodetic_Verti |
| | | 27",SPHEROID["Clarke_1866",6378206.4,294. | cal_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 9786982]],PRIMEM["Greenwich",0.0],UNIT[" | related height |
| | | Degree",0.0174532925199433]],VERTCS["NG | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | VD_1929",VDATUM["National_Geodetic_Ver | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ft |
| | | tical_Datum_1929"],PARAMETER["Vertical_S | US)",VDATUM["North_American_Vertical_Datum_ |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | Foot_US",0.3048006096012192]],VERTCS["N | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | AVD88_depth_(ftUS)",VDATUM["North_Ame | 012192]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | rican_Vertical_Datum_1988"],PARAMETER[" | orth_American_1927",DATUM["D_North_America |
| | | Vertical_Shift",0.0],PARAMETER["Direction",- | n_1927",ELLIPSOID["Clarke_1866",6378206.4,294. |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | 9786982,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gr |
| | | VTMETHOD["VERTCON"],PARAMETER["Datas | eenwich",0.0,ANGLEUNIT["Degree",0.0174532925 |
| | | et_vertconecw.94",0.0],OPERATIONACCURAC | 199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Y[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-------------------------------------------|--------------------------------------------------|
| 110039 | NGVD29_To_NAVD88_Depth_NAD83_ | VERTTRAN["NGVD29_To_NAVD88_Depth_N | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | ECW | AD83_ECW",GEOGCS["GCS_North_American | Depth_NAD83_ECW",SOURCECRS[VERTCRS["NGV |
| | | _1983",DATUM["D_North_American_1983",S | D_1929",VDATUM["National_Geodetic_Vertical_D |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | atum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | height |
| | | e",0.0174532925199433]],VERTCS["NGVD_19 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 29",VDATUM["National_Geodetic_Vertical_D | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth",VD |
| | | atum_1929"],PARAMETER["Vertical_Shift",0. | ATUM["North_American_Vertical_Datum_1988"], |
| | | 0],PARAMETER["Direction",1.0],UNIT["Foot_ | CS[vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD8 | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | 8_depth",VDATUM["North_American_Vertic | ATIONCRS[GEOGCRS["GCS_North_American_1983 |
| | | al_Datum_1988"],PARAMETER["Vertical_Shif | ",DATUM["D_North_American_1983",ELLIPSOID[" |
| | | t",0.0],PARAMETER["Direction",- | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["VERTCO | IT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLE |
| | | N"],PARAMETER["Dataset_vertconecw.94",0. | UNIT["Degree",0.0174532925199433]],CS[ellipsoi |
| | | 0],OPERATIONACCURACY[0.02]] | dal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|----------------------------------------------------|
| 110040 | NGVD29_To_NAVD88_USFT_NAD83_E | VERTTRAN["NGVD29_To_NAVD88_USFT_NA | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | CW | D83_ECW",GEOGCS["GCS_North_American_ | USFT_NAD83_ECW",SOURCECRS[VERTCRS["NGVD |
| | | 1983",DATUM["D_North_American_1983",SP | _1929",VDATUM["National_Geodetic_Vertical_Da |
| | | HEROID["GRS_1980",6378137.0,298.2572221 | tum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | 01]],PRIMEM["Greenwich",0.0],UNIT["Degree | height |
| | | ",0.0174532925199433]],VERTCS["NGVD_192 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 9",VDATUM["National_Geodetic_Vertical_Da | 192]]]],TARGETCRS[VERTCRS["NAVD88_height_(ft |
| | | tum_1929"],PARAMETER["Vertical_Shift",0.0] | US)",VDATUM["North_American_Vertical_Datum_ |
| | | ,PARAMETER["Direction",1.0],UNIT["Foot_US | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | ",0.3048006096012192]],VERTCS["NAVD88_h | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | eight_(ftUS)",VDATUM["North_American_Ve | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_North |
| | | rtical_Datum_1988"],PARAMETER["Vertical_S | _American_1983",DATUM["D_North_American_1 |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | 983",ELLIPSOID["GRS_1980",6378137.0,298.25722 |
| | | Foot_US",0.3048006096012192]],VTMETHOD | 2101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Green |
| | | ["VERTCON"],PARAMETER["Dataset_vertcone | wich",0.0,ANGLEUNIT["Degree",0.0174532925199 |
| | | cw.94",0.0],OPERATIONACCURACY[0.02]] | 433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|----------------------------------------------------|
| 110041 | NGVD29_To_NAVD88_Depth_USFT_N | VERTTRAN["NGVD29_To_NAVD88_Depth_US | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | AD83_ECW | FT_NAD83_ECW",GEOGCS["GCS_North_Ame | Depth_USFT_NAD83_ECW",SOURCECRS[VERTCRS[|
| | | rican_1983",DATUM["D_North_American_19 | "NGVD_1929",VDATUM["National_Geodetic_Verti |
| | | 83",SPHEROID["GRS_1980",6378137.0,298.2 | cal_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| related height |
| | | "Degree",0.0174532925199433]],VERTCS["N | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | GVD_1929",VDATUM["National_Geodetic_Ve | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ft |
| | | rtical_Datum_1929"],PARAMETER["Vertical_S | US)",VDATUM["North_American_Vertical_Datum_ |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | Foot_US",0.3048006096012192]],VERTCS["N | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | AVD88_depth_(ftUS)",VDATUM["North_Ame | 012192]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | rican_Vertical_Datum_1988"],PARAMETER[" | orth_American_1983",DATUM["D_North_America |
| | | Vertical_Shift",0.0],PARAMETER["Direction",- | n_1983",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | 7222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gr |
| | | VTMETHOD["VERTCON"],PARAMETER["Datas | eenwich",0.0,ANGLEUNIT["Degree",0.0174532925 |
| | | et_vertconecw.94",0.0],OPERATIONACCURAC | 199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Y[0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-----------------------------------------------|-------------------------------------------------|
| 110042 | NGVD29_To_NAVD88_Depth_HARN_E | VERTTRAN["NGVD29_To_NAVD88_Depth_HA | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | CW | RN_ECW",GEOGCS["GCS_North_American_1 | Depth_HARN_ECW",SOURCECRS[VERTCRS["NGVD |
| | | 983_HARN",DATUM["D_North_American_19 | _1929",VDATUM["National_Geodetic_Vertical_Da |
| | | 83_HARN",SPHEROID["GRS_1980",6378137.0 | tum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | height |
| | | UNIT["Degree",0.0174532925199433]],VERT | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | CS["NGVD_1929",VDATUM["National_Geode | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth",VD |
| | | tic_Vertical_Datum_1929"],PARAMETER["Ver | ATUM["North_American_Vertical_Datum_1988"], |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | CS[vertical,1],AXIS["Gravity-related height |
| | | UNIT["Foot_US",0.3048006096012192]],VERT | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | CS["NAVD88_depth",VDATUM["North_Ameri | ATIONCRS[GEOGCRS["GCS_North_American_1983 |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | _HARN",DATUM["D_North_American_1983_HAR |
| | | rtical_Shift",0.0],PARAMETER["Direction",- | N",ELLIPSOID["GRS_1980",6378137.0,298.257222 |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["VERTCO | 101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Green |
| | | N"],PARAMETER["Dataset_vertconecw.94",0. | wich",0.0,ANGLEUNIT["Degree",0.0174532925199 |
| | | 0],OPERATIONACCURACY[0.02]] | 433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|-----------------------------------------------|----------------------------------------------------|
| 110043 | NGVD29_To_NAVD88_USFT_HARN_E | VERTTRAN["NGVD29_To_NAVD88_USFT_HA | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | CW | RN_ECW",GEOGCS["GCS_North_American_1 | USFT_HARN_ECW",SOURCECRS[VERTCRS["NGVD_ |
| | | 983_HARN",DATUM["D_North_American_19 | 1929",VDATUM["National_Geodetic_Vertical_Dat |
| | | 83_HARN",SPHEROID["GRS_1980",6378137.0 | um_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | height |
| | | UNIT["Degree",0.0174532925199433]],VERT | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | CS["NGVD_1929",VDATUM["National_Geode | 192]]]],TARGETCRS[VERTCRS["NAVD88_height_(ft |
| | | tic_Vertical_Datum_1929"],PARAMETER["Ver | US)",VDATUM["North_American_Vertical_Datum_ |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | UNIT["Foot_US",0.3048006096012192]],VERT | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | CS["NAVD88_height_(ftUS)",VDATUM["North | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_North |
| | | _American_Vertical_Datum_1988"],PARAME | _American_1983_HARN",DATUM["D_North_Amer |
| | | TER["Vertical_Shift",0.0],PARAMETER["Directi | ican_1983_HARN",ELLIPSOID["GRS_1980",637813 |
| | | on",1.0],UNIT["Foot_US",0.30480060960121 | 7.0,298.257222101,LENGTHUNIT["Meter",1.0]]],P |
| | | 92]],VTMETHOD["VERTCON"],PARAMETER[" | RIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0 |
| | | Dataset_vertconecw.94",0.0],OPERATIONACC | 174532925199433]],CS[ellipsoidal,2],AXIS["Latitud |
| | | URACY[0.02]] | e (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|----------------------------------------------------|
| 110044 | NGVD29_To_NAVD88_Depth_USFT_H | VERTTRAN["NGVD29_To_NAVD88_Depth_US | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | ARN_ECW | FT_HARN_ECW",GEOGCS["GCS_North_Ameri | Depth_USFT_HARN_ECW",SOURCECRS[VERTCRS[" |
| | | can_1983_HARN",DATUM["D_North_Americ | NGVD_1929",VDATUM["National_Geodetic_Vertic |
| | | an_1983_HARN",SPHEROID["GRS_1980",637 | al_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | related height |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | |],VERTCS["NGVD_1929",VDATUM["National_ | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ft |
| | | Geodetic_Vertical_Datum_1929"],PARAMETE | US)",VDATUM["North_American_Vertical_Datum_ |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | n",1.0],UNIT["Foot_US",0.304800609601219 | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | 2]],VERTCS["NAVD88_depth_(ftUS)",VDATU | 012192]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | M["North_American_Vertical_Datum_1988"] | orth_American_1983_HARN",DATUM["D_North_A |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | merican_1983_HARN",ELLIPSOID["GRS_1980",637 |
| | | R["Direction",- | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], |]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree" |
| | | VTMETHOD["VERTCON"],PARAMETER["Datas | ,0.0174532925199433]],CS[ellipsoidal,2],AXIS["Lati |
| | | et_vertconecw.94",0.0],OPERATIONACCURAC | tude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Y[0.02]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------|---------------------------------------------|----------------------------------------------------|
| 110045 | NGVD29_To_NAVD88_CORS96_ECW | VERTTRAN["NGVD29_To_NAVD88_CORS96_E | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | | CW",GEOGCS["GCS_NAD_1983_CORS96",DA | CORS96_ECW",SOURCECRS[VERTCRS["NGVD_192 |
| | | TUM["D_NAD_1983_CORS96",SPHEROID["GR | 9",VDATUM["National_Geodetic_Vertical_Datum_ |
| | | S_1980",6378137.0,298.257222101]],PRIME | 1929"],CS[vertical,1],AXIS["Gravity-related height |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 2925199433]],VERTCS["NGVD_1929",VDATU | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | M["National_Geodetic_Vertical_Datum_1929 | UM["North_American_Vertical_Datum_1988"],CS[|
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | vertical,1],AXIS["Gravity-related height |
| | | TER["Direction",1.0],UNIT["Foot_US",0.30480 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 06096012192]],VERTCS["NAVD_1988",VDAT | ONCRS[GEOGCRS["GCS_NAD_1983_CORS96",DYN |
| | | UM["North_American_Vertical_Datum_1988 | AMIC[FRAMEEPOCH[1997.0],MODEL["HTDP"]],DA |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | TUM["D_NAD_1983_CORS96",ELLIPSOID["GRS_19 |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | ETHOD["VERTCON"],PARAMETER["Dataset_v | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | ertconecw.94",0.0],OPERATIONACCURACY[0. | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | 02]] | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|--------------------------------------------|--------------------------------------------------|
| 110046 | NGVD29_To_NAVD88_Depth_CORS96 | VERTTRAN["NGVD29_To_NAVD88_Depth_CO | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | _ECW | RS96_ECW",GEOGCS["GCS_NAD_1983_CORS | Depth_CORS96_ECW",SOURCECRS[VERTCRS["NGV |
| | | 96",DATUM["D_NAD_1983_CORS96",SPHER | D_1929",VDATUM["National_Geodetic_Vertical_D |
| | | OID["GRS_1980",6378137.0,298.257222101]] | atum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. | height |
| | | 0174532925199433]],VERTCS["NGVD_1929", | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | VDATUM["National_Geodetic_Vertical_Datu | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth",VD |
| | | m_1929"],PARAMETER["Vertical_Shift",0.0],P | ATUM["North_American_Vertical_Datum_1988"], |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | CS[vertical,1],AXIS["Gravity-related height |
| | | 0.3048006096012192]],VERTCS["NAVD88_de | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | pth",VDATUM["North_American_Vertical_Da | ATIONCRS[GEOGCRS["GCS_NAD_1983_CORS96",D |
| | | tum_1988"],PARAMETER["Vertical_Shift",0.0] | YNAMIC[FRAMEEPOCH[1997.0],MODEL["HTDP"]], |
| | | ,PARAMETER["Direction",- | DATUM["D_NAD_1983_CORS96",ELLIPSOID["GRS_ |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["VERTCO | 1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | N"],PARAMETER["Dataset_vertconecw.94",0. | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | 0],OPERATIONACCURACY[0.02]] | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|----------------------------------------------------|
| 110047 | NGVD29_To_NAVD88_USFT_CORS96_ | VERTTRAN["NGVD29_To_NAVD88_USFT_CO | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | ECW | RS96_ECW",GEOGCS["GCS_NAD_1983_CORS | USFT_CORS96_ECW",SOURCECRS[VERTCRS["NGV |
| | | 96",DATUM["D_NAD_1983_CORS96",SPHER | D_1929",VDATUM["National_Geodetic_Vertical_D |
| | | OID["GRS_1980",6378137.0,298.257222101]] | atum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. | height |
| | | 0174532925199433]],VERTCS["NGVD_1929", | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | VDATUM["National_Geodetic_Vertical_Datu | 192]]]],TARGETCRS[VERTCRS["NAVD88_height_(ft |
| | | m_1929"],PARAMETER["Vertical_Shift",0.0],P | US)",VDATUM["North_American_Vertical_Datum_ |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | 0.3048006096012192]],VERTCS["NAVD88_he | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ight_(ftUS)",VDATUM["North_American_Vert | 192]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NAD_ |
| | | ical_Datum_1988"],PARAMETER["Vertical_Sh | 1983_CORS96",DYNAMIC[FRAMEEPOCH[1997.0], |
| | | ift",0.0],PARAMETER["Direction",1.0],UNIT["F | MODEL["HTDP"]],DATUM["D_NAD_1983_CORS96 |
| | | oot_US",0.3048006096012192]],VTMETHOD[| ",ELLIPSOID["GRS_1980",6378137.0,298.25722210 |
| | | "VERTCON"],PARAMETER["Dataset_vertcone | 1,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwic |
| | | cw.94",0.0],OPERATIONACCURACY[0.02]] | h",0.0,ANGLEUNIT["Degree",0.0174532925199433 |
| | | |]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-------------------------------------------|----------------------------------------------------|
| 110048 | NGVD29_To_NAVD88_Depth_USFT_C | VERTTRAN["NGVD29_To_NAVD88_Depth_US | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | ORS96_ECW | FT_CORS96_ECW",GEOGCS["GCS_NAD_1983 | Depth_USFT_CORS96_ECW",SOURCECRS[VERTCRS |
| | | _CORS96",DATUM["D_NAD_1983_CORS96",S | ["NGVD_1929",VDATUM["National_Geodetic_Vert |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | ical_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | related height |
| | | e",0.0174532925199433]],VERTCS["NGVD_19 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 29",VDATUM["National_Geodetic_Vertical_D | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ft |
| | | atum_1929"],PARAMETER["Vertical_Shift",0. | US)",VDATUM["North_American_Vertical_Datum_ |
| | | 0],PARAMETER["Direction",1.0],UNIT["Foot_ | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD8 | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | 8_depth_(ftUS)",VDATUM["North_American_ | 012192]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | Vertical_Datum_1988"],PARAMETER["Vertica | AD_1983_CORS96",DYNAMIC[FRAMEEPOCH[1997 |
| | | I_Shift",0.0],PARAMETER["Direction",- | .0],MODEL["HTDP"]],DATUM["D_NAD_1983_CORS |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | 96",ELLIPSOID["GRS_1980",6378137.0,298.257222 |
| | | VTMETHOD["VERTCON"],PARAMETER["Datas | 101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Green |
| | | et_vertconecw.94",0.0],OPERATIONACCURAC | wich",0.0,ANGLEUNIT["Degree",0.0174532925199 |
| | | Y[0.02]] | 433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|---------------------------------------------|-----------------------------------------------------|
| 110049 | NGVD29_To_NAVD88_NSRS2007_EC | VERTTRAN["NGVD29_To_NAVD88_NSRS2007 | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | W | _ECW",GEOGCS["GCS_NAD_1983_NSRS2007 | NSRS2007_ECW",SOURCECRS[VERTCRS["NGVD_19 |
| | | ",DATUM["D_NAD_1983_NSRS2007",SPHERO | 29",VDATUM["National_Geodetic_Vertical_Datum |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | _1929"],CS[vertical,1],AXIS["Gravity-related height |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 74532925199433]],VERTCS["NGVD_1929",VD | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | ATUM["National_Geodetic_Vertical_Datum_ | UM["North_American_Vertical_Datum_1988"],CS[|
| | | 1929"],PARAMETER["Vertical_Shift",0.0],PAR | vertical,1],AXIS["Gravity-related height |
| | | AMETER["Direction",1.0],UNIT["Foot_US",0.3 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 048006096012192]],VERTCS["NAVD_1988",V | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | DATUM["North_American_Vertical_Datum_1 | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | TMETHOD["VERTCON"],PARAMETER["Datase | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | t_vertconecw.94",0.0],OPERATIONACCURACY | 2],AXIS["Latitude |
| | | [0.02]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|--------------------------------------------|-------------------------------------------------|
| 110050 | NGVD29_To_NAVD88_Depth_NSRS20 | VERTTRAN["NGVD29_To_NAVD88_Depth_NS | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | 07_ECW | RS2007_ECW",GEOGCS["GCS_NAD_1983_NS | Depth_NSRS2007_ECW",SOURCECRS[VERTCRS["N |
| | | RS2007",DATUM["D_NAD_1983_NSRS2007", | GVD_1929",VDATUM["National_Geodetic_Vertical |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | _Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | related height |
| | | ee",0.0174532925199433]],VERTCS["NGVD_1 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 929",VDATUM["National_Geodetic_Vertical_ | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth",VD |
| | | Datum_1929"],PARAMETER["Vertical_Shift",0 | ATUM["North_American_Vertical_Datum_1988"], |
| | | .0],PARAMETER["Direction",1.0],UNIT["Foot_ | CS[vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD8 | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | 8_depth",VDATUM["North_American_Vertic | ATIONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007" |
| | | al_Datum_1988"],PARAMETER["Vertical_Shif | ,DATUM["D_NAD_1983_NSRS2007",ELLIPSOID["G |
| | | t",0.0],PARAMETER["Direction",- | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["VERTCO | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | N"],PARAMETER["Dataset_vertconecw.94",0. | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | 0],OPERATIONACCURACY[0.02]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|----------------------------------------------------|
| 110051 | NGVD29_To_NAVD88_USFT_NSRS200 | VERTTRAN["NGVD29_To_NAVD88_USFT_NSR | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | 7_ECW | S2007_ECW",GEOGCS["GCS_NAD_1983_NSR | USFT_NSRS2007_ECW",SOURCECRS[VERTCRS["NG |
| | | S2007",DATUM["D_NAD_1983_NSRS2007",S | VD_1929",VDATUM["National_Geodetic_Vertical_ |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | Datum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | height |
| | | e",0.0174532925199433]],VERTCS["NGVD_19 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 29",VDATUM["National_Geodetic_Vertical_D | 192]]],TARGETCRS[VERTCRS["NAVD88_height_(ft |
| | | atum_1929"],PARAMETER["Vertical_Shift",0. | US)",VDATUM["North_American_Vertical_Datum_ |
| | | 0],PARAMETER["Direction",1.0],UNIT["Foot_ | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD8 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 8_height_(ftUS)",VDATUM["North_American | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_NAD_ |
| | | _Vertical_Datum_1988"],PARAMETER["Vertic | 1983_NSRS2007",DATUM["D_NAD_1983_NSRS20 |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | 07",ELLIPSOID["GRS_1980",6378137.0,298.257222 |
| | | NIT["Foot_US",0.3048006096012192]],VTME | 101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Green |
| | | THOD["VERTCON"],PARAMETER["Dataset_ve | wich",0.0,ANGLEUNIT["Degree",0.0174532925199 |
| | | rtconecw.94",0.0],OPERATIONACCURACY[0.0 | 433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | [2]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|----------------------------------------------------|
| 110052 | NGVD29_To_NAVD88_Depth_USFT_N | VERTTRAN["NGVD29_To_NAVD88_Depth_US | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | SRS2007_ECW | FT_NSRS2007_ECW",GEOGCS["GCS_NAD_19 | Depth_USFT_NSRS2007_ECW",SOURCECRS[VERTC |
| | | 83_NSRS2007",DATUM["D_NAD_1983_NSRS | RS["NGVD_1929",VDATUM["National_Geodetic_V |
| | | 2007",SPHEROID["GRS_1980",6378137.0,298 | ertical_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | .257222101]],PRIMEM["Greenwich",0.0],UNI | related height |
| | | T["Degree",0.0174532925199433]],VERTCS[" | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | NGVD_1929",VDATUM["National_Geodetic_ | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ft |
| | | Vertical_Datum_1929"],PARAMETER["Vertica | US)",VDATUM["North_American_Vertical_Datum_ |
| | | I_Shift",0.0],PARAMETER["Direction",1.0],UNI | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | T["Foot_US",0.3048006096012192]],VERTCS[| (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | "NAVD88_depth_(ftUS)",VDATUM["North_A | 012192]]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | merican_Vertical_Datum_1988"],PARAMETE | AD_1983_NSRS2007",DATUM["D_NAD_1983_NSR |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | S2007",ELLIPSOID["GRS_1980",6378137.0,298.257 |
| | | n",- | 222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gre |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | enwich",0.0,ANGLEUNIT["Degree",0.01745329251 |
| | | VTMETHOD["VERTCON"],PARAMETER["Datas | 99433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | et_vertconecw.94",0.0],OPERATIONACCURAC | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Y[0.02]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|---------------------------------------------------|
| 110053 | NGVD29_To_NAVD88_NAD83_2011_E | VERTTRAN["NGVD29_To_NAVD88_NAD83_2 | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | CW | 011_ECW",GEOGCS["GCS_NAD_1983_2011", | NAD83_2011_ECW",SOURCECRS[VERTCRS["NGVD |
| | | DATUM["D_NAD_1983_2011",SPHEROID["GR | _1929",VDATUM["National_Geodetic_Vertical_Da |
| | | S_1980",6378137.0,298.257222101]],PRIME | tum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | height |
| | | 2925199433]],VERTCS["NGVD_1929",VDATU | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | M["National_Geodetic_Vertical_Datum_1929 | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | UM["North_American_Vertical_Datum_1988"],CS[|
| | | TER["Direction",1.0],UNIT["Foot_US",0.30480 | vertical,1],AXIS["Gravity-related height |
| | | 06096012192]],VERTCS["NAVD_1988",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["North_American_Vertical_Datum_1988 | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | "],PARAMETER["Vertical_Shift",0.0],PARAME | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | ETHOD["VERTCON"],PARAMETER["Dataset_v | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | ertconecw.94",0.0],OPERATIONACCURACY[0. | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | 02]] | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|--------------------------------------------|----------------------------------------------------|
| 110054 | NGVD29_To_NAVD88_Depth_NAD83_ | VERTTRAN["NGVD29_To_NAVD88_Depth_N | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | 2011_ECW | AD83_2011_ECW",GEOGCS["GCS_NAD_1983 | Depth_NAD83_2011_ECW",SOURCECRS[VERTCRS[|
| | | _2011",DATUM["D_NAD_1983_2011",SPHER | "NGVD_1929",VDATUM["National_Geodetic_Verti |
| | | OID["GRS_1980",6378137.0,298.257222101]] | cal_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. | related height |
| | | 0174532925199433]],VERTCS["NGVD_1929", | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | VDATUM["National_Geodetic_Vertical_Datu | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth",VD |
| | | m_1929"],PARAMETER["Vertical_Shift",0.0],P | ATUM["North_American_Vertical_Datum_1988"], |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | CS[vertical,1],AXIS["Gravity-related height |
| | | 0.3048006096012192]],VERTCS["NAVD88_de | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | pth",VDATUM["North_American_Vertical_Da | ATIONCRS[GEOGCRS["GCS_NAD_1983_2011",DYN |
| | | tum_1988"],PARAMETER["Vertical_Shift",0.0] | AMIC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DA |
| | | ,PARAMETER["Direction",- | TUM["D_NAD_1983_2011",ELLIPSOID["GRS_1980 |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["VERTCO | ",6378137.0,298.257222101,LENGTHUNIT["Meter |
| | | N"],PARAMETER["Dataset_vertconecw.94",0. | ",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["De |
| | | 0],OPERATIONACCURACY[0.02]] | gree",0.0174532925199433]],CS[ellipsoidal,2],AXI |
| | | | S["Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|--------------------------------------------|----------------------------------------------------|
| 110055 | NGVD29_To_NAVD88_USFT_NAD83_ | VERTTRAN["NGVD29_To_NAVD88_USFT_NA | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | 2011_ECW | D83_2011_ECW",GEOGCS["GCS_NAD_1983_ | USFT_NAD83_2011_ECW",SOURCECRS[VERTCRS[" |
| | | 2011",DATUM["D_NAD_1983_2011",SPHERO | NGVD_1929",VDATUM["National_Geodetic_Vertic |
| | | ID["GRS_1980",6378137.0,298.257222101]],P | al_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | related height |
| | | 74532925199433]],VERTCS["NGVD_1929",VD | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ATUM["National_Geodetic_Vertical_Datum_ | 192]]],TARGETCRS[VERTCRS["NAVD88_height_(ft |
| | | 1929"],PARAMETER["Vertical_Shift",0.0],PAR | US)",VDATUM["North_American_Vertical_Datum_ |
| | | AMETER["Direction",1.0],UNIT["Foot_US",0.3 | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | 048006096012192]],VERTCS["NAVD88_heigh | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | t_(ftUS)",VDATUM["North_American_Vertical | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_NAD_ |
| | | _Datum_1988"],PARAMETER["Vertical_Shift", | 1983_2011",DYNAMIC[FRAMEEPOCH[2010.0],MO |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Foot | DEL["HTDP"]],DATUM["D_NAD_1983_2011",ELLIP |
| | | _US",0.3048006096012192]],VTMETHOD["VE | SOID["GRS_1980",6378137.0,298.257222101,LEN |
| | | RTCON"],PARAMETER["Dataset_vertconecw. | GTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0 |
| | | 94",0.0],OPERATIONACCURACY[0.02]] | ,ANGLEUNIT["Degree",0.0174532925199433]],CS[|
| | | | ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-------------------------------------------|----------------------------------------------------|
| 110056 | NGVD29_To_NAVD88_Depth_USFT_N | VERTTRAN["NGVD29_To_NAVD88_Depth_US | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | AD83_2011_ECW | FT_NAD83_2011_ECW",GEOGCS["GCS_NAD_ | Depth_USFT_NAD83_2011_ECW",SOURCECRS[VE |
| | | 1983_2011",DATUM["D_NAD_1983_2011",S | RTCRS["NGVD_1929",VDATUM["National_Geodeti |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | c_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gra |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | vity-related height |
| | | e",0.0174532925199433]],VERTCS["NGVD_19 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 29",VDATUM["National_Geodetic_Vertical_D | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth_(ft |
| | | atum_1929"],PARAMETER["Vertical_Shift",0. | US)",VDATUM["North_American_Vertical_Datum_ |
| | | 0],PARAMETER["Direction",1.0],UNIT["Foot_ | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD8 | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | 8_depth_(ftUS)",VDATUM["North_American_ | 012192]]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | Vertical_Datum_1988"],PARAMETER["Vertica | AD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0], |
| | | I_Shift",0.0],PARAMETER["Direction",- | MODEL["HTDP"]],DATUM["D_NAD_1983_2011",E |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | LLIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | VTMETHOD["VERTCON"],PARAMETER["Datas | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | et_vertconecw.94",0.0],OPERATIONACCURAC | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | Y[0.02]] | CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-------------------------------------------|--------------------------------------------------|
| 110057 | NGVD29_To_NAVD88_Depth_NAD27_ | VERTTRAN["NGVD29_To_NAVD88_Depth_N | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | ECW | AD27_ECW",GEOGCS["GCS_North_American | Depth_NAD27_ECW",SOURCECRS[VERTCRS["NGV |
| | | _1927",DATUM["D_North_American_1927",S | D_1929",VDATUM["National_Geodetic_Vertical_D |
| | | PHEROID["Clarke_1866",6378206.4,294.9786 | atum_1929"],CS[vertical,1],AXIS["Gravity-related |
| | | 982]],PRIMEM["Greenwich",0.0],UNIT["Degre | height |
| | | e",0.0174532925199433]],VERTCS["NGVD_19 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 29",VDATUM["National_Geodetic_Vertical_D | 192]]]],TARGETCRS[VERTCRS["NAVD88_depth",VD |
| | | atum_1929"],PARAMETER["Vertical_Shift",0. | ATUM["North_American_Vertical_Datum_1988"], |
| | | 0],PARAMETER["Direction",1.0],UNIT["Foot_ | CS[vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD8 | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | 8_depth",VDATUM["North_American_Vertic | ATIONCRS[GEOGCRS["GCS_North_American_1927 |
| | | al_Datum_1988"],PARAMETER["Vertical_Shif | ",DATUM["D_North_American_1927",ELLIPSOID[" |
| | | t",0.0],PARAMETER["Direction",- | Clarke_1866",6378206.4,294.9786982,LENGTHUN |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["VERTCO | IT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLE |
| | | N"],PARAMETER["Dataset_vertconecw.94",0. | UNIT["Degree",0.0174532925199433]],CS[ellipsoi |
| | | 0],OPERATIONACCURACY[0.02]] | dal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|-----------------------------------------------------|
| 110058 | Baltic_height_To_LAS07_height | VERTTRAN["Baltic_height_To_LAS07_height", | COORDINATEOPERATION["Baltic_height_To_LAS0 |
| | | GEOGCS["GCS_LKS_1994",DATUM["D_Lithua | 7_height",SOURCECRS[VERTCRS["Baltic",VDATUM |
| | | nia_1994",SPHEROID["GRS_1980",6378137.0, | ["Baltic_Sea"],CS[vertical,1],AXIS["Gravity-related |
| | | 298.257222101]],PRIMEM["Greenwich",0.0], | height |
| | | UNIT["Degree",0.0174532925199433]],VERT | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | CS["Baltic",VDATUM["Baltic_Sea"],PARAMET | VERTCRS["LAS07_height",VDATUM["Lithuanian_H |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | eight_System_2007"],CS[vertical,1],AXIS["Gravity- |
| | | on",1.0],UNIT["Meter",1.0]],VERTCS["LAS07_ | related height |
| | | height",VDATUM["Lithuanian_Height_System | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | _2007"],PARAMETER["Vertical_Shift",0.0],PA | ONCRS[GEOGCRS["GCS_LKS_1994",DATUM["D_Lit |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | huania_1994",ELLIPSOID["GRS_1980",6378137.0,2 |
| | |],VTMETHOD["Vertical_Offset_and_Slope"],P | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | ARAMETER["Vertical_Offset",0.1425],PARAM | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | ETER["Longitude_Of_Evaluation",24.0166666 | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 6666667],PARAMETER["Latitude_Of_Evaluati | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | on",55.3],PARAMETER["Inclination_North",0. | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 06076],PARAMETER["Inclination_East",0.033 | 4532925199433]]],METHOD["Vertical_Offset_and |
| | | 75]] | _Slope"],PARAMETER["Vertical_Offset",0.1425,LE |
| | | | NGTHUNIT["Meter",1.0]],PARAMETER["Longitude |
| | | | _Of_Evaluation",24.01666666666667,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],PARAMETER["La |
| | | | titude_Of_Evaluation",55.3,ANGLEUNIT["Degree", |
| | | | 0.0174532925199433]],PARAMETER["Inclination_ |
| | | | North",0.06076,ANGLEUNIT["Arcsecond",0.00000 |
| | | | 484813681109536]],PARAMETER["Inclination_Eas |
| | | | t",0.03375,ANGLEUNIT["Arcsecond",0.000004848 |
| | | | 13681109536]]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|---------------------------------------------|------------------------------------------------------|
| 110059 | JGD_2000_To_JGD_2000_Vertical_Hei | VERTTRAN["JGD_2000_To_JGD_2000_Vertica | COORDINATEOPERATION["JGD_2000_To_JGD_20 |
| | ght_1 | I_Height_1",GEOGCS["GCS_JGD_2000",DATU | 00_Vertical_Height_1",SOURCECRS[VERTCRS["JGD |
| | | M["D_JGD_2000",SPHEROID["GRS_1980",637 | _2000",DATUM["D_JGD_2000",ELLIPSOID["GRS_1 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["JGD_2000",DATUM["D_JGD_2000" | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | ERTCRS["JGD2000_vertical_height",VDATUM["Jap |
| | | 22101]],PARAMETER["Vertical_Shift",0.0],PA | anese_Geodetic_Datum_2000_vertical"],CS[vertic |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | al,1],AXIS["Gravity-related height |
| | |],VERTCS["JGD2000_vertical_height",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | M["Japanese_Geodetic_Datum_2000_vertica | ONCRS[GEOGCRS["GCS_JGD_2000",DATUM["D_JG |
| | | I"],PARAMETER["Vertical_Shift",0.0],PARAME | D_2000",ELLIPSOID["GRS_1980",6378137.0,298.2 |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | 57222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ETHOD["GEOID"],PARAMETER["Dataset_JGE | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | OID2008",0.0],OPERATIONACCURACY[10.0]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["JGEOID2008"],OPERATIONACCURACY[10.0] |
| | | | |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|---------------------------------------------|------------------------------------------------------|
| 110060 | JGD_2011_To_JGD_2011_Vertical_Hei | VERTTRAN["JGD_2011_To_JGD_2011_Vertica | COORDINATEOPERATION["JGD_2011_To_JGD_20 |
| | ght_1 | I_Height_1",GEOGCS["GCS_JGD_2011",DATU | 11_Vertical_Height_1",SOURCECRS[VERTCRS["JGD |
| | | M["D_JGD_2011",SPHEROID["GRS_1980",637 | _2011",DATUM["D_JGD_2011",ELLIPSOID["GRS_1 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["JGD_2011",DATUM["D_JGD_2011" | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | ERTCRS["JGD2011_vertical_height",VDATUM["Jap |
| | | 22101]],PARAMETER["Vertical_Shift",0.0],PA | anese_Geodetic_Datum_2011_vertical"],CS[vertic |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | al,1],AXIS["Gravity-related height |
| | |],VERTCS["JGD2011_vertical_height",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | M["Japanese_Geodetic_Datum_2011_vertica | ONCRS[GEOGCRS["GCS_JGD_2011",DATUM["D_JG |
| | | I"],PARAMETER["Vertical_Shift",0.0],PARAME | D_2011",ELLIPSOID["GRS_1980",6378137.0,298.2 |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | 57222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | ETHOD["GEOID"],PARAMETER["Dataset_GSIG | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | EOID2011",0.0],OPERATIONACCURACY[2.0]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GSIGEOID2011"],OPERATIONACCURACY[2. |
| | | | 0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------|----------------------------------------------|-------------------------------------------------------|
| 110061 | RGF_1993_Height_To_NGF- | VERTTRAN["RGF_1993_Height_To_NGF- | COORDINATEOPERATION["RGF_1993_Height_To_ |
| | IGN69_Height_RAF18_3 | IGN69_Height_RAF18_3",GEOGCS["GCS_RGF | NGF- |
| | | _1993",DATUM["D_RGF_1993",SPHEROID["G | IGN69_Height_RAF18_3",SOURCECRS[VERTCRS["R |
| | | RS_1980",6378137.0,298.257222101]],PRIME | GF_1993",DATUM["D_RGF_1993",ELLIPSOID["GRS |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | 2925199433]],VERTCS["RGF_1993",DATUM[" | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | D_RGF_1993",SPHEROID["GRS_1980",637813 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 7.0,298.257222101]],PARAMETER["Vertical_S | ERTCRS["NGF_IGN69",VDATUM["Nivellement_Ge |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | neral_de_la_France_IGN69"],CS[vertical,1],AXIS[" |
| | | Meter",1.0]],VERTCS["NGF_IGN69",VDATUM[| Gravity-related height |
| | | "Nivellement_General_de_la_France_IGN69" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | |],PARAMETER["Vertical_Shift",0.0],PARAMET | ONCRS[GEOGCRS["GCS_RGF_1993",DATUM["D_R |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VTME | GF_1993",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | THOD["GEOID"],PARAMETER["Dataset_RAF1 | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 8",0.0],OPERATIONACCURACY[0.01]] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["RAF18"],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|--------------------------------------------------|
| 110062 | NZGD2000_To_NZGD2016_Height_1 | VERTTRAN["NZGD2000_To_NZGD2016_Heig | COORDINATEOPERATION["NZGD2000_To_NZGD2 |
| | | ht_1",GEOGCS["GCS_NZGD_2000",DATUM[" | 016_Height_1",SOURCECRS[VERTCRS["NZGD_200 |
| | | D_NZGD_2000",SPHEROID["GRS_1980",6378 | 0",DATUM["D_NZGD_2000",ELLIPSOID["GRS_1980 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | ",6378137.0,298.257222101,LENGTHUNIT["Meter |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | ",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["NZGD_2000",DATUM["D_NZGD_20 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 00",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["NZVD2016_height",VDATUM["New_Zeal |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | and_Vertical_Datum_2016"],CS[vertical,1],AXIS["G |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | ravity-related height |
| | | .0]],VERTCS["NZVD2016_height",VDATUM["N | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ew_Zealand_Vertical_Datum_2016"],PARAM | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["G | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | EOID"],PARAMETER["Dataset_New_Zealand_ | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | Quasigeoid_2016",0.0],OPERATIONACCURAC | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Y[0.1]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["New_Zealand_Quasigeoid_2016"],OPERATI |
| | | | ONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|---------------------------------------------|---------------------------------------------------|
| 110063 | Auckland_1946_Height_To_NZGD200 | VERTTRAN["Auckland_1946_Height_To_NZG | COORDINATEOPERATION["Auckland_1946_Height |
| | 0_Height_1 | D2000_Height_1",GEOGCS["GCS_NZGD_2000 | _To_NZGD2000_Height_1",SOURCECRS[VERTCRS[|
| | | ",DATUM["D_NZGD_2000",SPHEROID["GRS_ | "Auckland",VDATUM["Auckland"],CS[vertical,1],AX |
| | | 1980",6378137.0,298.257222101]],PRIMEM[" | IS["Gravity-related height |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 5199433]],VERTCS["Auckland",VDATUM["Auc | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | kland"],PARAMETER["Vertical_Shift",0.0],PAR | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | VERTCS["NZGD_2000",DATUM["D_NZGD_20 | llipsoidal height |
| | | 00",SPHEROID["GRS_1980",6378137.0,298.2 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | .0]],VTMETHOD["GEOID"],PARAMETER["Data | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | set_auckland_1946_to_nzgd2000",0.0],OPER | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | ATIONACCURACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["auckland_1946_to_nzgd2000"],OPERATION |
| | | | ACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|---------------------------------------------------|
| 110064 | Bluff_1955_Height_To_NZGD2000_He | VERTTRAN["Bluff_1955_Height_To_NZGD200 | COORDINATEOPERATION["Bluff_1955_Height_To_ |
| | ight_1 | 0_Height_1",GEOGCS["GCS_NZGD_2000",DA | NZGD2000_Height_1",SOURCECRS[VERTCRS["Bluff |
| | | TUM["D_NZGD_2000",SPHEROID["GRS_1980 | ",VDATUM["Bluff"],CS[vertical,1],AXIS["Gravity- |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | related height |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 433]],VERTCS["Bluff",VDATUM["Bluff"],PARA | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["NZG | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | D_2000",DATUM["D_NZGD_2000",SPHEROID | llipsoidal height |
| | | ["GRS_1980",6378137.0,298.257222101]],PA | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | Direction",1.0],UNIT["Meter",1.0]],VTMETHO | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | D["GEOID"],PARAMETER["Dataset_bluff_195 | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | 5_to_nzgd2000",0.0],OPERATIONACCURACY[| M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | 0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["bluff_1955_to_nzgd2000"],OPERATIONACC |
| | | | URACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|---------------------------------------------------|
| 110065 | Dunedin_1958_Height_To_NZGD2000 | VERTTRAN["Dunedin_1958_Height_To_NZGD | COORDINATEOPERATION["Dunedin_1958_Height_ |
| | _Height_1 | 2000_Height_1",GEOGCS["GCS_NZGD_2000", | To_NZGD2000_Height_1",SOURCECRS[VERTCRS[" |
| | | DATUM["D_NZGD_2000",SPHEROID["GRS_19 | Dunedin",VDATUM["Dunedin"],CS[vertical,1],AXIS[|
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | "Gravity-related height |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 99433]],VERTCS["Dunedin",VDATUM["Dunedi | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | n"],PARAMETER["Vertical_Shift",0.0],PARAM | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | TCS["NZGD_2000",DATUM["D_NZGD_2000", | llipsoidal height |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | dunedin_1958_to_nzgd2000",0.0],OPERATIO | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | NACCURACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["dunedin_1958_to_nzgd2000"],OPERATION |
| | | | ACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|-----------------------------------------------|---------------------------------------------------|
| 110066 | Dunedin- | VERTTRAN["Dunedin- | COORDINATEOPERATION["Dunedin- |
| | Bluff_1960_Height_To_NZGD2000_He | Bluff_1960_Height_To_NZGD2000_Height_1" | Bluff_1960_Height_To_NZGD2000_Height_1",SOU |
| | ight_1 | ,GEOGCS["GCS_NZGD_2000",DATUM["D_NZ | RCECRS[VERTCRS["Dunedin_Bluff_1960_height",V |
| | | GD_2000",SPHEROID["GRS_1980",6378137.0 | DATUM["Dunedin_Bluff_1960"],CS[vertical,1],AXIS |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | ["Gravity-related height |
| | | UNIT["Degree",0.0174532925199433]],VERT | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | CS["Dunedin_Bluff_1960_height",VDATUM[" | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | Dunedin_Bluff_1960"],PARAMETER["Vertical | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | T["Meter",1.0]],VERTCS["NZGD_2000",DATU | llipsoidal height |
| | | M["D_NZGD_2000",SPHEROID["GRS_1980",6 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 378137.0,298.257222101]],PARAMETER["Ver | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | RAMETER["Dataset_Dunedin- | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | Bluff_1960_to_nzgd2000",0.0],OPERATIONA | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | CCURACY[0.12]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["Dunedin- |
| | | | Bluff_1960_to_nzgd2000"],OPERATIONACCURACY |
| | | | [0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|--------------------------------------------|---------------------------------------------------|
| 110067 | Gisborne_1926_Height_To_NZGD2000 | VERTTRAN["Gisborne_1926_Height_To_NZG | COORDINATEOPERATION["Gisborne_1926_Height |
| | _Height_1 | D2000_Height_1",GEOGCS["GCS_NZGD_2000 | _To_NZGD2000_Height_1",SOURCECRS[VERTCRS[|
| | | ",DATUM["D_NZGD_2000",SPHEROID["GRS_ | "Gisborne",VDATUM["Gisborne"],CS[vertical,1],AX |
| | | 1980",6378137.0,298.257222101]],PRIMEM[" | IS["Gravity-related height |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 5199433]],VERTCS["Gisborne",VDATUM["Gis | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | borne"],PARAMETER["Vertical_Shift",0.0],PA | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | |],VERTCS["NZGD_2000",DATUM["D_NZGD_2 | llipsoidal height |
| | | 000",SPHEROID["GRS_1980",6378137.0,298. | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 257222101]],PARAMETER["Vertical_Shift",0.0 | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | 1.0]],VTMETHOD["GEOID"],PARAMETER["Dat | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | aset_gisborne_1926_to_nzgd2000",0.0],OPE | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | RATIONACCURACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["gisborne_1926_to_nzgd2000"],OPERATION |
| | | | ACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|---------------------------------------------|---------------------------------------------------|
| 110068 | Lyttelton_1937_Height_To_NZGD2000 | VERTTRAN["Lyttelton_1937_Height_To_NZG | COORDINATEOPERATION["Lyttelton_1937_Height |
| | _Height_1 | D2000_Height_1",GEOGCS["GCS_NZGD_2000 | _To_NZGD2000_Height_1",SOURCECRS[VERTCRS[|
| | | ",DATUM["D_NZGD_2000",SPHEROID["GRS_ | "Lyttelton",VDATUM["Lyttelton"],CS[vertical,1],AX |
| | | 1980",6378137.0,298.257222101]],PRIMEM[" | IS["Gravity-related height |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 5199433]],VERTCS["Lyttelton",VDATUM["Lytt | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | elton"],PARAMETER["Vertical_Shift",0.0],PAR | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | VERTCS["NZGD_2000",DATUM["D_NZGD_20 | llipsoidal height |
| | | 00",SPHEROID["GRS_1980",6378137.0,298.2 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | .0]],VTMETHOD["GEOID"],PARAMETER["Data | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | set_lyttelton_1937_to_nzgd2000",0.0],OPER | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | ATIONACCURACY[0.11]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["lyttelton_1937_to_nzgd2000"],OPERATION |
| | | | ACCURACY[0.11]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 110069 | Moturiki_1953_Height_To_NZGD2000 | VERTTRAN["Moturiki_1953_Height_To_NZGD | COORDINATEOPERATION["Moturiki_1953_Height |
| | _Height_1 | 2000_Height_1",GEOGCS["GCS_NZGD_2000", | _To_NZGD2000_Height_1",SOURCECRS[VERTCRS[|
| | | DATUM["D_NZGD_2000",SPHEROID["GRS_19 | "Moturiki",VDATUM["Moturiki"],CS[vertical,1],AXI |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | S["Gravity-related height |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 99433]],VERTCS["Moturiki",VDATUM["Moturi | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | ki"],PARAMETER["Vertical_Shift",0.0],PARAM | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | TCS["NZGD_2000",DATUM["D_NZGD_2000", | llipsoidal height |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | moturiki_1953_to_nzgd2000",0.0],OPERATIO | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | NACCURACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["moturiki_1953_to_nzgd2000"],OPERATION |
| | | | ACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|---------------------------------------------------|
| 110070 | Napier_1962_Height_To_NZGD2000_ | VERTTRAN["Napier_1962_Height_To_NZGD2 | COORDINATEOPERATION["Napier_1962_Height_T |
| | Height_1 | 000_Height_1",GEOGCS["GCS_NZGD_2000", | o_NZGD2000_Height_1",SOURCECRS[VERTCRS["N |
| | | DATUM["D_NZGD_2000",SPHEROID["GRS_19 | apier",VDATUM["Napier"],CS[vertical,1],AXIS["Gra |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | vity-related height |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 99433]],VERTCS["Napier",VDATUM["Napier"] | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | ["NZGD_2000",DATUM["D_NZGD_2000",SPH | llipsoidal height |
| | | EROID["GRS_1980",6378137.0,298.25722210 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1]],PARAMETER["Vertical_Shift",0.0],PARAME | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | ETHOD["GEOID"],PARAMETER["Dataset_napi | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | er_1962_to_nzgd2000",0.0],OPERATIONACC | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | URACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["napier_1962_to_nzgd2000"],OPERATIONA |
| | | | CCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|---------------------------------------------------|
| 110071 | Nelson_1955_Height_To_NZGD2000_ | VERTTRAN["Nelson_1955_Height_To_NZGD2 | COORDINATEOPERATION["Nelson_1955_Height_T |
| | Height_1 | 000_Height_1",GEOGCS["GCS_NZGD_2000", | o_NZGD2000_Height_1",SOURCECRS[VERTCRS["N |
| | | DATUM["D_NZGD_2000",SPHEROID["GRS_19 | elson",VDATUM["Nelson"],CS[vertical,1],AXIS["Gra |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | vity-related height |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 99433]],VERTCS["Nelson",VDATUM["Nelson"] | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | ["NZGD_2000",DATUM["D_NZGD_2000",SPH | Ilipsoidal height |
| | | EROID["GRS_1980",6378137.0,298.25722210 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1]],PARAMETER["Vertical_Shift",0.0],PARAME | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VTM | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | ETHOD["GEOID"],PARAMETER["Dataset_nels | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | on_1955_to_nzgd2000",0.0],OPERATIONACC | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | URACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["nelson_1955_to_nzgd2000"],OPERATIONA |
| | | | CCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 110072 | One_Tree_Point_1964_Height_To_NZ | VERTTRAN["One_Tree_Point_1964_Height_T | COORDINATEOPERATION["One_Tree_Point_1964 |
| | GD2000_Height_1 | o_NZGD2000_Height_1",GEOGCS["GCS_NZG | _Height_To_NZGD2000_Height_1",SOURCECRS[VE |
| | | D_2000",DATUM["D_NZGD_2000",SPHEROID | RTCRS["One_Tree_Point",VDATUM["One_Tree_Po |
| | | ["GRS_1980",6378137.0,298.257222101]],PRI | int"],CS[vertical,1],AXIS["Gravity-related height |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 4532925199433]],VERTCS["One_Tree_Point", | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | VDATUM["One_Tree_Point"],PARAMETER["V | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | 0],UNIT["Meter",1.0]],VERTCS["NZGD_2000", | llipsoidal height |
| | | DATUM["D_NZGD_2000",SPHEROID["GRS_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 80",6378137.0,298.257222101]],PARAMETER | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | ,1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | "],PARAMETER["Dataset_one_tree_point_19 | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | 64_to_nzgd2000",0.0],OPERATIONACCURACY | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | [0.11]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["one_tree_point_1964_to_nzgd2000"],OPE |
| | | | RATIONACCURACY[0.11]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|----------------------------------------------|---------------------------------------------------|
| 110073 | Stewart_Island_1977_Height_To_NZG | VERTTRAN["Stewart_Island_1977_Height_To | COORDINATEOPERATION["Stewart_Island_1977_ |
| | D2000_Height_1 | _NZGD2000_Height_1",GEOGCS["GCS_NZGD | Height_To_NZGD2000_Height_1",SOURCECRS[VE |
| | | _2000",DATUM["D_NZGD_2000",SPHEROID[" | RTCRS["Stewart_Island",VDATUM["Stewart_Island |
| | | GRS_1980",6378137.0,298.257222101]],PRI | "],CS[vertical,1],AXIS["Gravity-related height |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 4532925199433]],VERTCS["Stewart_Island",V | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | DATUM["Stewart_Island"],PARAMETER["Vert | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | UNIT["Meter",1.0]],VERTCS["NZGD_2000",DA | llipsoidal height |
| | | TUM["D_NZGD_2000",SPHEROID["GRS_1980 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ",6378137.0,298.257222101]],PARAMETER[" | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | PARAMETER["Dataset_stewart_island_1977_ | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | to_nzgd2000",0.0],OPERATIONACCURACY[0.2 | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 8]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["stewart_island_1977_to_nzgd2000"],OPER |
| | | | ATIONACCURACY[0.28]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|----------------------------------------------|---------------------------------------------------|
| 110074 | Taranaki_1970_Height_To_NZGD2000 | VERTTRAN["Taranaki_1970_Height_To_NZGD | COORDINATEOPERATION["Taranaki_1970_Height |
| | _Height_1 | 2000_Height_1",GEOGCS["GCS_NZGD_2000", | _To_NZGD2000_Height_1",SOURCECRS[VERTCRS[|
| | | DATUM["D_NZGD_2000",SPHEROID["GRS_19 | "Taranaki",VDATUM["Taranaki"],CS[vertical,1],AXI |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | S["Gravity-related height |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 99433]],VERTCS["Taranaki",VDATUM["Tarana | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | ki"],PARAMETER["Vertical_Shift",0.0],PARAM | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | TCS["NZGD_2000",DATUM["D_NZGD_2000", | llipsoidal height |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | taranaki_1970_to_nzgd2000",0.0],OPERATIO | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | NACCURACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["taranaki_1970_to_nzgd2000"],OPERATION |
| | | | ACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|---------------------------------------------------|
| 110075 | Wellington_1953_Height_To_NZGD20 | VERTTRAN["Wellington_1953_Height_To_NZ | COORDINATEOPERATION["Wellington_1953_Heig |
| | 00_Height_1 | GD2000_Height_1",GEOGCS["GCS_NZGD_20 | ht_To_NZGD2000_Height_1",SOURCECRS[VERTCR |
| | | 00",DATUM["D_NZGD_2000",SPHEROID["GR | S["Wellington",VDATUM["Wellington"],CS[vertical |
| | | S_1980",6378137.0,298.257222101]],PRIME | ,1],AXIS["Gravity-related height |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 2925199433]],VERTCS["Wellington",VDATUM | VERTCRS["NZGD_2000",DATUM["D_NZGD_2000", |
| | | ["Wellington"],PARAMETER["Vertical_Shift",0 | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | ",1.0]],VERTCS["NZGD_2000",DATUM["D_NZ | llipsoidal height |
| | | GD_2000",SPHEROID["GRS_1980",6378137.0 | (h)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ,298.257222101]],PARAMETER["Vertical_Shif | ONCRS[GEOGCRS["GCS_NZGD_2000",DATUM["D_ |
| | | t",0.0],PARAMETER["Direction",1.0],UNIT["M | NZGD_2000",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | eter",1.0]],VTMETHOD["GEOID"],PARAMETER | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | ["Dataset_wellington_1953_to_nzgd2000",0. | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | 0],OPERATIONACCURACY[0.12]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["wellington_1953_to_nzgd2000"],OPERATIO |
| | | | NACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------|---------------------------------------------|----------------------------------------------------|
| 110076 | CHTRF95_To_LHN95_Height | VERTTRAN["CHTRF95_To_LHN95_Height",GE | COORDINATEOPERATION["CHTRF95_To_LHN95_H |
| | | OGCS["GCS_Swiss_TRF_1995",DATUM["D_Sw | eight",SOURCECRS[VERTCRS["Swiss_TRF_1995",D |
| | | iss_TRF_1995",SPHEROID["GRS_1980",63781 | ATUM["D_Swiss_TRF_1995",ELLIPSOID["GRS_198 |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | ERTCS["Swiss_TRF_1995",DATUM["D_Swiss_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | TRF_1995",SPHEROID["GRS_1980",6378137.0 | ERTCRS["LHN95",VDATUM["Landeshohennetz_19 |
| | | ,298.257222101]],PARAMETER["Vertical_Shif | 95"],CS[vertical,1],AXIS["Gravity-related height |
| | | t",0.0],PARAMETER["Direction",1.0],UNIT["M | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | eter",1.0]],VERTCS["LHN95",VDATUM["Lande | ONCRS[GEOGCRS["GCS_Swiss_TRF_1995",DATUM |
| | | shohennetz_1995"],PARAMETER["Vertical_Sh | ["D_Swiss_TRF_1995",ELLIPSOID["GRS_1980",637 |
| | | ift",0.0],PARAMETER["Direction",1.0],UNIT[" | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET |]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree" |
| | | ER["Interpolation_Type",30.0],PARAMETER[" | ,0.0174532925199433]],CS[ellipsoidal,2],AXIS["Lati |
| | | Dataset_chgeo2004_ETRS",0.0],OPERATIONA | tude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | CCURACY[0.03]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_ETRS"],OPERATI |
| | | | ONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 110077 | NGVD29_ht_(m)_To_NAVD88_ht_NA | VERTTRAN["NGVD29_ht_(m)_To_NAVD88_ht | COORDINATEOPERATION["NGVD29_ht_(m)_To_N |
| | D83_ECW | _NAD83_ECW",GEOGCS["GCS_North_Americ | AVD88_ht_NAD83_ECW",SOURCECRS[VERTCRS[" |
| | | an_1983",DATUM["D_North_American_1983 | NGVD_1929_height_(m)",VDATUM["National_Geo |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | detic_Vertical_Datum_1929"],CS[vertical,1],AXIS[" |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | Gravity-related height |
| | | egree",0.0174532925199433]],VERTCS["NGV | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | D_1929_height_(m)",VDATUM["National_Ge | VERTCRS["NAVD_1988",VDATUM["North_America |
| | | odetic_Vertical_Datum_1929"],PARAMETER[| n_Vertical_Datum_1988"],CS[vertical,1],AXIS["Gra |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | vity-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["NAVD_1988 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ",VDATUM["North_American_Vertical_Datu | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | 0]],VTMETHOD["VERTCON"],PARAMETER["Da | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | taset_vertconecw.94",0.0],OPERATIONACCU | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | RACY[0.02]] | l,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|---------------------------------------------------|
| 110078 | NGVD29_ht_(m)_To_NAVD88_ht_201 | VERTTRAN["NGVD29_ht_(m)_To_NAVD88_ht | COORDINATEOPERATION["NGVD29_ht_(m)_To_N |
| | 1_ECW | _2011_ECW",GEOGCS["GCS_NAD_1983_201 | AVD88_ht_2011_ECW",SOURCECRS[VERTCRS["NG |
| | | 1",DATUM["D_NAD_1983_2011",SPHEROID[" | VD_1929_height_(m)",VDATUM["National_Geode |
| | | GRS_1980",6378137.0,298.257222101]],PRI | tic_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gr |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | avity-related height |
| | | 4532925199433]],VERTCS["NGVD_1929_heig | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | ht_(m)",VDATUM["National_Geodetic_Vertic | VERTCRS["NAVD_1988",VDATUM["North_America |
| | | al_Datum_1929"],PARAMETER["Vertical_Shif | n_Vertical_Datum_1988"],CS[vertical,1],AXIS["Gra |
| | | t",0.0],PARAMETER["Direction",1.0],UNIT["M | vity-related height |
| | | eter",1.0]],VERTCS["NAVD_1988",VDATUM[" | (H)",up,LENGTHUNIT["Meter",1.0]]],INTERPOLATI |
| | | North_American_Vertical_Datum_1988"],PA | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | Direction",1.0],UNIT["Meter",1.0]],VTMETHO | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | D["VERTCON"],PARAMETER["Dataset_vertco | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | necw.94",0.0],OPERATIONACCURACY[0.02]] | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 110079 | NGVD29_ht_(m)_To_NAVD88_ht_USF | VERTTRAN["NGVD29_ht_(m)_To_NAVD88_ht | COORDINATEOPERATION["NGVD29_ht_(m)_To_N |
| | T_2011_ECW | _USFT_2011_ECW",GEOGCS["GCS_NAD_198 | AVD88_ht_USFT_2011_ECW",SOURCECRS[VERTCR |
| | | 3_2011",DATUM["D_NAD_1983_2011",SPHE | S["NGVD_1929_height_(m)",VDATUM["National_ |
| | | ROID["GRS_1980",6378137.0,298.257222101 | Geodetic_Vertical_Datum_1929"],CS[vertical,1],A |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | XIS["Gravity-related height |
| | | 0.0174532925199433]],VERTCS["NGVD_1929 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | _height_(m)",VDATUM["National_Geodetic_ | VERTCRS["NAVD88_height_(ftUS)",VDATUM["Nort |
| | | Vertical_Datum_1929"],PARAMETER["Vertica | h_American_Vertical_Datum_1988"],CS[vertical,1] |
| | | I_Shift",0.0],PARAMETER["Direction",1.0],UNI | ,AXIS["Gravity-related height |
| | | T["Meter",1.0]],VERTCS["NAVD88_height_(ft | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | US)",VDATUM["North_American_Vertical_Da | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_NAD_ |
| | | tum_1988"],PARAMETER["Vertical_Shift",0.0] | 1983_2011",DYNAMIC[FRAMEEPOCH[2010.0],MO |
| | | ,PARAMETER["Direction",1.0],UNIT["Foot_US | DEL["HTDP"]],DATUM["D_NAD_1983_2011",ELLIP |
| | | ",0.3048006096012192]],VTMETHOD["VERTC | SOID["GRS_1980",6378137.0,298.257222101,LEN |
| | | ON"],PARAMETER["Dataset_vertconecw.94", | GTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0 |
| | | 0.0],OPERATIONACCURACY[0.02]] | ,ANGLEUNIT["Degree",0.0174532925199433]],CS[|
| | | | ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|----------------------------------------------------|
| 110080 | NGVD29_ht_To_NAVD88_ht_IntlFt_N | VERTTRAN["NGVD29_ht_To_NAVD88_ht_Intl | COORDINATEOPERATION["NGVD29_ht_To_NAVD |
| | AD83_ECW | Ft_NAD83_ECW",GEOGCS["GCS_North_Amer | 88_ht_IntlFt_NAD83_ECW",SOURCECRS[VERTCRS[|
| | | ican_1983",DATUM["D_North_American_198 | "NGVD_1929",VDATUM["National_Geodetic_Verti |
| | | 3",SPHEROID["GRS_1980",6378137.0,298.25 | cal_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | related height |
| | | Degree",0.0174532925199433]],VERTCS["NG | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | VD_1929",VDATUM["National_Geodetic_Ver | 192]]]],TARGETCRS[VERTCRS["NAVD88_height_(ftl |
| | | tical_Datum_1929"],PARAMETER["Vertical_S | ntl)",VDATUM["North_American_Vertical_Datum_ |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | Foot_US",0.3048006096012192]],VERTCS["N | (H)",up,LENGTHUNIT["Foot",0.3048]]]],INTERPOLA |
| | | AVD88_height_(ftIntl)",VDATUM["North_Am | TIONCRS[GEOGCRS["GCS_North_American_1983", |
| | | erican_Vertical_Datum_1988"],PARAMETER[" | DATUM["D_North_American_1983",ELLIPSOID["G |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | .0],UNIT["Foot",0.3048]],VTMETHOD["VERTC | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | ON"],PARAMETER["Dataset_vertconecw.94", | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | 0.0],OPERATIONACCURACY[0.02]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|--------------------------------------------|----------------------------------------------------|
| 110081 | NGVD29_ht_To_NAVD88_ht_IntlFt_20 | VERTTRAN["NGVD29_ht_To_NAVD88_ht_Intl | COORDINATEOPERATION["NGVD29_ht_To_NAVD |
| | 11_ECW | Ft_2011_ECW",GEOGCS["GCS_NAD_1983_20 | 88_ht_IntlFt_2011_ECW",SOURCECRS[VERTCRS[" |
| | | 11",DATUM["D_NAD_1983_2011",SPHEROID | NGVD_1929",VDATUM["National_Geodetic_Vertic |
| | | ["GRS_1980",6378137.0,298.257222101]],PRI | al_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | related height |
| | | 4532925199433]],VERTCS["NGVD_1929",VDA | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | TUM["National_Geodetic_Vertical_Datum_1 | 192]]],TARGETCRS[VERTCRS["NAVD88_height_(ftl |
| | | 929"],PARAMETER["Vertical_Shift",0.0],PARA | ntl)",VDATUM["North_American_Vertical_Datum_ |
| | | METER["Direction",1.0],UNIT["Foot_US",0.30 | 1988"],CS[vertical,1],AXIS["Gravity-related height |
| | | 48006096012192]],VERTCS["NAVD88_height | (H)",up,LENGTHUNIT["Foot",0.3048]]]],INTERPOLA |
| | | _(ftIntl)",VDATUM["North_American_Vertical | TIONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNA |
| | | _Datum_1988"],PARAMETER["Vertical_Shift", | MIC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DAT |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Foot | UM["D_NAD_1983_2011",ELLIPSOID["GRS_1980", |
| | | ",0.3048]],VTMETHOD["VERTCON"],PARAME | 6378137.0,298.257222101,LENGTHUNIT["Meter", |
| | | TER["Dataset_vertconecw.94",0.0],OPERATIO | 1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degr |
| | | NACCURACY[0.02]] | ee",0.0174532925199433]],CS[ellipsoidal,2],AXIS[" |
| | | | Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON"],PARAME |
| | | | TERFILE["vertconecw.94"],OPERATIONACCURACY[|
| | | | 0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|---------------------------------------------|---------------------------------------------------|
| 110082 | ETRS89_To_EVRF2007_Height_EGG20 | VERTTRAN["ETRS89_To_EVRF2007_Height_E | COORDINATEOPERATION["ETRS89_To_EVRF2007_ |
| | 15 | GG2015",GEOGCS["GCS_ETRS_1989",DATUM | Height_EGG2015",SOURCECRS[VERTCRS["ETRS_19 |
| | | ["D_ETRS_1989",SPHEROID["GRS_1980",637 | 89",DATUM["D_ETRS_1989",ELLIPSOID["GRS_198 |
| | | 8137.0,298.257222101]],PRIMEM["Greenwic | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | h",0.0],UNIT["Degree",0.0174532925199433] | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |],VERTCS["ETRS_1989",DATUM["D_ETRS_198 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | ERTCRS["EVRF_2007",VDATUM["European_Vertic |
| | | 7222101]],PARAMETER["Vertical_Shift",0.0],P | al_Reference_Frame_2007"],CS[vertical,1],AXIS["G |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | ravity-related height |
| | | 0]],VERTCS["EVRF_2007",VDATUM["Europea | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | n_Vertical_Reference_Frame_2007"],PARAM | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["G | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | EOID"],PARAMETER["Dataset_EGG2015- | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | qg_g10m15m",0.0],OPERATIONACCURACY[0. | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | 1]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EGG2015- |
| | | | qg_g10m15m"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|-----------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WKID 110083 | Name Newlyn_To_EVRS_2000_1 | VERTTRAN["Newlyn_To_EVRS_2000_1",GEO GCS["GCS_ETRS_1989",DATUM["D_ETRS_198 9",SPHEROID["GRS_1980",6378137.0,298.25 7222101]],PRIMEM["Greenwich",0.0],UNIT[" Degree",0.0174532925199433]],VERTCS["Ne wlyn",VDATUM["Ordnance_Datum_Newlyn"],PARAMETER["Vertical_Shift",0.0],PARAMETE R["Direction",1.0],UNIT["Meter",1.0]],VERTCS ["EVRS_2000",VDATUM["European_Vertical_Reference_Frame_2000"],PARAMETER["Verti | COORDINATEOPERATION["Newlyn_To_EVRS_2000 _1",SOURCECRS[VERTCRS["Newlyn",VDATUM["Or dnance_Datum_Newlyn"],CS[vertical,1],AXIS["Gra vity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRS_2000",VDATUM["European_Verti cal_Reference_Frame_2000"],CS[vertical,1],AXIS[" Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VTMETHOD["Vertical_Offs et_and_Slope"],PARAMETER["Vertical_Offset ",0.07],PARAMETER["Longitude_Of_Evaluatio n",- 2.25],PARAMETER["Latitude_Of_Evaluation", 54.583333333333334],PARAMETER["Inclinatio n_North",0.044],PARAMETER["Inclination_Ea st",0.0],OPERATIONACCURACY[0.1]] | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["Vertical_Offset_and _Slope"],PARAMETER["Vertical_Offset",0.07,LENG THUNIT["Meter",1.0]],PARAMETER["Longitude_Of _Evaluation",- |
| | | | 2.25,ANGLEUNIT["Degree",0.0174532925199433]] ,PARAMETER["Latitude_Of_Evaluation",54.583333 33333334,ANGLEUNIT["Degree",0.017453292519 9433]],PARAMETER["Inclination_North",0.044,AN GLEUNIT["Arcsecond",0.00000484813681109536]] ,PARAMETER["Inclination_East",0.0,ANGLEUNIT[" Arcsecond",0.00000484813681109536]],OPERATI ONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|---------------------------------------------|----------------------------------------------------|
| 110084 | WGS_1984_To_EGM_1996_Geoid_2 | VERTTRAN["WGS_1984_To_EGM_1996_Geoi | COORDINATEOPERATION["WGS_1984_To_EGM_1 |
| | | d_2",GEOGCS["GCS_WGS_1984",DATUM["D_ | 996_Geoid_2",SOURCECRS[VERTCRS["WGS_1984" |
| | | WGS_1984",SPHEROID["WGS_1984",637813 | ,DYNAMIC[FRAMEEPOCH[1990.5],MODEL["AM0- |
| | | 7.0,298.257223563]],PRIMEM["Greenwich",0 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | RTCS["WGS_1984",DATUM["D_WGS_1984",S | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | PHEROID["WGS_1984",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 3563]],PARAMETER["Vertical_Shift",0.0],PAR | ERTCRS["EGM96_Geoid",VDATUM["EGM96_Geoid |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | "],CS[vertical,1],AXIS["Gravity-related height |
| | | VERTCS["EGM96_Geoid",VDATUM["EGM96_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Geoid"],PARAMETER["Vertical_Shift",0.0],PA | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | AMEEPOCH[1990.5],MODEL["AM0- |
| | |],VTMETHOD["EGM96_Natural_Spline"],PAR | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | AMETER["Dataset_egm96.grd",0.0],OPERATI | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | ONACCURACY[5.0]] | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96_Natural_Spli |
| | | | ne"],PARAMETERFILE["egm96.grd"],OPERATIONAC |
| | | | CURACY[5.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110085 | WGS_1984_To_EGM_1984_Geoid_2 | VERTTRAN["WGS_1984_To_EGM_1984_Geoid_2",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["WGS_1984",DATUM["D_WGS_1984",SPHEROID["WGS_1984",6378137.0,298.257223563]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["EGM84_Geoid",VDATUM["EGM84_Geoid"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["EGM84_Natural_Spline"],PARAMETER["Dataset_egm84.grd",0.0],OPERATIONACCURACY[1.0]] | COORDINATEOPERATION["WGS_1984_To_EGM_1 984_Geoid_2",SOURCECRS[VERTCRS["WGS_1984",DYNAMIC[FRAMEEPOCH[1990.5],MODEL["AM0-2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 84",6378137.0,298.257223563,LENGTHUNIT["Met er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["EGM84_Geoid",VDATUM["EGM84_Geoid"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR AMEEPOCH[1990.5],MODEL["AM0-2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_1984",6378137.0,298.257223563,LENGTHUNIT["Met er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],A XIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["EGM84_Natural_Spli ne"],PARAMETERFILE["egm84.grd"],OPERATIONAC CURACY[1.0]] |
| 110086 | NZVD2009_To_One_Tree_Point_1 | VERTTRAN["NZVD2009_To_One_Tree_Point_ 1",VERTCS["NZVD2009_height",VDATUM["Ne w_Zealand_Vertical_Datum_2009"],PARAME TER["Vertical_Shift",0.0],PARAMETER["Directi on",1.0],UNIT["Meter",1.0]],VERTCS["One_Tr ee_Point",VDATUM["One_Tree_Point"],PARA METER["Vertical_Shift",0.0],PARAMETER["Dir ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" Vertical_Offset"],PARAMETER["Vertical_Offse t",0.06],OPERATIONACCURACY[0.03]] | COORDINATEOPERATION["NZVD2009_To_One_Tr ee_Point_1",SOURCECRS[VERTCRS["NZVD2009_he ight",VDATUM["New_Zealand_Vertical_Datum_20 09"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["One_Tree_Point",VDATUM["One_Tree_Point"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.06, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110087 | NZVD2009_To_Auckland_1 | VERTTRAN["NZVD2009_To_Auckland_1",VER TCS["NZVD2009_height",VDATUM["New_Zea land_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VERTCS["Auckland",VD ATUM["Auckland"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VTMETHOD["Vertical_Offset"],P ARAMETER["Vertical_Offset",0.34],OPERATIO NACCURACY[0.05]] | COORDINATEOPERATION["NZVD2009_To_Aucklan d_1",SOURCECRS[VERTCRS["NZVD2009_height",V DATUM["New_Zealand_Vertical_Datum_2009"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Auckland",VDATUM["Auckland"],CS[ver tical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.34, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.05]] |
| 110088 | NZVD2009_To_Moturiki_1 | VERTTRAN["NZVD2009_To_Moturiki_1",VERT CS["NZVD2009_height",VDATUM["New_Zeal and_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VERTCS["Moturiki",VD ATUM["Moturiki"],PARAMETER["Vertical_Shif t",0.0],PARAMETER["Direction",1.0],UNIT["M eter",1.0]],VTMETHOD["Vertical_Offset"],PAR AMETER["Vertical_Offset",0.24],OPERATIONA CCURACY[0.06]] | COORDINATEOPERATION["NZVD2009_To_Moturik i_1",SOURCECRS[VERTCRS["NZVD2009_height",VD ATUM["New_Zealand_Vertical_Datum_2009"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| 110089 | NZVD2009_To_Nelson_1 | VERTTRAN["NZVD2009_To_Nelson_1",VERTC S["NZVD2009_height",VDATUM["New_Zeala nd_Vertical_Datum_2009"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Nelson",VDATU M["Nelson"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset",0.29],OPERATIONACCU RACY[0.07]] | COORDINATEOPERATION["NZVD2009_To_Nelson_ 1",SOURCECRS[VERTCRS["NZVD2009_height",VDA TUM["New_Zealand_Vertical_Datum_2009"],CS[v ertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Nelson",VDATUM["Nelson"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.29, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.07]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110090 | NZVD2009_To_Gisborne_1 | VERTTRAN["NZVD2009_To_Gisborne_1",VER TCS["NZVD2009_height",VDATUM["New_Zea land_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VERTCS["Gisborne",VD ATUM["Gisborne"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VTMETHOD["Vertical_Offset"],P ARAMETER["Vertical_Offset"],ONACCURACY[0.02]] | COORDINATEOPERATION["NZVD2009_To_Gisborn e_1",SOURCECRS[VERTCRS["NZVD2009_height",V DATUM["New_Zealand_Vertical_Datum_2009"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Gisborne",VDATUM["Gisborne"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.34, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.02]] |
| 110091 | NZVD2009_To_Napier_1 | VERTTRAN["NZVD2009_To_Napier_1",VERTC S["NZVD2009_height",VDATUM["New_Zeala nd_Vertical_Datum_2009"],PARAMETER["Ver tical_Shift",0.0],PARAMETER["Direction",1.0], UNIT["Meter",1.0]],VERTCS["Napier",VDATU M["Napier"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter", 1.0]],VTMETHOD["Vertical_Offset"],PARAME TER["Vertical_Offset",0.2],OPERATIONACCUR ACY[0.05]] | COORDINATEOPERATION["NZVD2009_To_Napier_ 1",SOURCECRS[VERTCRS["NZVD2009_height",VDA TUM["New_Zealand_Vertical_Datum_2009"],CS[v ertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Napier",VDATUM["Napier"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.2,L ENGTHUNIT["Meter",1.0]],OPERATIONACCURACY[0.05]] |
| 110092 | NZVD2009_To_Taranaki_1 | VERTTRAN["NZVD2009_To_Taranaki_1",VERT CS["NZVD2009_height",VDATUM["New_Zeal and_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Taranaki",VD ATUM["Taranaki"],PARAMETER["Vertical_Shif t",0.0],PARAMETER["Direction",1.0],UNIT["M eter",1.0]],VTMETHOD["Vertical_Offset"],PAR AMETER["Vertical_Offset",0.32],OPERATIONA CCURACY[0.05]] | COORDINATEOPERATION["NZVD2009_To_Taranak i_1",SOURCECRS[VERTCRS["NZVD2009_height",VD ATUM["New_Zealand_Vertical_Datum_2009"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110093 | NZVD2009_To_Wellington_1 | VERTTRAN["NZVD2009_To_Wellington_1",VERTCS["NZVD2009_height",VDATUM["New_Zealand_Vertical_Datum_2009"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Wellington",VDATUM["Wellington"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset",0.44],OPERATIONACCURACY[0.04]] | COORDINATEOPERATION["NZVD2009_To_Welling ton_1",SOURCECRS[VERTCRS["NZVD2009_height", VDATUM["New_Zealand_Vertical_Datum_2009"], CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Wellington",VDATUM["Wellington"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.44, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.04]] |
| 110094 | NZVD2009_To_Lyttelton_1 | VERTTRAN["NZVD2009_To_Lyttelton_1",VER TCS["NZVD2009_height",VDATUM["New_Zea land_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VERTCS["Lyttelton",VD ATUM["Lyttelton"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT[" Meter",1.0]],VTMETHOD["Vertical_Offset"],PARAMETER["Vertical_Offset"],PARAMETER["Vertical_Offset",0.47],OPERATIO NACCURACY[0.09]] | COORDINATEOPERATION["NZVD2009_To_Lyttelto n_1",SOURCECRS[VERTCRS["NZVD2009_height",V DATUM["New_Zealand_Vertical_Datum_2009"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Lyttelton",VDATUM["Lyttelton"],CS[vert ical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.47, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.09]] |
| 110095 | NZVD2009_To_Dunedin_1 | VERTTRAN["NZVD2009_To_Dunedin_1",VERT CS["NZVD2009_height",VDATUM["New_Zeal and_Vertical_Datum_2009"],PARAMETER["V ertical_Shift",0.0],PARAMETER["Direction",1. 0],UNIT["Meter",1.0]],VERTCS["Dunedin",VD ATUM["Dunedin"],PARAMETER["Vertical_Shif t",0.0],PARAMETER["Direction",1.0],UNIT["M eter",1.0]],VTMETHOD["Vertical_Offset"],PAR AMETER["Vertical_Offset",0.49],OPERATIONA CCURACY[0.07]] | COORDINATEOPERATION["NZVD2009_To_Dunedi n_1",SOURCECRS[VERTCRS["NZVD2009_height",V DATUM["New_Zealand_Vertical_Datum_2009"],C S[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110096 | NZVD2009_To_Bluff_1 | VERTTRAN["NZVD2009_To_Bluff_1",VERTCS["NZVD2009_height",VDATUM["New_Zealand _Vertical_Datum_2009"],PARAMETER["Vertic al_Shift",0.0],PARAMETER["Direction",1.0],U NIT["Meter",1.0]],VERTCS["Bluff",VDATUM[" Bluff"],PARAMETER["Vertical_Shift",0.0],PAR AMETER["Direction",1.0],UNIT["Meter",1.0]], VTMETHOD["Vertical_Offset"],PARAMETER[" Vertical_Offset",0.36],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["NZVD2009_To_Bluff_1" ,SOURCECRS[VERTCRS["NZVD2009_height",VDAT UM["New_Zealand_Vertical_Datum_2009"],CS[ve rtical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Bluff",VDATUM["Bluff"],CS[vertical,1],A XIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.36, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY |
| 110097 | NZVD2009_To_Stewart_Island_1 | VERTTRAN["NZVD2009_To_Stewart_Island_1 ",VERTCS["NZVD2009_height",VDATUM["Ne w_Zealand_Vertical_Datum_2009"],PARAME TER["Vertical_Shift",0.0],PARAMETER["Directi on",1.0],UNIT["Meter",1.0]],VERTCS["Stewart _Island",VDATUM["Stewart_Island"],PARAME TER["Vertical_Shift",0.0],PARAMETER["Directi on",1.0],UNIT["Meter",1.0]],VTMETHOD["Ver tical_Offset"],PARAMETER["Vertical_Offset", 0.39],OPERATIONACCURACY[0.15]] | [0.05]] COORDINATEOPERATION["NZVD2009_To_Stewart _Island_1",SOURCECRS[VERTCRS["NZVD2009_heig ht",VDATUM["New_Zealand_Vertical_Datum_200 9"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Stewart_Island",VDATUM["Stewart_Island"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Vertical_Offset"],PARAMETER["Vertical_Offset",0.39, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.15]] |
| 110098 | NZVD2009_To_Dunedin_Bluff_1960_1 | VERTTRAN["NZVD2009_To_Dunedin_Bluff_1 960_1",VERTCS["NZVD2009_height",VDATU M["New_Zealand_Vertical_Datum_2009"],PA RAMETER["Vertical_Shift",0.0],PARAMETER[" Direction",1.0],UNIT["Meter",1.0]],VERTCS["D unedin_Bluff_1960_height",VDATUM["Duned in_Bluff_1960"],PARAMETER["Vertical_Shift", 0.0],PARAMETER["Direction",1.0],UNIT["Met er",1.0]],VTMETHOD["Vertical_Offset"],PARA METER["Vertical_Offset",0.38],OPERATIONAC CURACY[0.04]] | COORDINATEOPERATION["NZVD2009_To_Dunedi n_Bluff_1960_1",SOURCECRS[VERTCRS["NZVD200 9_height",VDATUM["New_Zealand_Vertical_Datu m_2009"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Dunedin_Bluff_1960_height",VDATUM["Dunedin_Bluff_1960"],CS[vertical,1],AXIS["Gravit y-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["Ve rtical_Offset"],PARAMETER["Vertical_Offset",0.38, LENGTHUNIT["Meter",1.0]],OPERATIONACCURACY [0.04]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|--------------------------------------------|----------------------------------------------------|
| 110099 | WGS_1984_To_MSL_Height_EGM200 | VERTTRAN["WGS_1984_To_MSL_Height_EG | COORDINATEOPERATION["WGS_1984_To_MSL_H |
| | 8_1x1 | M2008_1x1",GEOGCS["GCS_WGS_1984",DAT | eight_EGM2008_1x1",SOURCECRS[VERTCRS["WGS |
| | | UM["D_WGS_1984",SPHEROID["WGS_1984", | _1984",DYNAMIC[FRAMEEPOCH[1990.5],MODEL[" |
| | | 6378137.0,298.257223563]],PRIMEM["Green | AM0- |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 33]],VERTCS["WGS_1984",DATUM["D_WGS_ | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | 1984",SPHEROID["WGS_1984",6378137.0,29 | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 8.257223563]],PARAMETER["Vertical_Shift",0 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | ERTCRS["MSL_Height",VDATUM["Mean_Sea_Level |
| | | ",1.0]],VERTCS["MSL_Height",VDATUM["Mea | "],CS[vertical,1],AXIS["Gravity-related height |
| | | n_Sea_Level"],PARAMETER["Vertical_Shift",0 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | ",1.0]],VTMETHOD["EGM96"],PARAMETER["D | AMEEPOCH[1990.5],MODEL["AM0- |
| | | ataset_egm2008- | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 1.grd",1.0],OPERATIONACCURACY[0.5]] | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm2008- |
| | | | 1.grd"],OPERATIONACCURACY[0.5]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|----------------------------------------------------|
| 110100 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Depth_CONUS_GEOID12B | VD88_Depth_CONUS_GEOID12B",GEOGCS[" | ht_To_NAVD88_Depth_CONUS_GEOID12B",SOUR |
| | | GCS_NAD_1983_2011",DATUM["D_NAD_198 | CECRS[VERTCRS["NAD_1983_2011",DYNAMIC[FRA |
| | | 3_2011",SPHEROID["GRS_1980",6378137.0,2 | MEEPOCH[2010.0],MODEL["HTDP"]],DATUM["D_ |
| | | 98.257222101]],PRIMEM["Greenwich",0.0],U | NAD_1983_2011",ELLIPSOID["GRS_1980",637813 |
| | | NIT["Degree",0.0174532925199433]],VERTCS | 7.0,298.257222101,LENGTHUNIT["Meter",1.0]]],C |
| | | ["NAD_1983_2011",DATUM["D_NAD_1983_2 | S[vertical,1],AXIS["Ellipsoidal height |
| | | 011",SPHEROID["GRS_1980",6378137.0,298. | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 257222101]],PARAMETER["Vertical_Shift",0.0 | ERTCRS["NAVD88_depth",VDATUM["North_Ameri |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | can_Vertical_Datum_1988"],CS[vertical,1],AXIS["G |
| | | 1.0]],VERTCS["NAVD88_depth",VDATUM["No | ravity-related height |
| | | rth_American_Vertical_Datum_1988"],PARA | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ATIONCRS[GEOGCRS["GCS_NAD_1983_2011",DYN |
| | | ection",- | AMIC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DA |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | TUM["D_NAD_1983_2011",ELLIPSOID["GRS_1980 |
| | |],PARAMETER["Dataset_g2012bu0",0.0],OPE | ",6378137.0,298.257222101,LENGTHUNIT["Meter |
| | | RATIONACCURACY[0.017]] | ",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["De |
| | | | gree",0.0174532925199433]],CS[ellipsoidal,2],AXI |
| | | | S["Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|----------------------------------------------------|
| 110101 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Depth_Alaska_GEOID12B | VD88_Depth_Alaska_GEOID12B",GEOGCS["G | ht_To_NAVD88_Depth_Alaska_GEOID12B",SOURC |
| | | CS_NAD_1983_2011",DATUM["D_NAD_1983 | ECRS[VERTCRS["NAD_1983_2011",DYNAMIC[FRA |
| | | _2011",SPHEROID["GRS_1980",6378137.0,29 | MEEPOCH[2010.0],MODEL["HTDP"]],DATUM["D_ |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | NAD_1983_2011",ELLIPSOID["GRS_1980",637813 |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | 7.0,298.257222101,LENGTHUNIT["Meter",1.0]]],C |
| | | NAD_1983_2011",DATUM["D_NAD_1983_20 | S[vertical,1],AXIS["Ellipsoidal height |
| | | 11",SPHEROID["GRS_1980",6378137.0,298.2 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ERTCRS["NAVD88_depth",VDATUM["North_Ameri |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | can_Vertical_Datum_1988"],CS[vertical,1],AXIS["G |
| | | .0]],VERTCS["NAVD88_depth",VDATUM["Nor | ravity-related height |
| | | th_American_Vertical_Datum_1988"],PARAM | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | ATIONCRS[GEOGCRS["GCS_NAD_1983_2011",DYN |
| | | tion",- | AMIC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DA |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | TUM["D_NAD_1983_2011",ELLIPSOID["GRS_1980 |
| | |],PARAMETER["Dataset_g2012ba0",0.0],OPE | ",6378137.0,298.257222101,LENGTHUNIT["Meter |
| | | RATIONACCURACY[0.017]] | ",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["De |
| | | | gree",0.0174532925199433]],CS[ellipsoidal,2],AXI |
| | | | S["Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|--------------------------------------------------|
| 110102 | NAD_1983_PA11_Height_To_NAVD88 | VERTTRAN["NAD_1983_PA11_Height_To_NA | COORDINATEOPERATION["NAD_1983_PA11_Heig |
| | _Depth_Hawaii_GEOID12B | VD88_Depth_Hawaii_GEOID12B",GEOGCS["G | ht_To_NAVD88_Depth_Hawaii_GEOID12B",SOUR |
| | | CS_NAD_1983_PA11",DATUM["D_NAD_1983 | CECRS[VERTCRS["NAD_1983_PA11",DYNAMIC[FRA |
| | | _PA11",SPHEROID["GRS_1980",6378137.0,29 | MEEPOCH[2012.4467],MODEL["HTDP"]],DATUM[" |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | D_NAD_1983_PA11",ELLIPSOID["GRS_1980",6378 |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | NAD_1983_PA11",DATUM["D_NAD_1983_PA | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | 11",SPHEROID["GRS_1980",6378137.0,298.2 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ERTCRS["NAVD88_depth",VDATUM["North_Ameri |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | can_Vertical_Datum_1988"],CS[vertical,1],AXIS["G |
| | | .0]],VERTCS["NAVD88_depth",VDATUM["Nor | ravity-related height |
| | | th_American_Vertical_Datum_1988"],PARAM | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | ATIONCRS[GEOGCRS["GCS_NAD_1983_PA11",DYN |
| | | tion",- | AMIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]] |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | ,DATUM["D_NAD_1983_PA11",ELLIPSOID["GRS_1 |
| | |],PARAMETER["Dataset_g2012bh0",0.0],OPE | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | RATIONACCURACY[0.017]] | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | | AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bh0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|-------------------------------------------------|
| 110103 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Height_USFT_CONUS_GEOID12B | VD88_Height_USFT_CONUS_GEOID12B",GEO | ht_To_NAVD88_Height_USFT_CONUS_GEOID12B" |
| | | GCS["GCS_NAD_1983_2011",DATUM["D_NA | ,SOURCECRS[VERTCRS["NAD_1983_2011",DYNAM |
| | | D_1983_2011",SPHEROID["GRS_1980",63781 | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | ERTCS["NAD_1983_2011",DATUM["D_NAD_1 | 0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 983_2011",SPHEROID["GRS_1980",6378137. | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 0,298.257222101]],PARAMETER["Vertical_Shi | ERTCRS["NAVD88_height_(ftUS)",VDATUM["North |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | Meter",1.0]],VERTCS["NAVD88_height_(ftUS) | AXIS["Gravity-related height |
| | | ",VDATUM["North_American_Vertical_Datu | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_NAD_ |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | 1983_2011",DYNAMIC[FRAMEEPOCH[2010.0],MO |
| | | 0.3048006096012192]],VTMETHOD["GEOID"] | DEL["HTDP"]],DATUM["D_NAD_1983_2011",ELLIP |
| | | ,PARAMETER["Dataset_g2012bu0",0.0],OPER | SOID["GRS_1980",6378137.0,298.257222101,LEN |
| | | ATIONACCURACY[0.017]] | GTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0 |
| | | | ,ANGLEUNIT["Degree",0.0174532925199433]],CS[|
| | | | ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|-------------------------------------------------|
| 110104 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Height_USFT_Alaska_GEOID12B | VD88_Height_USFT_Alaska_GEOID12B",GEO | ht_To_NAVD88_Height_USFT_Alaska_GEOID12B", |
| | | GCS["GCS_NAD_1983_2011",DATUM["D_NA | SOURCECRS[VERTCRS["NAD_1983_2011",DYNAMI |
| | | D_1983_2011",SPHEROID["GRS_1980",63781 | C[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATUM |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | ["D_NAD_1983_2011",ELLIPSOID["GRS_1980",637 |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | ERTCS["NAD_1983_2011",DATUM["D_NAD_1 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 983_2011",SPHEROID["GRS_1980",6378137. | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 0,298.257222101]],PARAMETER["Vertical_Shi | ERTCRS["NAVD88_height_(ftUS)",VDATUM["North |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | Meter",1.0]],VERTCS["NAVD88_height_(ftUS) | AXIS["Gravity-related height |
| | | ",VDATUM["North_American_Vertical_Datu | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | 192]]]],INTERPOLATIONCRS[GEOGCRS["GCS_NAD_ |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | 1983_2011",DYNAMIC[FRAMEEPOCH[2010.0],MO |
| | | 0.3048006096012192]],VTMETHOD["GEOID"] | DEL["HTDP"]],DATUM["D_NAD_1983_2011",ELLIP |
| | | ,PARAMETER["Dataset_g2012ba0",0.0],OPER | SOID["GRS_1980",6378137.0,298.257222101,LEN |
| | | ATIONACCURACY[0.017]] | GTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0 |
| | | | ,ANGLEUNIT["Degree",0.0174532925199433]],CS[|
| | | | ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|-------------------------------------------------|
| 110105 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Depth_USFT_CONUS_GEOID12B | VD88_Depth_USFT_CONUS_GEOID12B",GEO | ht_To_NAVD88_Depth_USFT_CONUS_GEOID12B", |
| | | GCS["GCS_NAD_1983_2011",DATUM["D_NA | SOURCECRS[VERTCRS["NAD_1983_2011",DYNAMI |
| | | D_1983_2011",SPHEROID["GRS_1980",63781 | C[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATUM |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | ["D_NAD_1983_2011",ELLIPSOID["GRS_1980",637 |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | ERTCS["NAD_1983_2011",DATUM["D_NAD_1 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 983_2011",SPHEROID["GRS_1980",6378137. | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 0,298.257222101]],PARAMETER["Vertical_Shi | ERTCRS["NAVD88_depth_(ftUS)",VDATUM["North |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | Meter",1.0]],VERTCS["NAVD88_depth_(ftUS) | AXIS["Gravity-related height |
| | | ",VDATUM["North_American_Vertical_Datu | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | 012192]]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | ARAMETER["Direction",- | AD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0], |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | MODEL["HTDP"]],DATUM["D_NAD_1983_2011",E |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | LLIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | g2012bu0",0.0],OPERATIONACCURACY[0.017 | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | | CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|-------------------------------------------------|
| 110106 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Depth_USFT_Alaska_GEOID12B | VD88_Depth_USFT_Alaska_GEOID12B",GEOG | ht_To_NAVD88_Depth_USFT_Alaska_GEOID12B", |
| | | CS["GCS_NAD_1983_2011",DATUM["D_NAD | SOURCECRS[VERTCRS["NAD_1983_2011",DYNAMI |
| | | _1983_2011",SPHEROID["GRS_1980",637813 | C[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATUM |
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | ["D_NAD_1983_2011",ELLIPSOID["GRS_1980",637 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | RTCS["NAD_1983_2011",DATUM["D_NAD_19 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 83_2011",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["NAVD88_depth_(ftUS)",VDATUM["North |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | ter",1.0]],VERTCS["NAVD88_depth_(ftUS)",V | AXIS["Gravity-related height |
| | | DATUM["North_American_Vertical_Datum_1 | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | 012192]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | METER["Direction",- | AD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0], |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | MODEL["HTDP"]],DATUM["D_NAD_1983_2011",E |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | LLIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | g2012ba0",0.0],OPERATIONACCURACY[0.017] | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | |] | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | | CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110107 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Height_IFT_CONUS_GEOID12B | VD88_Height_IFT_CONUS_GEOID12B",GEOG | ht_To_NAVD88_Height_IFT_CONUS_GEOID12B",S |
| | | CS["GCS_NAD_1983_2011",DATUM["D_NAD | OURCECRS[VERTCRS["NAD_1983_2011",DYNAMIC |
| | | _1983_2011",SPHEROID["GRS_1980",637813 | [FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATUM[|
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | "D_NAD_1983_2011",ELLIPSOID["GRS_1980",637 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | RTCS["NAD_1983_2011",DATUM["D_NAD_19 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 83_2011",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["NAVD88_height_(ftIntl)",VDATUM["Nort |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | h_American_Vertical_Datum_1988"],CS[vertical,1] |
| | | ter",1.0]],VERTCS["NAVD88_height_(ftIntl)",V | ,AXIS["Gravity-related height |
| | | DATUM["North_American_Vertical_Datum_1 | (H)",up,LENGTHUNIT["Foot",0.3048]]]],INTERPOLA |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | TIONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNA |
| | | METER["Direction",1.0],UNIT["Foot",0.3048]] | MIC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DAT |
| | | ,VTMETHOD["GEOID"],PARAMETER["Dataset | UM["D_NAD_1983_2011",ELLIPSOID["GRS_1980", |
| | | _g2012bu0",0.0],OPERATIONACCURACY[0.01 | 6378137.0,298.257222101,LENGTHUNIT["Meter", |
| | | 7]] | 1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degr |
| | | | ee",0.0174532925199433]],CS[ellipsoidal,2],AXIS[" |
| | | | Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|----------------------------------------------------|
| 110108 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Depth_CONUS_GEOID18 | VD88_Depth_CONUS_GEOID18",GEOGCS["G | ht_To_NAVD88_Depth_CONUS_GEOID18",SOURC |
| | | CS_NAD_1983_2011",DATUM["D_NAD_1983 | ECRS[VERTCRS["NAD_1983_2011",DYNAMIC[FRA |
| | | _2011",SPHEROID["GRS_1980",6378137.0,29 | MEEPOCH[2010.0],MODEL["HTDP"]],DATUM["D_ |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | NAD_1983_2011",ELLIPSOID["GRS_1980",637813 |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | 7.0,298.257222101,LENGTHUNIT["Meter",1.0]]],C |
| | | NAD_1983_2011",DATUM["D_NAD_1983_20 | S[vertical,1],AXIS["Ellipsoidal height |
| | | 11",SPHEROID["GRS_1980",6378137.0,298.2 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ERTCRS["NAVD88_depth",VDATUM["North_Ameri |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | can_Vertical_Datum_1988"],CS[vertical,1],AXIS["G |
| | | .0]],VERTCS["NAVD88_depth",VDATUM["Nor | ravity-related height |
| | | th_American_Vertical_Datum_1988"],PARAM | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | ATIONCRS[GEOGCRS["GCS_NAD_1983_2011",DYN |
| | | tion",- | AMIC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DA |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | TUM["D_NAD_1983_2011",ELLIPSOID["GRS_1980 |
| | |],PARAMETER["Dataset_g2018u0",0.0],OPER | ",6378137.0,298.257222101,LENGTHUNIT["Meter |
| | | ATIONACCURACY[0.0139]] | ",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["De |
| | | | gree",0.0174532925199433]],CS[ellipsoidal,2],AXI |
| | | | S["Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2018u0"],OPERATIONACCURACY[0.0139]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|-------------------------------------------------|
| 110109 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Height_USFT_CONUS_GEOID18 | VD88_Height_USFT_CONUS_GEOID18",GEOG | ht_To_NAVD88_Height_USFT_CONUS_GEOID18", |
| | | CS["GCS_NAD_1983_2011",DATUM["D_NAD | SOURCECRS[VERTCRS["NAD_1983_2011",DYNAMI |
| | | _1983_2011",SPHEROID["GRS_1980",637813 | C[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATUM |
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | ["D_NAD_1983_2011",ELLIPSOID["GRS_1980",637 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | RTCS["NAD_1983_2011",DATUM["D_NAD_19 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 83_2011",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["NAVD88_height_(ftUS)",VDATUM["North |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | ter",1.0]],VERTCS["NAVD88_height_(ftUS)",V | AXIS["Gravity-related height |
| | | DATUM["North_American_Vertical_Datum_1 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_NAD_ |
| | | METER["Direction",1.0],UNIT["Foot_US",0.30 | 1983_2011",DYNAMIC[FRAMEEPOCH[2010.0],MO |
| | | 48006096012192]],VTMETHOD["GEOID"],PA | DEL["HTDP"]],DATUM["D_NAD_1983_2011",ELLIP |
| | | RAMETER["Dataset_g2018u0",0.0],OPERATIO | SOID["GRS_1980",6378137.0,298.257222101,LEN |
| | | NACCURACY[0.0139]] | GTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0 |
| | | | ,ANGLEUNIT["Degree",0.0174532925199433]],CS[|
| | | | ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2018u0"],OPERATIONACCURACY[0.0139]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|-------------------------------------------------|
| 110110 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Depth_USFT_CONUS_GEOID18 | VD88_Depth_USFT_CONUS_GEOID18",GEOG | ht_To_NAVD88_Depth_USFT_CONUS_GEOID18",S |
| | | CS["GCS_NAD_1983_2011",DATUM["D_NAD | OURCECRS[VERTCRS["NAD_1983_2011",DYNAMIC |
| | | _1983_2011",SPHEROID["GRS_1980",637813 | [FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATUM[|
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | "D_NAD_1983_2011",ELLIPSOID["GRS_1980",637 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | RTCS["NAD_1983_2011",DATUM["D_NAD_19 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 83_2011",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["NAVD88_depth_(ftUS)",VDATUM["North |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | ter",1.0]],VERTCS["NAVD88_depth_(ftUS)",V | AXIS["Gravity-related height |
| | | DATUM["North_American_Vertical_Datum_1 | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | 012192]]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | METER["Direction",- | AD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0], |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | MODEL["HTDP"]],DATUM["D_NAD_1983_2011",E |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | LLIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | g2018u0",0.0],OPERATIONACCURACY[0.0139 | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | | CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2018u0"],OPERATIONACCURACY[0.0139]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110111 | NAD_1983_2011_Height_To_NAVD88 | VERTTRAN["NAD_1983_2011_Height_To_NA | COORDINATEOPERATION["NAD_1983_2011_Heig |
| | _Height_IFT_CONUS_GEOID18 | VD88_Height_IFT_CONUS_GEOID18",GEOGC | ht_To_NAVD88_Height_IFT_CONUS_GEOID18",SO |
| | | S["GCS_NAD_1983_2011",DATUM["D_NAD_ | URCECRS[VERTCRS["NAD_1983_2011",DYNAMIC[F |
| | | 1983_2011",SPHEROID["GRS_1980",6378137 | RAMEEPOCH[2010.0],MODEL["HTDP"]],DATUM[" |
| | | .0,298.257222101]],PRIMEM["Greenwich",0. | D_NAD_1983_2011",ELLIPSOID["GRS_1980",6378 |
| | | 0],UNIT["Degree",0.0174532925199433]],VE | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | RTCS["NAD_1983_2011",DATUM["D_NAD_19 | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | 83_2011",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["NAVD88_height_(ftIntl)",VDATUM["Nort |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | h_American_Vertical_Datum_1988"],CS[vertical,1] |
| | | ter",1.0]],VERTCS["NAVD88_height_(ftIntl)",V | ,AXIS["Gravity-related height |
| | | DATUM["North_American_Vertical_Datum_1 | (H)",up,LENGTHUNIT["Foot",0.3048]]]],INTERPOLA |
| | | 988"],PARAMETER["Vertical_Shift",0.0],PARA | TIONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNA |
| | | METER["Direction",1.0],UNIT["Foot",0.3048]] | MIC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DAT |
| | | ,VTMETHOD["GEOID"],PARAMETER["Dataset | UM["D_NAD_1983_2011",ELLIPSOID["GRS_1980", |
| | | _g2018u0",0.0],OPERATIONACCURACY[0.013 | 6378137.0,298.257222101,LENGTHUNIT["Meter", |
| | | 9]] | 1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degr |
| | | | ee",0.0174532925199433]],CS[ellipsoidal,2],AXIS[" |
| | | | Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2018u0"],OPERATIONACCURACY[0.0139]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110112 | NAD83(CSRS)_epoch2010_Height_To_ | VERTTRAN["NAD83(CSRS)_epoch2010_Heigh | COORDINATEOPERATION["NAD83(CSRS)_epoch20 |
| | CGVD2013(CGG2013a)_Height | t_To_CGVD2013(CGG2013a)_Height",GEOGC | 10_Height_To_CGVD2013(CGG2013a)_Height",SO |
| | | S["GCS_North_American_1983_CSRS",DATU | URCECRS[VERTCRS["North_American_1983_CSRS" |
| | | M["D_North_American_1983_CSRS",SPHEROI | ,DATUM["D_North_American_1983_CSRS",ELLIPS |
| | | D["GRS_1980",6378137.0,298.257222101]],P | OID["GRS_1980",6378137.0,298.257222101,LENG |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | THUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoi |
| | | 74532925199433]],VERTCS["North_American | dal height |
| | | _1983_CSRS",DATUM["D_North_American_1 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 983_CSRS",SPHEROID["GRS_1980",6378137.0 | ERTCRS["CGVD2013_CGG2013a_height",VDATUM |
| | | ,298.257222101]],PARAMETER["Vertical_Shif | ["Canadian_Geodetic_Vertical_Datum_of_2013_C |
| | | t",0.0],PARAMETER["Direction",1.0],UNIT["M | GG2013a"],CS[vertical,1],AXIS["Gravity-related |
| | | eter",1.0]],VERTCS["CGVD2013_CGG2013a_h | height |
| | | eight",VDATUM["Canadian_Geodetic_Vertica | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | I_Datum_of_2013_CGG2013a"],PARAMETER[| ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | |],PARAMETER["Interpolation_Type",30.0],PA | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | RAMETER["Dataset_CGG2013an83",0.0],OPE | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | RATIONACCURACY[0.03]] | CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013an83"],OPERATION |
| | | | ACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|--------------------------------------------|-----------------------------------------------------|
| 110113 | NAD83(CSRS)_epoch2010_Height_To_ | VERTTRAN["NAD83(CSRS)_epoch2010_Heigh | COORDINATEOPERATION["NAD83(CSRS)_epoch20 |
| | CGVD2013(CGG2013)_Height | t_To_CGVD2013(CGG2013)_Height",GEOGCS | 10_Height_To_CGVD2013(CGG2013)_Height",SOU |
| | | ["GCS_North_American_1983_CSRS",DATUM | RCECRS[VERTCRS["North_American_1983_CSRS", |
| | | ["D_North_American_1983_CSRS",SPHEROID | DATUM["D_North_American_1983_CSRS",ELLIPSO |
| | | ["GRS_1980",6378137.0,298.257222101]],PRI | ID["GRS_1980",6378137.0,298.257222101,LENGT |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | HUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoid |
| | | 4532925199433]],VERTCS["North_American_ | al height |
| | | 1983_CSRS",DATUM["D_North_American_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 83_CSRS",SPHEROID["GRS_1980",6378137.0, | ERTCRS["CGVD2013_height",VDATUM["Canadian_ |
| | | 298.257222101]],PARAMETER["Vertical_Shift | Geodetic_Vertical_Datum_of_2013"],CS[vertical,1 |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me |],AXIS["Gravity-related height |
| | | ter",1.0]],VERTCS["CGVD2013_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["Canadian_Geodetic_Vertical_Datum_of | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | _2013"],PARAMETER["Vertical_Shift",0.0],PA | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | |],VTMETHOD["GEOID"],PARAMETER["Interpo | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | lation_Type",30.0],PARAMETER["Dataset_CG | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | G2013n83",0.0],OPERATIONACCURACY[0.03]] | CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CGG2013n83"],OPERATIONA |
| | | | CCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|--------------------------------------------|------------------------------------------------------|
| 110114 | NAD83(CSRS)v6_Height_To_CGVD28_ | VERTTRAN["NAD83(CSRS)v6_Height_To_CGV | COORDINATEOPERATION["NAD83(CSRS)v6_Height |
| | Height_HT2 | D28_Height_HT2",GEOGCS["NAD83(CSRS)v6" | _To_CGVD28_Height_HT2",SOURCECRS[VERTCRS[|
| | | ,DATUM["North_American_Datum_of_1983_ | "NAD83(CSRS)v6",DATUM["North_American_Datu |
| | | (CSRS)_version_6",SPHEROID["GRS_1980",63 | m_of_1983_(CSRS)_version_6",ELLIPSOID["GRS_1 |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | |]],VERTCS["NAD83(CSRS)v6",DATUM["North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_Datum_of_1983_(CSRS)_version_6 | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | ["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0]],VERTCS["CGVD_1928",VDATUM["Canadia | ONCRS[GEOGCRS["NAD83(CSRS)v6",DATUM["Nort |
| | | n_Geodetic_Vertical_Datum_of_1928"],PARA | h_American_Datum_of_1983_(CSRS)_version_6", |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | GEOID"],PARAMETER["Interpolation_Type",3 | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | 0.0],PARAMETER["Dataset_HT2_2010v70",0. |],CS[ellipsoidal,2],AXIS["Latitude |
| | | 0],OPERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_2010v70"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|-------------------------------------------------------|
| 110115 | NAD83(CSRS)_epoch2010_Height_To_ | VERTTRAN["NAD83(CSRS)_epoch2010_Heigh | COORDINATEOPERATION["NAD83(CSRS)_epoch20 |
| | CGVD28_Height_HT2 | t_To_CGVD28_Height_HT2",GEOGCS["GCS_N | 10_Height_To_CGVD28_Height_HT2",SOURCECRS |
| | | orth_American_1983_CSRS",DATUM["D_Nort | [VERTCRS["North_American_1983_CSRS",DATUM[|
| | | h_American_1983_CSRS",SPHEROID["GRS_19 | "D_North_American_1983_CSRS",ELLIPSOID["GRS |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 99433]],VERTCS["North_American_1983_CSR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | S",DATUM["D_North_American_1983_CSRS", | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ["Gravity-related height |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VERTCS["CGVD_1928",VDATUM["Canadian_ | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | Geodetic_Vertical_Datum_of_1928"],PARAM | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["G | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | EOID"],PARAMETER["Interpolation_Type",30. | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | 0],PARAMETER["Dataset_HT2_2010v70",0.0], | CS[ellipsoidal,2],AXIS["Latitude |
| | | OPERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_2010v70"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|-------------------------------------------------------|
| 110116 | NAD83(CSRS)_epoch2002_Height_To_ | VERTTRAN["NAD83(CSRS)_epoch2002_Heigh | COORDINATEOPERATION["NAD83(CSRS)_epoch20 |
| | CGVD28_Height_HT2 | t_To_CGVD28_Height_HT2",GEOGCS["GCS_N | 02_Height_To_CGVD28_Height_HT2",SOURCECRS |
| | | orth_American_1983_CSRS",DATUM["D_Nort | [VERTCRS["North_American_1983_CSRS",DATUM[|
| | | h_American_1983_CSRS",SPHEROID["GRS_19 | "D_North_American_1983_CSRS",ELLIPSOID["GRS |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 99433]],VERTCS["North_American_1983_CSR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | S",DATUM["D_North_American_1983_CSRS", | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ["Gravity-related height |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VERTCS["CGVD_1928",VDATUM["Canadian_ | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | Geodetic_Vertical_Datum_of_1928"],PARAM | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["G | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | EOID"],PARAMETER["Interpolation_Type",30. | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | 0],PARAMETER["Dataset_HT2_2002v70",0.0], | CS[ellipsoidal,2],AXIS["Latitude |
| | | OPERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_2002v70"],OPERATION |
| | | | ACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|-------------------------------------------------------|
| 110117 | NAD83(CSRS)_epoch1997_Height_To_ | VERTTRAN["NAD83(CSRS)_epoch1997_Heigh | COORDINATEOPERATION["NAD83(CSRS)_epoch19 |
| | CGVD28_Height_HT2 | t_To_CGVD28_Height_HT2",GEOGCS["GCS_N | 97_Height_To_CGVD28_Height_HT2",SOURCECRS |
| | | orth_American_1983_CSRS",DATUM["D_Nort | [VERTCRS["North_American_1983_CSRS",DATUM[|
| | | h_American_1983_CSRS",SPHEROID["GRS_19 | "D_North_American_1983_CSRS",ELLIPSOID["GRS |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 99433]],VERTCS["North_American_1983_CSR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | S",DATUM["D_North_American_1983_CSRS", | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ["Gravity-related height |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VERTCS["CGVD_1928",VDATUM["Canadian_ | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | Geodetic_Vertical_Datum_of_1928"],PARAM | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["G | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | EOID"],PARAMETER["Interpolation_Type",30. | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | 0],PARAMETER["Dataset_HT2_1997",0.0],OP | CS[ellipsoidal,2],AXIS["Latitude |
| | | ERATIONACCURACY[0.05]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["HT2_1997"],OPERATIONACC |
| | | | URACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|--------------------------------------------|---------------------------------------------------|
| 110118 | CGVD2013(CGG2013a)_epoch2010_H | VERTTRAN["CGVD2013(CGG2013a)_epoch20 | COORDINATEOPERATION["CGVD2013(CGG2013a) |
| | eight_To_CGVD28_Height_NAD83(CS | 10_Height_To_CGVD28_Height_NAD83(CSRS | _epoch2010_Height_To_CGVD28_Height_NAD83(|
| | RS)v6 |)v6",GEOGCS["NAD83(CSRS)v6",DATUM["Nor | CSRS)v6",SOURCECRS[VERTCRS["CGVD2013_CGG2 |
| | | th_American_Datum_of_1983_(CSRS)_versio | 013a_height",VDATUM["Canadian_Geodetic_Verti |
| | | n_6",SPHEROID["GRS_1980",6378137.0,298. | cal_Datum_of_2013_CGG2013a"],CS[vertical,1],A |
| | | 257222101]],PRIMEM["Greenwich",0.0],UNIT | XIS["Gravity-related height |
| | | ["Degree",0.0174532925199433]],VERTCS["C | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | GVD2013_CGG2013a_height",VDATUM["Can | VERTCRS["CGVD_1928",VDATUM["Canadian_Geo |
| | | adian_Geodetic_Vertical_Datum_of_2013_C | detic_Vertical_Datum_of_1928"],CS[vertical,1],AXI |
| | | GG2013a"],PARAMETER["Vertical_Shift",0.0], | S["Gravity-related height |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0]],VERTCS["CGVD_1928",VDATUM["Canadia | ONCRS[GEOGCRS["NAD83(CSRS)v6",DATUM["Nort |
| | | n_Geodetic_Vertical_Datum_of_1928"],PARA | h_American_Datum_of_1983_(CSRS)_version_6", |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | Vertical_Offset_with_Grid"],PARAMETER["Int | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | erpolation_Type",30.0],PARAMETER["Dataset |],CS[ellipsoidal,2],AXIS["Latitude |
| | | _HT2_2010v70_CGG2013a",0.0],OPERATION | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ACCURACY[0.06]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETER["Interpolation_Type",30.0,SC |
| | | | ALEUNIT["Unity",1.0]],PARAMETERFILE["HT2_201 |
| | | | 0v70_CGG2013a"],OPERATIONACCURACY[0.06]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|---------------------------------------------|---------------------------------------------------|
| 110119 | CGVD2013(CGG2013a)_epoch2010_H | VERTTRAN["CGVD2013(CGG2013a)_epoch20 | COORDINATEOPERATION["CGVD2013(CGG2013a) |
| | eight_To_CGVD28_Height_NAD83(CS | 10_Height_To_CGVD28_Height_NAD83(CSRS | _epoch2010_Height_To_CGVD28_Height_NAD83(|
| | RS) |)",GEOGCS["GCS_North_American_1983_CSR | CSRS)",SOURCECRS[VERTCRS["CGVD2013_CGG201 |
| | | S",DATUM["D_North_American_1983_CSRS", | 3a_height",VDATUM["Canadian_Geodetic_Vertica |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | I_Datum_of_2013_CGG2013a"],CS[vertical,1],AXIS |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | ["Gravity-related height |
| | | ee",0.0174532925199433]],VERTCS["CGVD20 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 13_CGG2013a_height",VDATUM["Canadian_ | VERTCRS["CGVD_1928",VDATUM["Canadian_Geo |
| | | Geodetic_Vertical_Datum_of_2013_CGG201 | detic_Vertical_Datum_of_1928"],CS[vertical,1],AXI |
| | | 3a"],PARAMETER["Vertical_Shift",0.0],PARA | S["Gravity-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["CGVD_1928",VDATUM["Canadian_Ge | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | odetic_Vertical_Datum_of_1928"],PARAMET | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["Ver | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | tical_Offset_with_Grid"],PARAMETER["Interp | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | olation_Type",30.0],PARAMETER["Dataset_H | CS[ellipsoidal,2],AXIS["Latitude |
| | | T2_2010v70_CGG2013a",0.0],OPERATIONAC | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | CURACY[0.06]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETER["Interpolation_Type",30.0,SC |
| | | | ALEUNIT["Unity",1.0]],PARAMETERFILE["HT2_201 |
| | | | 0v70_CGG2013a"],OPERATIONACCURACY[0.06]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|---------------------------------------------|---------------------------------------------------|
| 110120 | CGVD2013(CGG2013a)_epoch2002_H | VERTTRAN["CGVD2013(CGG2013a)_epoch20 | COORDINATEOPERATION["CGVD2013(CGG2013a) |
| | eight_To_CGVD28_Height_NAD83(CS | 02_Height_To_CGVD28_Height_NAD83(CSRS | _epoch2002_Height_To_CGVD28_Height_NAD83(|
| | RS) |)",GEOGCS["GCS_North_American_1983_CSR | CSRS)",SOURCECRS[VERTCRS["CGVD2013_CGG201 |
| | | S",DATUM["D_North_American_1983_CSRS", | 3a_height",VDATUM["Canadian_Geodetic_Vertica |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | I_Datum_of_2013_CGG2013a"],CS[vertical,1],AXIS |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | ["Gravity-related height |
| | | ee",0.0174532925199433]],VERTCS["CGVD20 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 13_CGG2013a_height",VDATUM["Canadian_ | VERTCRS["CGVD_1928",VDATUM["Canadian_Geo |
| | | Geodetic_Vertical_Datum_of_2013_CGG201 | detic_Vertical_Datum_of_1928"],CS[vertical,1],AXI |
| | | 3a"],PARAMETER["Vertical_Shift",0.0],PARA | S["Gravity-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["CGVD_1928",VDATUM["Canadian_Ge | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | odetic_Vertical_Datum_of_1928"],PARAMET | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["Ver | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | tical_Offset_with_Grid"],PARAMETER["Interp | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | olation_Type",30.0],PARAMETER["Dataset_H | CS[ellipsoidal,2],AXIS["Latitude |
| | | T2_2002v70_CGG2013a",0.0],OPERATIONAC | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | CURACY[0.061]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETER["Interpolation_Type",30.0,SC |
| | | | ALEUNIT["Unity",1.0]],PARAMETERFILE["HT2_200 |
| | | | 2v70_CGG2013a"],OPERATIONACCURACY[0.061]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|---------------------------------------------|---------------------------------------------------|
| 110121 | CGVD2013(CGG2013a)_epoch1997_H | VERTTRAN["CGVD2013(CGG2013a)_epoch19 | COORDINATEOPERATION["CGVD2013(CGG2013a) |
| | eight_To_CGVD28_Height_NAD83(CS | 97_Height_To_CGVD28_Height_NAD83(CSRS | _epoch1997_Height_To_CGVD28_Height_NAD83(|
| | RS) |)",GEOGCS["GCS_North_American_1983_CSR | CSRS)",SOURCECRS[VERTCRS["CGVD2013_CGG201 |
| | | S",DATUM["D_North_American_1983_CSRS", | 3a_height",VDATUM["Canadian_Geodetic_Vertica |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | I_Datum_of_2013_CGG2013a"],CS[vertical,1],AXIS |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | ["Gravity-related height |
| | | ee",0.0174532925199433]],VERTCS["CGVD20 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 13_CGG2013a_height",VDATUM["Canadian_ | VERTCRS["CGVD_1928",VDATUM["Canadian_Geo |
| | | Geodetic_Vertical_Datum_of_2013_CGG201 | detic_Vertical_Datum_of_1928"],CS[vertical,1],AXI |
| | | 3a"],PARAMETER["Vertical_Shift",0.0],PARA | S["Gravity-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["CGVD_1928",VDATUM["Canadian_Ge | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | odetic_Vertical_Datum_of_1928"],PARAMET | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["Ver | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | tical_Offset_with_Grid"],PARAMETER["Interp | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | olation_Type",30.0],PARAMETER["Dataset_H | CS[ellipsoidal,2],AXIS["Latitude |
| | | T2_1997_CGG2013a",0.0],OPERATIONACCUR | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ACY[0.062]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["Vertical_Offset_with |
| | | | _Grid"],PARAMETER["Interpolation_Type",30.0,SC |
| | | | ALEUNIT["Unity",1.0]],PARAMETERFILE["HT2_199 |
| | | | 7_CGG2013a"],OPERATIONACCURACY[0.062]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|--------------------------------------------|---------------------------------------------------|
| 110126 | ETRS89_To_LHN95_Height_CHGeo200 | VERTTRAN["ETRS89_To_LHN95_Height_CHG | COORDINATEOPERATION["ETRS89_To_LHN95_Hei |
| | 4 | eo2004",GEOGCS["GCS_ETRS_1989",DATUM[| ght_CHGeo2004",SOURCECRS[VERTCRS["ETRS_19 |
| | | "D_ETRS_1989",SPHEROID["GRS_1980",6378 | 89",DATUM["D_ETRS_1989",ELLIPSOID["GRS_198 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["ETRS_1989",DATUM["D_ETRS_1989 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | ERTCRS["LHN95",VDATUM["Landeshohennetz_19 |
| | | 222101]],PARAMETER["Vertical_Shift",0.0],P | 95"],CS[vertical,1],AXIS["Gravity-related height |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0]],VERTCS["LHN95",VDATUM["Landeshohen | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | netz_1995"],PARAMETER["Vertical_Shift",0.0 | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 1.0]],VTMETHOD["GEOID"],PARAMETER["Inte | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | rpolation_Type",30.0],PARAMETER["Dataset_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | chgeo2004_ETRS",0.0],OPERATIONACCURAC | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | Y[0.03]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_ETRS"],OPERATI |
| | | | ONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|--------------------------------------------|---------------------------------------------------|
| 110127 | ETRF93_To_LHN95_Height_CHGeo200 | VERTTRAN["ETRF93_To_LHN95_Height_CHG | COORDINATEOPERATION["ETRF93_To_LHN95_Hei |
| | 4 | eo2004",GEOGCS["ETRF93",DATUM["Europe | ght_CHGeo2004",SOURCECRS[VERTCRS["ETRF93", |
| | | an_Terrestrial_Reference_Frame_1993",SPH | DYNAMIC[FRAMEEPOCH[1989.0],MODEL["NNR- |
| | | EROID["GRS_1980",6378137.0,298.25722210 | NUVEL1A"]],DATUM["European_Terrestrial_Refer |
| | | 1]],PRIMEM["Greenwich",0.0],UNIT["Degree" | ence_Frame_1993",ELLIPSOID["GRS_1980",63781 |
| | | ,0.0174532925199433]],VERTCS["ETRF93",DA | 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], |
| | | TUM["European_Terrestrial_Reference_Fram | CS[vertical,1],AXIS["Ellipsoidal height |
| | | e_1993",SPHEROID["GRS_1980",6378137.0,2 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 98.257222101]],PARAMETER["Vertical_Shift", | ERTCRS["LHN95",VDATUM["Landeshohennetz_19 |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | 95"],CS[vertical,1],AXIS["Gravity-related height |
| | | er",1.0]],VERTCS["LHN95",VDATUM["Landesh | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ohennetz_1995"],PARAMETER["Vertical_Shift | ONCRS[GEOGCRS["ETRF93",DYNAMIC[FRAMEEPO |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | CH[1989.0],MODEL["NNR- |
| | | ter",1.0]],VTMETHOD["GEOID"],PARAMETER[| NUVEL1A"]],DATUM["European_Terrestrial_Refer |
| | | "Interpolation_Type",30.0],PARAMETER["Dat | ence_Frame_1993",ELLIPSOID["GRS_1980",63781 |
| | | aset_chgeo2004_ETRS",0.0],OPERATIONACC | 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], |
| | | URACY[0.03]] | PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],CS[ellipsoidal,2],AXIS["Latitu |
| | | | de (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_ETRS"],OPERATI |
| | | | ONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|----------------------------------------------------|
| 110128 | WGS_1984_To_LHN95_Height_CHGeo | VERTTRAN["WGS_1984_To_LHN95_Height_C | COORDINATEOPERATION["WGS_1984_To_LHN95 |
| | 2004 | HGeo2004",GEOGCS["GCS_WGS_1984",DAT | _Height_CHGeo2004",SOURCECRS[VERTCRS["WGS |
| | | UM["D_WGS_1984",SPHEROID["WGS_1984", | _1984",DYNAMIC[FRAMEEPOCH[1990.5],MODEL[" |
| | | 6378137.0,298.257223563]],PRIMEM["Green | AM0- |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 33]],VERTCS["WGS_1984",DATUM["D_WGS_ | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | 1984",SPHEROID["WGS_1984",6378137.0,29 | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 8.257223563]],PARAMETER["Vertical_Shift",0 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | ERTCRS["LHN95",VDATUM["Landeshohennetz_19 |
| | | ",1.0]],VERTCS["LHN95",VDATUM["Landesho | 95"],CS[vertical,1],AXIS["Gravity-related height |
| | | hennetz_1995"],PARAMETER["Vertical_Shift" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ,0.0],PARAMETER["Direction",1.0],UNIT["Met | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | er",1.0]],VTMETHOD["GEOID"],PARAMETER[" | AMEEPOCH[1990.5],MODEL["AM0- |
| | | Interpolation_Type",30.0],PARAMETER["Data | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | set_chgeo2004_ETRS",0.0],OPERATIONACCU | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | RACY[0.05]] | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_ETRS"],OPERATI |
| | | | ONACCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110129 | ETRS89_to_Baltic_1957_Height_1_SK | VERTTRAN["ETRS89_to_Baltic_1957_Height_ 1_SK",GEOGCS["GCS_ETRS_1989",DATUM["D _ETRS_1989",SPHEROID["GRS_1980",637813 7.0,298.257222101]],PRIMEM["Greenwich",0 .0],UNIT["Degree",0.0174532925199433]],VE RTCS["ETRS_1989",DATUM["D_ETRS_1989",S PHEROID["GRS_1980",6378137.0,298.257222 101]],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",1.0],UNIT["Meter",1.0]],V ERTCS["Baltic_1957_height",VDATUM["Baltic _1957"],PARAMETER["Vertical_Shift",0.0],PA RAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset _Slovakia_ETRS89h_to_Baltic1957",0.0],OPER ATIONACCURACY[0.03]] | COORDINATEOPERATION["ETRS89_to_Baltic_1957 _Height_1_SK",SOURCECRS[VERTCRS["ETRS_1989 ",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980", 6378137.0,298.257222101,LENGTHUNIT["Meter", 1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Baltic_1957_height",VDATUM["Baltic_19 57"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["Slovakia_ETRS89h_to_Baltic1957"],OPERAT IONACCURACY[0.03]] |
| 110130 | ETRS89_to_EVRF2007_Height_1_SK | VERTTRAN["ETRS89_to_EVRF2007_Height_1 _SK",GEOGCS["GCS_ETRS_1989",DATUM["D_ ETRS_1989",SPHEROID["GRS_1980",6378137. 0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VER TCS["ETRS_1989",DATUM["D_ETRS_1989",SP HEROID["GRS_1980",6378137.0,298.2572221 01]],PARAMETER["Vertical_Shift",0.0],PARA METER["Direction",1.0],UNIT["Meter",1.0]],V ERTCS["EVRF_2007",VDATUM["European_Ve rtical_Reference_Frame_2007"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction", 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_Slovakia_ETRS89h_t o_EVRF2007",0.0],OPERATIONACCURACY[0.0 3]] | COORDINATEOPERATION["ETRS89_to_EVRF2007_ Height_1_SK",SOURCECRS[VERTCRS["ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EVRF_2007",VDATUM["European_Vertical_Reference_Frame_2007"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["Slovakia_ETRS89h_to_EVRF2007"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|--------------------------------------------------|
| 110131 | NAD_1983_Height_To_NAVD88_Dept | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | h_CONUS_GEOID12B | Depth_CONUS_GEOID12B",GEOGCS["GCS_N | NAVD88_Depth_CONUS_GEOID12B",SOURCECRS[|
| | | orth_American_1983",DATUM["D_North_Am | VERTCRS["NAD_1983",DATUM["D_North_America |
| | | erican_1983",SPHEROID["GRS_1980",637813 | n_1983",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | .0],UNIT["Degree",0.0174532925199433]],VE |],AXIS["Ellipsoidal height |
| | | RTCS["NAD_1983",DATUM["D_North_Americ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | an_1983",SPHEROID["GRS_1980",6378137.0, | ERTCRS["NAVD88_depth",VDATUM["North_Ameri |
| | | 298.257222101]],PARAMETER["Vertical_Shift | can_Vertical_Datum_1988"],CS[vertical,1],AXIS["G |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | ravity-related height |
| | | ter",1.0]],VERTCS["NAVD88_depth",VDATUM | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | ["North_American_Vertical_Datum_1988"],P | ATIONCRS[GEOGCRS["GCS_North_American_1983 |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ",DATUM["D_North_American_1983",ELLIPSOID[" |
| | | "Direction",- | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | IT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLE |
| | |],PARAMETER["Dataset_g2012bu0",0.0],OPE | UNIT["Degree",0.0174532925199433]],CS[ellipsoi |
| | | RATIONACCURACY[0.017]] | dal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|--------------------------------------------------|
| 110132 | NAD_1983_Height_To_NAVD88_Dept | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | h_Alaska_GEOID12B_Height | Depth_Alaska_GEOID12B_Height",GEOGCS[" | NAVD88_Depth_Alaska_GEOID12B_Height",SOUR |
| | | GCS_North_American_1983",DATUM["D_Nor | CECRS[VERTCRS["NAD_1983",DATUM["D_North_A |
| | | th_American_1983",SPHEROID["GRS_1980",6 | merican_1983",ELLIPSOID["GRS_1980",6378137.0, |
| | | 378137.0,298.257222101]],PRIMEM["Green | 298.257222101,LENGTHUNIT["Meter",1.0]]],CS[ve |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | rtical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["NAD_1983",DATUM["D_North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_1983",SPHEROID["GRS_1980",637 | ERTCRS["NAVD88_depth",VDATUM["North_Ameri |
| | | 8137.0,298.257222101]],PARAMETER["Vertic | can_Vertical_Datum_1988"],CS[vertical,1],AXIS["G |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ravity-related height |
| | | NIT["Meter",1.0]],VERTCS["NAVD88_depth", | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | VDATUM["North_American_Vertical_Datum_ | ATIONCRS[GEOGCRS["GCS_North_American_1983 |
| | | 1988"],PARAMETER["Vertical_Shift",0.0],PAR | ",DATUM["D_North_American_1983",ELLIPSOID[" |
| | | AMETER["Direction",- | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | IT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLE |
| | |],PARAMETER["Dataset_g2012ba0",0.0],OPE | UNIT["Degree",0.0174532925199433]],CS[ellipsoi |
| | | RATIONACCURACY[0.017]] | dal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|--------------------------------------------------|
| 110133 | NAD_1983_Height_To_NAVD88_Dept | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | h_Hawaii_GEOID12B_Height | Depth_Hawaii_GEOID12B_Height",GEOGCS[" | NAVD88_Depth_Hawaii_GEOID12B_Height",SOUR |
| | | GCS_North_American_1983",DATUM["D_Nor | CECRS[VERTCRS["NAD_1983",DATUM["D_North_A |
| | | th_American_1983",SPHEROID["GRS_1980",6 | merican_1983",ELLIPSOID["GRS_1980",6378137.0, |
| | | 378137.0,298.257222101]],PRIMEM["Green | 298.257222101,LENGTHUNIT["Meter",1.0]]],CS[ve |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | rtical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["NAD_1983",DATUM["D_North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_1983",SPHEROID["GRS_1980",637 | ERTCRS["NAVD88_depth",VDATUM["North_Ameri |
| | | 8137.0,298.257222101]],PARAMETER["Vertic | can_Vertical_Datum_1988"],CS[vertical,1],AXIS["G |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ravity-related height |
| | | NIT["Meter",1.0]],VERTCS["NAVD88_depth", | (H)",down,LENGTHUNIT["Meter",1.0]]]],INTERPOL |
| | | VDATUM["North_American_Vertical_Datum_ | ATIONCRS[GEOGCRS["GCS_North_American_1983 |
| | | 1988"],PARAMETER["Vertical_Shift",0.0],PAR | ",DATUM["D_North_American_1983",ELLIPSOID[" |
| | | AMETER["Direction",- | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | 1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID" | IT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLE |
| | |],PARAMETER["Dataset_g2012bh0",0.0],OPE | UNIT["Degree",0.0174532925199433]],CS[ellipsoi |
| | | RATIONACCURACY[0.017]] | dal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bh0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|-------------------------------------------------|
| 110134 | NAD_1983_Height_To_NAVD88_Heig | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | ht_USFT_CONUS_GEOID12B | Height_USFT_CONUS_GEOID12B",GEOGCS[" | NAVD88_Height_USFT_CONUS_GEOID12B",SOUR |
| | | GCS_North_American_1983",DATUM["D_Nor | CECRS[VERTCRS["NAD_1983",DATUM["D_North_A |
| | | th_American_1983",SPHEROID["GRS_1980",6 | merican_1983",ELLIPSOID["GRS_1980",6378137.0, |
| | | 378137.0,298.257222101]],PRIMEM["Green | 298.257222101,LENGTHUNIT["Meter",1.0]]],CS[ve |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | rtical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["NAD_1983",DATUM["D_North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_1983",SPHEROID["GRS_1980",637 | ERTCRS["NAVD88_height_(ftUS)",VDATUM["North |
| | | 8137.0,298.257222101]],PARAMETER["Vertic | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | AXIS["Gravity-related height |
| | | NIT["Meter",1.0]],VERTCS["NAVD88_height_(| (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ftUS)",VDATUM["North_American_Vertical_D | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_North |
| | | atum_1988"],PARAMETER["Vertical_Shift",0. | _American_1983",DATUM["D_North_American_1 |
| | | 0],PARAMETER["Direction",1.0],UNIT["Foot_ | 983",ELLIPSOID["GRS_1980",6378137.0,298.25722 |
| | | US",0.3048006096012192]],VTMETHOD["GE | 2101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Green |
| | | OID"],PARAMETER["Dataset_g2012bu0",0.0], | wich",0.0,ANGLEUNIT["Degree",0.0174532925199 |
| | | OPERATIONACCURACY[0.017]] | 433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 110135 | NAD_1983_Height_To_NAVD88_Heig | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | ht_USFT_Alaska_GEOID12B_Height | Height_USFT_Alaska_GEOID12B_Height",GEO | NAVD88_Height_USFT_Alaska_GEOID12B_Height" |
| | | GCS["GCS_North_American_1983",DATUM[" | ,SOURCECRS[VERTCRS["NAD_1983",DATUM["D_N |
| | | D_North_American_1983",SPHEROID["GRS_1 | orth_American_1983",ELLIPSOID["GRS_1980",637 |
| | | 980",6378137.0,298.257222101]],PRIMEM[" | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 5199433]],VERTCS["NAD_1983",DATUM["D_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | North_American_1983",SPHEROID["GRS_198 | ERTCRS["NAVD88_height_(ftUS)",VDATUM["North |
| | | 0",6378137.0,298.257222101]],PARAMETER[| _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | AXIS["Gravity-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["NAVD88_he | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ight_(ftUS)",VDATUM["North_American_Vert | 192]]],INTERPOLATIONCRS[GEOGCRS["GCS_North |
| | | ical_Datum_1988"],PARAMETER["Vertical_Sh | _American_1983",DATUM["D_North_American_1 |
| | | ift",0.0],PARAMETER["Direction",1.0],UNIT["F | 983",ELLIPSOID["GRS_1980",6378137.0,298.25722 |
| | | oot_US",0.3048006096012192]],VTMETHOD[| 2101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Green |
| | | "GEOID"],PARAMETER["Dataset_g2012ba0",0 | wich",0.0,ANGLEUNIT["Degree",0.0174532925199 |
| | | .0],OPERATIONACCURACY[0.017]] | 433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|-------------------------------------------------|
| 110136 | NAD_1983_Height_To_NAVD88_Dept | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | h_USFT_CONUS_GEOID12B | Depth_USFT_CONUS_GEOID12B",GEOGCS["G | NAVD88_Depth_USFT_CONUS_GEOID12B",SOURC |
| | | CS_North_American_1983",DATUM["D_Nort | ECRS[VERTCRS["NAD_1983",DATUM["D_North_A |
| | | h_American_1983",SPHEROID["GRS_1980",6 | merican_1983",ELLIPSOID["GRS_1980",6378137.0, |
| | | 378137.0,298.257222101]],PRIMEM["Green | 298.257222101,LENGTHUNIT["Meter",1.0]]],CS[ve |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | rtical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["NAD_1983",DATUM["D_North_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | American_1983",SPHEROID["GRS_1980",637 | ERTCRS["NAVD88_depth_(ftUS)",VDATUM["North |
| | | 8137.0,298.257222101]],PARAMETER["Vertic | _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | AXIS["Gravity-related height |
| | | NIT["Meter",1.0]],VERTCS["NAVD88_depth_(f | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | tUS)",VDATUM["North_American_Vertical_D | 012192]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | atum_1988"],PARAMETER["Vertical_Shift",0. | orth_American_1983",DATUM["D_North_America |
| | | 0],PARAMETER["Direction",- | n_1983",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | 7222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gr |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | eenwich",0.0,ANGLEUNIT["Degree",0.0174532925 |
| | | g2012bu0",0.0],OPERATIONACCURACY[0.017 | 199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|-------------------------------------------------|
| 110137 | NAD_1983_Height_To_NAVD88_Dept | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | h_USFT_Alaska_GEOID12B_Height | Depth_USFT_Alaska_GEOID12B_Height",GEO | NAVD88_Depth_USFT_Alaska_GEOID12B_Height", |
| | | GCS["GCS_North_American_1983",DATUM[" | SOURCECRS[VERTCRS["NAD_1983",DATUM["D_N |
| | | D_North_American_1983",SPHEROID["GRS_1 | orth_American_1983",ELLIPSOID["GRS_1980",637 |
| | | 980",6378137.0,298.257222101]],PRIMEM[" | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 |]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 5199433]],VERTCS["NAD_1983",DATUM["D_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | North_American_1983",SPHEROID["GRS_198 | ERTCRS["NAVD88_depth_(ftUS)",VDATUM["North |
| | | 0",6378137.0,298.257222101]],PARAMETER[| _American_Vertical_Datum_1988"],CS[vertical,1], |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | AXIS["Gravity-related height |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["NAVD88_de | (H)",down,LENGTHUNIT["Foot_US",0.3048006096 |
| | | pth_(ftUS)",VDATUM["North_American_Verti | 012192]]],INTERPOLATIONCRS[GEOGCRS["GCS_N |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | orth_American_1983",DATUM["D_North_America |
| | | ft",0.0],PARAMETER["Direction",- | n_1983",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | 7222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gr |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | eenwich",0.0,ANGLEUNIT["Degree",0.0174532925 |
| | | g2012ba0",0.0],OPERATIONACCURACY[0.017] | 199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | |] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012ba0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|-------------------------------------------------|
| 110138 | NAD_1983_Height_To_NAVD88_Heig | VERTTRAN["NAD_1983_Height_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_Height_To_ |
| | ht_IFT_CONUS_GEOID12B | Height_IFT_CONUS_GEOID12B",GEOGCS["GC | NAVD88_Height_IFT_CONUS_GEOID12B",SOURCE |
| | | S_North_American_1983",DATUM["D_North | CRS[VERTCRS["NAD_1983",DATUM["D_North_Am |
| | | _American_1983",SPHEROID["GRS_1980",63 | erican_1983",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | 98.257222101,LENGTHUNIT["Meter",1.0]]],CS[vert |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | ical,1],AXIS["Ellipsoidal height |
| | |]],VERTCS["NAD_1983",DATUM["D_North_A | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | merican_1983",SPHEROID["GRS_1980",6378 | ERTCRS["NAVD88_height_(ftIntl)",VDATUM["Nort |
| | | 137.0,298.257222101]],PARAMETER["Vertical | h_American_Vertical_Datum_1988"],CS[vertical,1] |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | ,AXIS["Gravity-related height |
| | | T["Meter",1.0]],VERTCS["NAVD88_height_(ftl | (H)",up,LENGTHUNIT["Foot",0.3048]]]],INTERPOLA |
| | | ntl)",VDATUM["North_American_Vertical_Da | TIONCRS[GEOGCRS["GCS_North_American_1983", |
| | | tum_1988"],PARAMETER["Vertical_Shift",0.0] | DATUM["D_North_American_1983",ELLIPSOID["G |
| | | ,PARAMETER["Direction",1.0],UNIT["Foot",0. | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | 3048]],VTMETHOD["GEOID"],PARAMETER["D | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | ataset_g2012bu0",0.0],OPERATIONACCURAC | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | Y[0.017]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bu0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|----------------------------------------------|----------------------------------------------------|
| 110139 | Estonia_1997_height_To_EVRF2007_h | VERTTRAN["Estonia_1997_height_To_EVRF2 | COORDINATEOPERATION["Estonia_1997_height_T |
| | eight_EGM96 | 007_height_EGM96",GEOGCS["GCS_Estonia_ | o_EVRF2007_height_EGM96",SOURCECRS[VERTCR |
| | | 1997",DATUM["D_Estonia_1997",SPHEROID[| S["Estonia_1997",DATUM["D_Estonia_1997",ELLIP |
| | | "GRS_1980",6378137.0,298.257222101]],PRI | SOID["GRS_1980",6378137.0,298.257222101,LEN |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | GTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellips |
| | | 4532925199433]],VERTCS["Estonia_1997",DA | oidal height |
| | | TUM["D_Estonia_1997",SPHEROID["GRS_198 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 0",6378137.0,298.257222101]],PARAMETER[| ERTCRS["EVRF_2007",VDATUM["European_Vertic |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | al_Reference_Frame_2007"],CS[vertical,1],AXIS["G |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2007" | ravity-related height |
| | | ,VDATUM["European_Vertical_Reference_Fra | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | me_2007"],PARAMETER["Vertical_Shift",0.0], | ONCRS[GEOGCRS["GCS_Estonia_1997",DATUM["D |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | _Estonia_1997",ELLIPSOID["GRS_1980",6378137.0 |
| | | .0]],VTMETHOD["EGM96"],PARAMETER["Dat | ,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIM |
| | | aset_egm96.grd",0.0],OPERATIONACCURACY[| EM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174 |
| | | 1.5]] | 532925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm96.grd"],OPERATIONACCURACY[1.5]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|----------------------------------------------|----------------------------------------------------|
| 110140 | Estonia_1997_height_To_EVRF2007_h | VERTTRAN["Estonia_1997_height_To_EVRF2 | COORDINATEOPERATION["Estonia_1997_height_T |
| | eight_EGM2008 | 007_height_EGM2008",GEOGCS["GCS_Estoni | o_EVRF2007_height_EGM2008",SOURCECRS[VERT |
| | | a_1997",DATUM["D_Estonia_1997",SPHEROI | CRS["Estonia_1997",DATUM["D_Estonia_1997",EL |
| | | D["GRS_1980",6378137.0,298.257222101]],P | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | ENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Elli |
| | | 74532925199433]],VERTCS["Estonia_1997",D | psoidal height |
| | | ATUM["D_Estonia_1997",SPHEROID["GRS_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 80",6378137.0,298.257222101]],PARAMETER | ERTCRS["EVRF_2007",VDATUM["European_Vertic |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | al_Reference_Frame_2007"],CS[vertical,1],AXIS["G |
| | | ,1.0],UNIT["Meter",1.0]],VERTCS["EVRF_2007 | ravity-related height |
| | | ",VDATUM["European_Vertical_Reference_Fr | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ame_2007"],PARAMETER["Vertical_Shift",0.0 | ONCRS[GEOGCRS["GCS_Estonia_1997",DATUM["D |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | _Estonia_1997",ELLIPSOID["GRS_1980",6378137.0 |
| | | 1.0]],VTMETHOD["EGM96"],PARAMETER["Da | ,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIM |
| | | taset_egm2008- | EM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174 |
| | | 1.grd",1.0],OPERATIONACCURACY[1.0]] | 532925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm2008- |
| | | | 1.grd"],OPERATIONACCURACY[1.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110141 | ETRS89_Height_To_Cascais_Height_G eodPT08 | VERTTRAN["ETRS89_Height_To_Cascais_Height_GeodPT08",GEOGCS["GCS_ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Cascais",VDATUM["Cascais"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_GeodPT08",0.0],OPERATIONACCURACY[0.04]] | COORDINATEOPERATION["ETRS89_Height_To_Cas cais_Height_GeodPT08",SOURCECRS[VERTCRS["ET RS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GR S_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Cascais",VDATUM["Cascais"],CS[vertical, 1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["GeodPT08"],OPERATIONACCURACY[0.04]] |
| 110142 | PTRA08_Height_To_Cais_das_Velas_H eight_GeodAz2014 | VERTTRAN["PTRA08_Height_To_Cais_das_Ve las_Height_GeodAz2014",GEOGCS["GCS_PTR A08",DATUM["D_PTRA08",SPHEROID["GRS_1 980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.017453292 5199433]],VERTCS["PTRA08",DATUM["D_PTR A08",SPHEROID["GRS_1980",6378137.0,298. 257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Cais_das_Velas_height",VDAT UM["Cais_das_Velas"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_GeodAz2014",0.0],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["PTRA08_Height_To_Cai s_das_Velas_Height_GeodAz2014",SOURCECRS[V ERTCRS["PTRA08",DATUM["D_PTRA08",ELLIPSOID ["GRS_1980",6378137.0,298.257222101,LENGTHU NIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Cais_das_Velas_height",VDATUM["Cais_das_Velas"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_PTRA08",DATUM["D_PTR A08",ELLIPSOID["GRS_1980",6378137.0,298.2572 22101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gree nwich",0.0,ANGLEUNIT["Degree",0.017453292519 9433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["GeodAz2014"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WKID 110143 | Name PTRA08_Height_To_Horta_Height_Ge odAz2014 | WKT1 VERTTRAN["PTRA08_Height_To_Horta_Heigh t_GeodAz2014",GEOGCS["GCS_PTRA08",DAT UM["D_PTRA08",SPHEROID["GRS_1980",637 8137.0,298.257222101]],PRIMEM["Greenwic h",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["PTRA08",DATUM["D_PTRA08",SPH EROID["GRS_1980",6378137.0,298.25722210 1]],PARAMETER["Vertical_Shift",0.0],PARAME TER["Direction",1.0],UNIT["Meter",1.0]],VERT CS["Horta_height",VDATUM["Horta"],PARAM | WKT2 COORDINATEOPERATION["PTRA08_Height_To_Ho rta_Height_GeodAz2014",SOURCECRS[VERTCRS[" PTRA08",DATUM["D_PTRA08",ELLIPSOID["GRS_19 80",6378137.0,298.257222101,LENGTHUNIT["Met er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Horta_height",VDATUM["Horta"],CS[vert ical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_PTRA08",DATUM["D_PTR |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_GeodAz2014", 0.0],OPERATIONACCURACY[0.1]] | A08",ELLIPSOID["GRS_1980",6378137.0,298.2572 22101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gree nwich",0.0,ANGLEUNIT["Degree",0.017453292519 9433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["GeodAz2014"],OPERATIONACCURACY[0.1]] |
| 110144 | PTRA08_Height_To_Cais_da_Madalen a_Height_GeodAz2014 | VERTTRAN["PTRA08_Height_To_Cais_da_Ma dalena_Height_GeodAz2014",GEOGCS["GCS_PTRA08",DATUM["D_PTRA08",SPHEROID["GR S_1980",6378137.0,298.257222101]],PRIME M["Greenwich",0.0],UNIT["Degree",0.017453 2925199433]],VERTCS["PTRA08",DATUM["D_PTRA08",SPHEROID["GRS_1980",6378137.0,2 98.257222101]],PARAMETER["Vertical_Shift", 0.0],PARAMETER["Direction",1.0],UNIT["Met er",1.0]],VERTCS["Cais_da_Madalena_height",VDATUM["Cais_da_Madalena"],PARAMETER ["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID "],PARAMETER["Dataset_GeodAz2014",0.0],OPERATIONACCURACY[0.1]] | COORDINATEOPERATION["PTRA08_Height_To_Cai s_da_Madalena_Height_GeodAz2014",SOURCECR S[VERTCRS["PTRA08",DATUM["D_PTRA08",ELLIPS OID["GRS_1980",6378137.0,298.257222101,LENG THUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoi dal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Cais_da_Madalena_height",VDATUM["Ca is_da_Madalena"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_PTRA08",DATUM["D_PTR A08",ELLIPSOID["GRS_1980",6378137.0,298.2572 22101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gree nwich",0.0,ANGLEUNIT["Degree",0.017453292519 9433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["GeodAz2014"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|---------------------------------------------------|
| 110145 | PTRA08_Height_To_Santa_Cruz_da_G | VERTTRAN["PTRA08_Height_To_Santa_Cruz_ | COORDINATEOPERATION["PTRA08_Height_To_Sa |
| | raciosa_Height_GeodAz2014 | da_Graciosa_Height_GeodAz2014",GEOGCS[" | nta_Cruz_da_Graciosa_Height_GeodAz2014",SOU |
| | | GCS_PTRA08",DATUM["D_PTRA08",SPHEROI | RCECRS[VERTCRS["PTRA08",DATUM["D_PTRA08", |
| | | D["GRS_1980",6378137.0,298.257222101]],P | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | 74532925199433]],VERTCS["PTRA08",DATU | llipsoidal height |
| | | M["D_PTRA08",SPHEROID["GRS_1980",6378 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 137.0,298.257222101]],PARAMETER["Vertical | ERTCRS["Santa_Cruz_da_Graciosa_height",VDATU |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | M["Santa_Cruz_da_Graciosa"],CS[vertical,1],AXIS[|
| | | T["Meter",1.0]],VERTCS["Santa_Cruz_da_Gra | "Gravity-related height |
| | | ciosa_height",VDATUM["Santa_Cruz_da_Gra | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ciosa"],PARAMETER["Vertical_Shift",0.0],PAR | ONCRS[GEOGCRS["GCS_PTRA08",DATUM["D_PTR |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | A08",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | 22101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gree |
| | | GeodAz2014",0.0],OPERATIONACCURACY[0.1 | nwich",0.0,ANGLEUNIT["Degree",0.017453292519 |
| | |]] | 9433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GeodAz2014"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------------|-----------------------------------------------|----------------------------------------------------|
| 110146 | PTRA08_Height_To_Cais_da_Figueirin | VERTTRAN["PTRA08_Height_To_Cais_da_Fig | COORDINATEOPERATION["PTRA08_Height_To_Cai |
| | ha- | ueirinha- | s_da_Figueirinha- |
| | Angra_do_Heroismo_Height_GeodAz2 | Angra_do_Heroismo_Height_GeodAz2014",G | Angra_do_Heroismo_Height_GeodAz2014",SOUR |
| | 014 | EOGCS["GCS_PTRA08",DATUM["D_PTRA08",S | CECRS[VERTCRS["PTRA08",DATUM["D_PTRA08",E |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | LLIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | ENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Elli |
| | | e",0.0174532925199433]],VERTCS["PTRA08", | psoidal height |
| | | DATUM["D_PTRA08",SPHEROID["GRS_1980", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 6378137.0,298.257222101]],PARAMETER["Ve | ERTCRS["Cais_da_Figueirinha- |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | Angra_do_Heroismo_height",VDATUM["Cais_da_F |
| | | ,UNIT["Meter",1.0]],VERTCS["Cais_da_Figueir | igueirinha- |
| | | inha- | Angra_do_Heroismo"],CS[vertical,1],AXIS["Gravity |
| | | Angra_do_Heroismo_height",VDATUM["Cais | -related height |
| | | _da_Figueirinha- | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Angra_do_Heroismo"],PARAMETER["Vertical | ONCRS[GEOGCRS["GCS_PTRA08",DATUM["D_PTR |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | A08",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | T["Meter",1.0]],VTMETHOD["GEOID"],PARA | 22101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gree |
| | | METER["Dataset_GeodAz2014",0.0],OPERATI | nwich",0.0,ANGLEUNIT["Degree",0.017453292519 |
| | | ONACCURACY[0.1]] | 9433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GeodAz2014"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|---------------------------------------------|----------------------------------------------------|
| 110147 | PTRA08_Height_To_Cais_da_Vila_do_ | VERTTRAN["PTRA08_Height_To_Cais_da_Vila | COORDINATEOPERATION["PTRA08_Height_To_Cai |
| | Porto_Height_GeodAz2014 | _do_Porto_Height_GeodAz2014",GEOGCS["G | s_da_Vila_do_Porto_Height_GeodAz2014",SOURC |
| | | CS_PTRA08",DATUM["D_PTRA08",SPHEROID[| ECRS[VERTCRS["PTRA08",DATUM["D_PTRA08",ELL |
| | | "GRS_1980",6378137.0,298.257222101]],PRI | IPSOID["GRS_1980",6378137.0,298.257222101,LE |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | NGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellip |
| | | 4532925199433]],VERTCS["PTRA08",DATUM[| soidal height |
| | | "D_PTRA08",SPHEROID["GRS_1980",6378137 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .0,298.257222101]],PARAMETER["Vertical_Sh | ERTCRS["Cais_da_Vila_do_Porto_height",VDATU |
| | | ift",0.0],PARAMETER["Direction",1.0],UNIT[" | M["Cais_da_Vila_do_Porto"],CS[vertical,1],AXIS[" |
| | | Meter",1.0]],VERTCS["Cais_da_Vila_do_Porto | Gravity-related height |
| | | _height",VDATUM["Cais_da_Vila_do_Porto"], | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | PARAMETER["Vertical_Shift",0.0],PARAMETE | ONCRS[GEOGCRS["GCS_PTRA08",DATUM["D_PTR |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VTMET | A08",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | HOD["GEOID"],PARAMETER["Dataset_GeodA | 22101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gree |
| | | z2014",0.0],OPERATIONACCURACY[0.1]] | nwich",0.0,ANGLEUNIT["Degree",0.017453292519 |
| | | | 9433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GeodAz2014"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|---------------------------------------------|-----------------------------------------------------|
| 110148 | PTRA08_Height_To_Ponta_Delgada_H | VERTTRAN["PTRA08_Height_To_Ponta_Delga | COORDINATEOPERATION["PTRA08_Height_To_Po |
| | eight_GeodAz2014 | da_Height_GeodAz2014",GEOGCS["GCS_PTR | nta_Delgada_Height_GeodAz2014",SOURCECRS[V |
| | | A08",DATUM["D_PTRA08",SPHEROID["GRS_1 | ERTCRS["PTRA08",DATUM["D_PTRA08",ELLIPSOID |
| | | 980",6378137.0,298.257222101]],PRIMEM[" | ["GRS_1980",6378137.0,298.257222101,LENGTHU |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | NIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 5199433]],VERTCS["PTRA08",DATUM["D_PTR | height |
| | | A08",SPHEROID["GRS_1980",6378137.0,298. | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 257222101]],PARAMETER["Vertical_Shift",0.0 | ERTCRS["Ponta_Delgada_height",VDATUM["Ponta |
| | |],PARAMETER["Direction",1.0],UNIT["Meter", | _Delgada"],CS[vertical,1],AXIS["Gravity-related |
| | | 1.0]],VERTCS["Ponta_Delgada_height",VDAT | height |
| | | UM["Ponta_Delgada"],PARAMETER["Vertical | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | ONCRS[GEOGCRS["GCS_PTRA08",DATUM["D_PTR |
| | | T["Meter",1.0]],VTMETHOD["GEOID"],PARA | A08",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | METER["Dataset_GeodAz2014",0.0],OPERATI | 22101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Gree |
| | | ONACCURACY[0.1]] | nwich",0.0,ANGLEUNIT["Degree",0.017453292519 |
| | | | 9433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["GeodAz2014"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------------|---------------------------------------------|---------------------------------------------------|
| 110149 | ETRS89_To_British_Isles_Height_OSG | VERTTRAN["ETRS89_To_British_Isles_Height_ | COORDINATEOPERATION["ETRS89_To_British_Isle |
| | M15_GB | OSGM15_GB",GEOGCS["GCS_ETRS_1989",DA | s_Height_OSGM15_GB",SOURCECRS[VERTCRS["ET |
| | | TUM["D_ETRS_1989",SPHEROID["GRS_1980", | RS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GR |
| | | 6378137.0,298.257222101]],PRIMEM["Green | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | wich",0.0],UNIT["Degree",0.01745329251994 | "Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 33]],VERTCS["ETRS_1989",DATUM["D_ETRS_ | height |
| | | 1989",SPHEROID["GRS_1980",6378137.0,298 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | ERTCRS["BI_height",VDATUM["British_Isles_heigh |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | t_ensemble"],CS[vertical,1],AXIS["Gravity-related |
| | | ",1.0]],VERTCS["BI_height",VDATUM["British_ | height |
| | | Isles_height_ensemble"],PARAMETER["Vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | AMETER["Interpolation_Type",20.0],PARAME | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TER["Dataset_OSGM15_Great_Britain",0.0],O | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | PERATIONACCURACY[0.02]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Great_Britain"],OP |
| | | | ERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110150 | ETRS89_To_British_Isles_Height_OSG | VERTTRAN["ETRS89_To_British_Isles_Height_ | COORDINATEOPERATION["ETRS89_To_British_Isle |
| | M15_Belfast | OSGM15_Belfast",GEOGCS["GCS_ETRS_1989 | s_Height_OSGM15_Belfast",SOURCECRS[VERTCRS |
| | | ",DATUM["D_ETRS_1989",SPHEROID["GRS_1 | ["ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID[|
| | | 980",6378137.0,298.257222101]],PRIMEM[" | "GRS_1980",6378137.0,298.257222101,LENGTHU |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | NIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 5199433]],VERTCS["ETRS_1989",DATUM["D_ | height |
| | | ETRS_1989",SPHEROID["GRS_1980",6378137. | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 0,298.257222101]],PARAMETER["Vertical_Shi | ERTCRS["BI_height",VDATUM["British_Isles_heigh |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | t_ensemble"],CS[vertical,1],AXIS["Gravity-related |
| | | Meter",1.0]],VERTCS["BI_height",VDATUM["B | height |
| | | ritish_Isles_height_ensemble"],PARAMETER[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | PARAMETER["Interpolation_Type",20.0],PAR | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | AMETER["Dataset_OSGM15_Belfast",0.0],OP | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ERATIONACCURACY[0.014]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",20.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["OSGM15_Belfast"],OPERATI |
| | | | ONACCURACY[0.014]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110151 | Name LKS_1992_To_Latvia_2000_Height_RI GA20 | VERTTRAN["LKS_1992_To_Latvia_2000_Height_RIGA20",GEOGCS["GCS_LKS_1992",DATUM["D_Latvia_1992",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["LKS_1992",DATUM["D_Latvia_1992",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Latvia_2000_(height)",VDATUM["Latvian_Height_System_2000"],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_RIGA20",0.0],OPERATIONACCURACY[0.025]] | COORDINATEOPERATION["LKS_1992_To_Latvia_2 000_Height_RIGA20",SOURCECRS[VERTCRS["LKS_1992",DATUM["D_Latvia_1992",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["Latvia_2000_(height)",VDATUM["Latvian_Height_System_2000"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_LKS_1992",DATUM["D_Latvia_1992",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["RIGA20"],OPERATIONACCURACY[0.025]] |
| 110152 | LKS_1992_To_Latvia_2000_Height_LV 14 | VERTTRAN["LKS_1992_To_Latvia_2000_Heig ht_LV14",GEOGCS["GCS_LKS_1992",DATUM["D_Latvia_1992",SPHEROID["GRS_1980",637 8137.0,298.257222101]],PRIMEM["Greenwic h",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["LKS_1992",DATUM["D_Latvia_199 2",SPHEROID["GRS_1980",6378137.0,298.25 7222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["Latvia_2000_(height)",VDATUM["Latvian_Height_System_2000"],PARAMETER ["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID "],PARAMETER["Dataset_LV14",0.0],OPERATI ONACCURACY[0.065]] | COORDINATEOPERATION["LKS_1992_To_Latvia_2 000_Height_LV14",SOURCECRS[VERTCRS["LKS_19 92",DATUM["D_Latvia_1992",ELLIPSOID["GRS_19 80",6378137.0,298.257222101,LENGTHUNIT["Met er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["Latvia_2000_(height)",VDATUM["Latvian _Height_System_2000"],CS[vertical,1],AXIS["Gravi ty-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_LKS_1992",DATUM["D_La tvia_1992",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["LV14"],OPERATIONACCURACY[0.065]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|---------------------------------------------------|
| 110153 | LKS_1994_To_LAS07_Height_LIT20G | VERTTRAN["LKS_1994_To_LAS07_Height_LIT | COORDINATEOPERATION["LKS_1994_To_LAS07_H |
| | | 20G",GEOGCS["GCS_LKS_1994",DATUM["D_L | eight_LIT20G",SOURCECRS[VERTCRS["LKS_1994", |
| | | ithuania_1994",SPHEROID["GRS_1980",6378 | DATUM["D_Lithuania_1994",ELLIPSOID["GRS_198 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["LKS_1994",DATUM["D_Lithuania_19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 94",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["LAS07_height",VDATUM["Lithuanian_Hei |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ght_System_2007"],CS[vertical,1],AXIS["Gravity- |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | related height |
| | | .0]],VERTCS["LAS07_height",VDATUM["Lithua | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | nian_Height_System_2007"],PARAMETER["V | ONCRS[GEOGCRS["GCS_LKS_1994",DATUM["D_Lit |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | huania_1994",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | 0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | 98.257222101,LENGTHUNIT["Meter",1.0]]],PRIME |
| | | PARAMETER["Dataset_LIT20G",0.0],OPERATI | M["Greenwich",0.0,ANGLEUNIT["Degree",0.01745 |
| | | ONACCURACY[0.03]] | 32925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["LIT20G"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------------|----------------------------------------------|---------------------------------------------------|
| 110154 | Estonia_1997_To_EH2000_Height_EST | VERTTRAN["Estonia_1997_To_EH2000_Heigh | COORDINATEOPERATION["Estonia_1997_To_EH20 |
| | -GEOID2017 | t_EST- | 00_Height_EST- |
| | | GEOID2017",GEOGCS["GCS_Estonia_1997",D | GEOID2017",SOURCECRS[VERTCRS["Estonia_1997 |
| | | ATUM["D_Estonia_1997",SPHEROID["GRS_19 | ",DATUM["D_Estonia_1997",ELLIPSOID["GRS_198 |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | 0",6378137.0,298.257222101,LENGTHUNIT["Mete |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 99433]],VERTCS["Estonia_1997",DATUM["D_ | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | Estonia_1997",SPHEROID["GRS_1980",63781 | ERTCRS["EH2000_height",VDATUM["Estonian_Hei |
| | | 37.0,298.257222101]],PARAMETER["Vertical_ | ght_System_2000"],CS[vertical,1],AXIS["Gravity- |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| related height |
| | | "Meter",1.0]],VERTCS["EH2000_height",VDAT | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | UM["Estonian_Height_System_2000"],PARA | ONCRS[GEOGCRS["GCS_Estonia_1997",DATUM["D |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | _Estonia_1997",ELLIPSOID["GRS_1980",6378137.0 |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | ,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIM |
| | | GEOID"],PARAMETER["Dataset_EST- | EM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174 |
| | | GEOID2017",0.0],OPERATIONACCURACY[0.00 | 532925199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | [5]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["EST- |
| | | | GEOID2017"],OPERATIONACCURACY[0.005]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|----------------------------------------------------|
| 110155 | CHTRF95_To_LN02_Height_CHGeo200 | VERTTRAN["CHTRF95_To_LN02_Height_CHG | COORDINATEOPERATION["CHTRF95_To_LN02_Hei |
| | 4_Htrans_2 | eo2004_Htrans_2",GEOGCS["GCS_Swiss_TRF | ght_CHGeo2004_Htrans_2",SOURCECRS[VERTCRS[|
| | | _1995",DATUM["D_Swiss_TRF_1995",SPHER | "Swiss_TRF_1995",DATUM["D_Swiss_TRF_1995",E |
| | | OID["GRS_1980",6378137.0,298.257222101]] | LLIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | ,PRIMEM["Greenwich",0.0],UNIT["Degree",0. | ENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Elli |
| | | 0174532925199433]],VERTCS["Swiss_TRF_19 | psoidal height |
| | | 95",DATUM["D_Swiss_TRF_1995",SPHEROID[| (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | "GRS_1980",6378137.0,298.257222101]],PAR | ERTCRS["LN_1902",VDATUM["Landesnivellement_ |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | 1902"],CS[vertical,1],AXIS["Gravity-related height |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["LN | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | _1902",VDATUM["Landesnivellement_1902"] | ONCRS[GEOGCRS["GCS_Swiss_TRF_1995",DATUM |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | ["D_Swiss_TRF_1995",ELLIPSOID["GRS_1980",637 |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VTMET | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | HOD["GEOID"],PARAMETER["Interpolation_T |]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree" |
| | | ype",30.0],PARAMETER["Dataset_chgeo2004 | ,0.0174532925199433]],CS[ellipsoidal,2],AXIS["Lati |
| | | _htrans_ETRS_corr",0.0],OPERATIONACCURA | tude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | CY[0.1]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_htrans_ETRS_cor |
| | | | r"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|----------------------------------------------------|
| 110156 | ETRS89_To_LN02_Height_CHGeo2004 | VERTTRAN["ETRS89_To_LN02_Height_CHGeo | COORDINATEOPERATION["ETRS89_To_LN02_Heig |
| | _Htrans_2 | 2004_Htrans_2",GEOGCS["GCS_ETRS_1989", | ht_CHGeo2004_Htrans_2",SOURCECRS[VERTCRS[" |
| | | DATUM["D_ETRS_1989",SPHEROID["GRS_19 | ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID[" |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | GRS_1980",6378137.0,298.257222101,LENGTHUN |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | IT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 99433]],VERTCS["ETRS_1989",DATUM["D_ET | height |
| | | RS_1989",SPHEROID["GRS_1980",6378137.0, | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 298.257222101]],PARAMETER["Vertical_Shift | ERTCRS["LN_1902",VDATUM["Landesnivellement_ |
| | | ",0.0],PARAMETER["Direction",1.0],UNIT["Me | 1902"],CS[vertical,1],AXIS["Gravity-related height |
| | | ter",1.0]],VERTCS["LN_1902",VDATUM["Land | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | esnivellement_1902"],PARAMETER["Vertical_ | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | "Meter",1.0]],VTMETHOD["GEOID"],PARAME | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TER["Interpolation_Type",30.0],PARAMETER[| Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | "Dataset_chgeo2004_htrans_ETRS_corr",0.0] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | ,OPERATIONACCURACY[0.1]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_htrans_ETRS_cor |
| | | | r"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|----------------------------------------------------|
| 110157 | ETRF93_To_LN02_Height_CHGeo2004 | VERTTRAN["ETRF93_To_LN02_Height_CHGeo | COORDINATEOPERATION["ETRF93_To_LN02_Heig |
| | _Htrans_2 | 2004_Htrans_2",GEOGCS["ETRF93",DATUM[" | ht_CHGeo2004_Htrans_2",SOURCECRS[VERTCRS[" |
| | | European_Terrestrial_Reference_Frame_199 | ETRF93",DYNAMIC[FRAMEEPOCH[1989.0],MODEL[|
| | | 3",SPHEROID["GRS_1980",6378137.0,298.25 | "NNR- |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | NUVEL1A"]],DATUM["European_Terrestrial_Refer |
| | | Degree",0.0174532925199433]],VERTCS["ETR | ence_Frame_1993",ELLIPSOID["GRS_1980",63781 |
| | | F93",DATUM["European_Terrestrial_Referen | 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], |
| | | ce_Frame_1993",SPHEROID["GRS_1980",637 | CS[vertical,1],AXIS["Ellipsoidal height |
| | | 8137.0,298.257222101]],PARAMETER["Vertic | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ERTCRS["LN_1902",VDATUM["Landesnivellement_ |
| | | NIT["Meter",1.0]],VERTCS["LN_1902",VDATU | 1902"],CS[vertical,1],AXIS["Gravity-related height |
| | | M["Landesnivellement_1902"],PARAMETER[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | ONCRS[GEOGCRS["ETRF93",DYNAMIC[FRAMEEPO |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | CH[1989.0],MODEL["NNR- |
| | | PARAMETER["Interpolation_Type",30.0],PAR | NUVEL1A"]],DATUM["European_Terrestrial_Refer |
| | | AMETER["Dataset_chgeo2004_htrans_ETRS_ | ence_Frame_1993",ELLIPSOID["GRS_1980",63781 |
| | | corr",0.0],OPERATIONACCURACY[0.1]] | 37.0,298.257222101,LENGTHUNIT["Meter",1.0]]], |
| | | | PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0. |
| | | | 0174532925199433]],CS[ellipsoidal,2],AXIS["Latitu |
| | | | de (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_htrans_ETRS_cor |
| | | | r"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|----------------------------------------------------|
| 110158 | WGS_1984_To_LN02_Height_CHGeo2 | VERTTRAN["WGS_1984_To_LN02_Height_CH | COORDINATEOPERATION["WGS_1984_To_LN02_ |
| | 004_Htrans_2 | Geo2004_Htrans_2",GEOGCS["GCS_WGS_19 | Height_CHGeo2004_Htrans_2",SOURCECRS[VERTC |
| | | 84",DATUM["D_WGS_1984",SPHEROID["WG | RS["WGS_1984",DYNAMIC[FRAMEEPOCH[1990.5], |
| | | S_1984",6378137.0,298.257223563]],PRIME | MODEL["AM0- |
| | | M["Greenwich",0.0],UNIT["Degree",0.017453 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 2925199433]],VERTCS["WGS_1984",DATUM[| 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | "D_WGS_1984",SPHEROID["WGS_1984",637 | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 8137.0,298.257223563]],PARAMETER["Vertic | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ERTCRS["LN_1902",VDATUM["Landesnivellement_ |
| | | NIT["Meter",1.0]],VERTCS["LN_1902",VDATU | 1902"],CS[vertical,1],AXIS["Gravity-related height |
| | | M["Landesnivellement_1902"],PARAMETER[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["GEOID"], | AMEEPOCH[1990.5],MODEL["AM0- |
| | | PARAMETER["Interpolation_Type",30.0],PAR | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | AMETER["Dataset_chgeo2004_htrans_ETRS_ | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | corr",0.0],OPERATIONACCURACY[0.12]] | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["chgeo2004_htrans_ETRS_cor |
| | | | r"],OPERATIONACCURACY[0.12]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|--------------------------------------------|-------------------------------------------------------|
| 110159 | CH1903+_To_LN02_Height_CHGeo200 | VERTTRAN["CH1903+_To_LN02_Height_CHG | COORDINATEOPERATION["CH1903+_To_LN02_Hei |
| | 4_Htrans | eo2004_Htrans",GEOGCS["GCS_CH1903+",D | ght_CHGeo2004_Htrans",SOURCECRS[VERTCRS["C |
| | | ATUM["D_CH1903+",SPHEROID["Bessel_184 | H1903+",DATUM["D_CH1903+",ELLIPSOID["Bessel |
| | | 1",6377397.155,299.1528128]],PRIMEM["Gre | _1841",6377397.155,299.1528128,LENGTHUNIT[" |
| | | enwich",0.0],UNIT["Degree",0.017453292519 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 9433]],VERTCS["CH1903+",DATUM["D_CH19 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 03+",SPHEROID["Bessel_1841",6377397.155, | ERTCRS["LN_1902",VDATUM["Landesnivellement_ |
| | | 299.1528128]],PARAMETER["Vertical_Shift",0 | 1902"],CS[vertical,1],AXIS["Gravity-related height |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ",1.0]],VERTCS["LN_1902",VDATUM["Landesn | ONCRS[GEOGCRS["GCS_CH1903+",DATUM["D_CH |
| | | ivellement_1902"],PARAMETER["Vertical_Shi | 1903+",ELLIPSOID["Bessel_1841",6377397.155,29 |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | 9.1528128,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ER["Interpolation_Type",30.0],PARAMETER[" | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | Dataset_CHGeo2004_Htrans_Bessel",0.0],OP | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | ERATIONACCURACY[0.1]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CHGeo2004_Htrans_Bessel"] |
| | | | ,OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|---------------------------------------------------|
| 110160 | CH1903+_To_LHN95_Height_CHGeo2 | VERTTRAN["CH1903+_To_LHN95_Height_CH | COORDINATEOPERATION["CH1903+_To_LHN95_H |
| | 004 | Geo2004",GEOGCS["GCS_CH1903+",DATUM[| eight_CHGeo2004",SOURCECRS[VERTCRS["CH190 |
| | | "D_CH1903+",SPHEROID["Bessel_1841",6377 | 3+",DATUM["D_CH1903+",ELLIPSOID["Bessel_184 |
| | | 397.155,299.1528128]],PRIMEM["Greenwich | 1",6377397.155,299.1528128,LENGTHUNIT["Mete |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | r",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["CH1903+",DATUM["D_CH1903+",SP | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | HEROID["Bessel_1841",6377397.155,299.152 | ERTCRS["LHN95",VDATUM["Landeshohennetz_19 |
| | | 8128]],PARAMETER["Vertical_Shift",0.0],PAR | 95"],CS[vertical,1],AXIS["Gravity-related height |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VERTCS["LHN95",VDATUM["Landeshohennet | ONCRS[GEOGCRS["GCS_CH1903+",DATUM["D_CH |
| | | z_1995"],PARAMETER["Vertical_Shift",0.0],P | 1903+",ELLIPSOID["Bessel_1841",6377397.155,29 |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | 9.1528128,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | 0]],VTMETHOD["GEOID"],PARAMETER["Inter | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | polation_Type",30.0],PARAMETER["Dataset_ | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | CHGeo2004_Bessel",0.0],OPERATIONACCURA | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | CY[0.03]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["CHGeo2004_Bessel"],OPERA |
| | | | TIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|--------------------------------------------------|
| 110161 | SWEREF99_To_RH70_Height_SWEN17 | VERTTRAN["SWEREF99_To_RH70_Height_SW | COORDINATEOPERATION["SWEREF99_To_RH70_H |
| | | EN17",GEOGCS["GCS_SWEREF99",DATUM["D | eight_SWEN17",SOURCECRS[VERTCRS["SWEREF99 |
| | | _SWEREF99",SPHEROID["GRS_1980",637813 | ",DATUM["D_SWEREF99",ELLIPSOID["GRS_1980", |
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | 6378137.0,298.257222101,LENGTHUNIT["Meter", |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | 1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | RTCS["SWEREF99",DATUM["D_SWEREF99",S | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | ERTCRS["RH70",VDATUM["Rikets_Hojdsystem_19 |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | 70"],CS[vertical,1],AXIS["Gravity-related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["RH70",VDATUM["Rikets_Hojdsystem | ONCRS[GEOGCRS["GCS_SWEREF99",DATUM["D_S |
| | | _1970"],PARAMETER["Vertical_Shift",0.0],PA | WEREF99",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | |],VTMETHOD["GEOID"],PARAMETER["Interpo | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | lation_Type",41.0],PARAMETER["Dataset_SW | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | EN17_RH70",0.0],OPERATIONACCURACY[0.03 | (lat)",north,ORDER[1]],AXIS["Longitude |
| | |]] | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",41.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["SWEN17_RH70"],OPERATIO |
| | | | NACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|--------------------------------------------|--------------------------------------------------|
| 110162 | SWEREF99_To_RH2000_Height_SWEN | VERTTRAN["SWEREF99_To_RH2000_Height_ | COORDINATEOPERATION["SWEREF99_To_RH2000 |
| | 17 | SWEN17",GEOGCS["GCS_SWEREF99",DATUM | _Height_SWEN17",SOURCECRS[VERTCRS["SWEREF |
| | | ["D_SWEREF99",SPHEROID["GRS_1980",6378 | 99",DATUM["D_SWEREF99",ELLIPSOID["GRS_1980 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | ",6378137.0,298.257222101,LENGTHUNIT["Meter |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], | ",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["SWEREF99",DATUM["D_SWEREF99" | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ,SPHEROID["GRS_1980",6378137.0,298.2572 | ERTCRS["RH2000",DYNAMIC[FRAMEEPOCH[2000. |
| | | 22101]],PARAMETER["Vertical_Shift",0.0],PA | 0],MODEL["Levelling- |
| | | RAMETER["Direction",1.0],UNIT["Meter",1.0] | based"]],VDATUM["Rikets_Hojdsystem_2000"],CS[|
| | |],VERTCS["RH2000",VDATUM["Rikets_Hojdsy | vertical,1],AXIS["Gravity-related height |
| | | stem_2000"],PARAMETER["Vertical_Shift",0. | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | ONCRS[GEOGCRS["GCS_SWEREF99",DATUM["D_S |
| | | ",1.0]],VTMETHOD["GEOID"],PARAMETER["In | WEREF99",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | terpolation_Type",41.0],PARAMETER["Datase | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | t_SWEN17_RH2000",0.0],OPERATIONACCUR | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ACY[0.03]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",41.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["SWEN17_RH2000"],OPERATI |
| | | | ONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------|----------------------------------------------|--------------------------------------------------|
| 110163 | ETRS89_To_DNN_Height | VERTTRAN["ETRS89_To_DNN_Height",GEOG | COORDINATEOPERATION["ETRS89_To_DNN_Heig |
| | | CS["GCS_ETRS_1989",DATUM["D_ETRS_1989 | ht",SOURCECRS[VERTCRS["ETRS_1989",DATUM["D |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | _ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,2 |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | 98.257222101,LENGTHUNIT["Meter",1.0]]],CS[vert |
| | | egree",0.0174532925199433]],VERTCS["ETRS | ical,1],AXIS["Ellipsoidal height |
| | | _1989",DATUM["D_ETRS_1989",SPHEROID[" | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | GRS_1980",6378137.0,298.257222101]],PAR | ERTCRS["Dansk_Normal_Nul",VDATUM["Dansk_N |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ormal_Nul"],CS[vertical,1],AXIS["Gravity-related |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["Da | height |
| | | nsk_Normal_Nul",VDATUM["Dansk_Normal_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | Nul"],PARAMETER["Vertical_Shift",0.0],PARA | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | TMETHOD["GEOID"],PARAMETER["Dataset_d | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | nn_2018",0.0],OPERATIONACCURACY[0.1]] | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["dnn_2018"],OPERATIONACCURACY[0.1]] |
| 110164 | ETRS89_To_DVR90_Height | VERTTRAN["ETRS89_To_DVR90_Height",GEO | COORDINATEOPERATION["ETRS89_To_DVR90_Hei |
| | | GCS["GCS_ETRS_1989",DATUM["D_ETRS_198 | ght",SOURCECRS[VERTCRS["ETRS_1989",DATUM[" |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0, |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | 298.257222101,LENGTHUNIT["Meter",1.0]]],CS[ve |
| | | Degree",0.0174532925199433]],VERTCS["ETR | rtical,1],AXIS["Ellipsoidal height |
| | | S_1989",DATUM["D_ETRS_1989",SPHEROID[| (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | "GRS_1980",6378137.0,298.257222101]],PAR | ERTCRS["DVR90",VDATUM["Dansk_Vertikal_Refer |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ence_1990_ensemble"],CS[vertical,1],AXIS["Gravit |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["DV | y-related height |
| | | R90",VDATUM["Dansk_Vertikal_Reference_1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 990_ensemble"],PARAMETER["Vertical_Shift" | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | ,0.0],PARAMETER["Direction",1.0],UNIT["Met | TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | er",1.0]],VTMETHOD["GEOID"],PARAMETER[" | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | Dataset_dvr90_2013",0.0],OPERATIONACCUR | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ACY[0.01]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["dvr90_2013"],OPERATIONACCURACY[0.01]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------|----------------------------------------------|---------------------------------------------------|
| 110165 | ETRS89_To_FVR09_Height | VERTTRAN["ETRS89_To_FVR09_Height",GEO | COORDINATEOPERATION["ETRS89_To_FVR09_Hei |
| | | GCS["GCS_ETRS_1989",DATUM["D_ETRS_198 | ght",SOURCECRS[VERTCRS["ETRS_1989",DATUM[" |
| | | 9",SPHEROID["GRS_1980",6378137.0,298.25 | D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0, |
| | | 7222101]],PRIMEM["Greenwich",0.0],UNIT[" | 298.257222101,LENGTHUNIT["Meter",1.0]]],CS[ve |
| | | Degree",0.0174532925199433]],VERTCS["ETR | rtical,1],AXIS["Ellipsoidal height |
| | | S_1989",DATUM["D_ETRS_1989",SPHEROID[| (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | "GRS_1980",6378137.0,298.257222101]],PAR | ERTCRS["FVR09_height", VDATUM["Faroe_Islands_ |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | Vertical_Reference_2009"],CS[vertical,1],AXIS["Gr |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["FV | avity-related height |
| | | R09_height",VDATUM["Faroe_Islands_Vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | al_Reference_2009"],PARAMETER["Vertical_ | ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E |
| | | Shift",0.0],PARAMETER["Direction",1.0],UNIT[| TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | "Meter",1.0]],VTMETHOD["GEOID"],PARAME | 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM[" |
| | | TER["Dataset_fvr09",0.0],OPERATIONACCUR | Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 |
| | | ACY[0.1]] | 25199433]],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["fvr09"],OPERATIONACCURACY[0.1]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110166 | Greenland_1996_To_GVR2000_Height | VERTTRAN["Greenland_1996_To_GVR2000_ | COORDINATEOPERATION["Greenland_1996_To_G |
| | | Height",GEOGCS["GCS_Greenland_1996",DA | VR2000_Height",SOURCECRS[VERTCRS["Greenlan |
| | | TUM["D_Greenland_1996",SPHEROID["GRS_ | d_1996",DATUM["D_Greenland_1996",ELLIPSOID[|
| | | 1980",6378137.0,298.257222101]],PRIMEM[" | "GRS_1980",6378137.0,298.257222101,LENGTHU |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | NIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | 5199433]],VERTCS["Greenland_1996",DATU | height |
| | | M["D_Greenland_1996",SPHEROID["GRS_198 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 0",6378137.0,298.257222101]],PARAMETER[| ERTCRS["GVR2000_height",VDATUM["Greenland_ |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | Vertical_Reference_2000"],CS[vertical,1],AXIS["Gr |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["GVR2000_h | avity-related height |
| | | eight",VDATUM["Greenland_Vertical_Refere | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | nce_2000"],PARAMETER["Vertical_Shift",0.0], | ONCRS[GEOGCRS["GCS_Greenland_1996",DATUM |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | ["D_Greenland_1996",ELLIPSOID["GRS_1980",637 |
| | | .0]],VTMETHOD["GEOID"],PARAMETER["Data | 8137.0,298.257222101,LENGTHUNIT["Meter",1.0] |
| | | set_gvr2000_2006",0.0],OPERATIONACCURA |]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree" |
| | | CY[0.15]] | ,0.0174532925199433]],CS[ellipsoidal,2],AXIS["Lati |
| | | | tude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["gvr2000_2006"],OPERATIONACCURACY[0.1 |
| | | | 5]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110167 | Greenland_1996_To_GVR2016_Height | VERTTRAN["Greenland_1996_To_GVR2016_ Height",GEOGCS["GCS_Greenland_1996",DA TUM["D_Greenland_1996",SPHEROID["GRS_ 1980",6378137.0,298.257222101]],PRIMEM[" Greenwich",0.0],UNIT["Degree",0.017453292 5199433]],VERTCS["Greenland_1996",DATU M["D_Greenland_1996",SPHEROID["GRS_198 0",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction", 1.0],UNIT["Meter",1.0]],VERTCS["GVR2016_h eight",VDATUM["Greenland_Vertical_Refere nce_2016"],PARAMETER["Vertical_Shift",0.0], PARAMETER["Direction",1.0],UNIT["Meter",1 .0]],VTMETHOD["GEOID"],PARAMETER["Data set_gvr2016_2016",0.0],OPERATIONACCURA CY[0.1]] | COORDINATEOPERATION["Greenland_1996_To_G VR2016_Height",SOURCECRS[VERTCRS["Greenland |
| 110168 | EGM96_Geoid_m_To_ftIntl | VERTTRAN["EGM96_Geoid_m_To_ftIntl",VER TCS["EGM96_Geoid",VDATUM["EGM96_Geoid"],PARAMETER["Vertical_Shift",0.0],PARAM ETER["Direction",1.0],UNIT["Meter",1.0]],VER TCS["EGM96_Geoid_(ftIntl)",VDATUM["EGM 96_Geoid"],PARAMETER["Vertical_Shift",0.0], PARAMETER["Direction",1.0],UNIT["Foot",0.3 048]],VTMETHOD["Unit_Change"],OPERATIO NACCURACY[0.0]] | COORDINATEOPERATION["EGM96_Geoid_m_To_f tIntl",SOURCECRS[VERTCRS["EGM96_Geoid",VDAT UM["EGM96_Geoid"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["EGM96_Geoid_(ftIntl)",VDATUM["EGM 96_Geoid"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot",0.3048]]]],METHOD[" Unit_Change"],OPERATIONACCURACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------|----------------------------------------------|--------------------------------------------------|
| 110169 | EGM96_Geoid_m_To_ftUS | VERTTRAN["EGM96_Geoid_m_To_ftUS",VER | COORDINATEOPERATION["EGM96_Geoid_m_To_f |
| | | TCS["EGM96_Geoid",VDATUM["EGM96_Geoi | tUS",SOURCECRS[VERTCRS["EGM96_Geoid",VDAT |
| | | d"],PARAMETER["Vertical_Shift",0.0],PARAM | UM["EGM96_Geoid"],CS[vertical,1],AXIS["Gravity- |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VER | related height |
| | | TCS["EGM96_Geoid_(ftUS)",VDATUM["EGM9 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | 6_Geoid"],PARAMETER["Vertical_Shift",0.0],P | VERTCRS["EGM96_Geoid_(ftUS)",VDATUM["EGM9 |
| | | ARAMETER["Direction",1.0],UNIT["Foot_US", | 6_Geoid"],CS[vertical,1],AXIS["Gravity-related |
| | | 0.3048006096012192]],VTMETHOD["Unit_Ch | height |
| | | ange"],OPERATIONACCURACY[0.0]] | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | | 192]]]],METHOD["Unit_Change"],OPERATIONACC |
| | | | URACY[0.0]] |
| 110170 | MSL_Hawaii_Height_m_To_ftUS | VERTTRAN["MSL_Hawaii_Height_m_To_ftUS | COORDINATEOPERATION["MSL_Hawaii_Height_m |
| | | ",VERTCS["MSL_Hawaii_height_(m)",VDATU | _To_ftUS",SOURCECRS[VERTCRS["MSL_Hawaii_hei |
| | | M["Mean_Sea_Level_Hawaii"],PARAMETER[" | ght_(m)",VDATUM["Mean_Sea_Level_Hawaii"],CS |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | [vertical,1],AXIS["Gravity-related height |
| | | .0],UNIT["Meter",1.0]],VERTCS["MSL_Hawaii_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | height_(ftUS)",VDATUM["Mean_Sea_Level_H | VERTCRS["MSL_Hawaii_height_(ftUS)",VDATUM[" |
| | | awaii"],PARAMETER["Vertical_Shift",0.0],PAR | Mean_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gra |
| | | AMETER["Direction",1.0],UNIT["Foot_US",0.3 | vity-related height |
| | | 048006096012192]],VTMETHOD["Unit_Chan | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ge"],OPERATIONACCURACY[0.0]] | 192]]]],METHOD["Unit_Change"],OPERATIONACC |
| | | | URACY[0.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|----------------------------------------------------|
| 110171 | NAD_1983_PA11_Height_To_MSL_Ha | VERTTRAN["NAD_1983_PA11_Height_To_MS | COORDINATEOPERATION["NAD_1983_PA11_Heig |
| | waii_Height_GEOID12B | L_Hawaii_Height_GEOID12B",GEOGCS["GCS_ | ht_To_MSL_Hawaii_Height_GEOID12B",SOURCEC |
| | | NAD_1983_PA11",DATUM["D_NAD_1983_PA | RS[VERTCRS["NAD_1983_PA11",DYNAMIC[FRAME |
| | | 11",SPHEROID["GRS_1980",6378137.0,298.2 | EPOCH[2012.4467],MODEL["HTDP"]],DATUM["D_ |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| NAD_1983_PA11",ELLIPSOID["GRS_1980",637813 |
| | | "Degree",0.0174532925199433]],VERTCS["N | 7.0,298.257222101,LENGTHUNIT["Meter",1.0]]],C |
| | | AD_1983_PA11",DATUM["D_NAD_1983_PA1 | S[vertical,1],AXIS["Ellipsoidal height |
| | | 1",SPHEROID["GRS_1980",6378137.0,298.25 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 7222101]],PARAMETER["Vertical_Shift",0.0],P | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | 0]],VERTCS["MSL_Hawaii_height_(m)",VDAT | related height |
| | | UM["Mean_Sea_Level_Hawaii"],PARAMETER | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | ONCRS[GEOGCRS["GCS_NAD_1983_PA11",DYNA |
| | | ,1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | "],PARAMETER["Dataset_g2012bh0",0.0],OPE | DATUM["D_NAD_1983_PA11",ELLIPSOID["GRS_19 |
| | | RATIONACCURACY[0.017]] | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2012bh0"],OPERATIONACCURACY[0.017]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110172 | NAD_1983_2011_To_NAVD88_Height | VERTTRAN["NAD_1983_2011_To_NAVD88_H | COORDINATEOPERATION["NAD_1983_2011_To_N |
| | _CONUS_GEOID09 | eight_CONUS_GEOID09",GEOGCS["GCS_NAD | AVD88_Height_CONUS_GEOID09",SOURCECRS[VE |
| | | _1983_2011",DATUM["D_NAD_1983_2011", | RTCRS["NAD_1983_2011",DYNAMIC[FRAMEEPOC |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | H[2010.0],MODEL["HTDP"]],DATUM["D_NAD_198 |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | 3_2011",ELLIPSOID["GRS_1980",6378137.0,298.25 |
| | | ee",0.0174532925199433]],VERTCS["NAD_19 | 7222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1 |
| | | 83_2011",DATUM["D_NAD_1983_2011",SPH |],AXIS["Ellipsoidal height |
| | | EROID["GRS_1980",6378137.0,298.25722210 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 1]],PARAMETER["Vertical_Shift",0.0],PARAME | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | TER["Direction",1.0],UNIT["Meter",1.0]],VERT | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | CS["NAVD_1988",VDATUM["North_American | ty-related height |
| | | _Vertical_Datum_1988"],PARAMETER["Vertic | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | al_Shift",0.0],PARAMETER["Direction",1.0],U | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | AMETER["Dataset_geoid09_conus",0.0],OPER | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | ATIONACCURACY[0.02]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid09_conus"],OPERATIONACCURACY[0. |
| | | | 02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110173 | NAD_1983_2011_To_NAVD88_Height | VERTTRAN["NAD_1983_2011_To_NAVD88_H | COORDINATEOPERATION["NAD_1983_2011_To_N |
| | _Alaska_GEOID09 | eight_Alaska_GEOID09",GEOGCS["GCS_NAD_ | AVD88_Height_Alaska_GEOID09",SOURCECRS[VER |
| | | 1983_2011",DATUM["D_NAD_1983_2011",S | TCRS["NAD_1983_2011",DYNAMIC[FRAMEEPOCH[|
| | | PHEROID["GRS_1980",6378137.0,298.257222 | 2010.0],MODEL["HTDP"]],DATUM["D_NAD_1983_ |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | 2011",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | e",0.0174532925199433]],VERTCS["NAD_198 | 22101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],A |
| | | 3_2011",DATUM["D_NAD_1983_2011",SPHE | XIS["Ellipsoidal height |
| | | ROID["GRS_1980",6378137.0,298.257222101 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | |]],PARAMETER["Vertical_Shift",0.0],PARAMET | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | S["NAVD_1988",VDATUM["North_American_ | ty-related height |
| | | Vertical_Datum_1988"],PARAMETER["Vertica | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | I_Shift",0.0],PARAMETER["Direction",1.0],UNI | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | T["Meter",1.0]],VTMETHOD["GEOID"],PARA | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | METER["Dataset_geoid09_ak",0.0],OPERATIO | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | NACCURACY[0.02]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid09_ak"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|----------------------------------------------------|
| 110174 | NAD_1983_PA11_To_MSL_Hawaii_He | VERTTRAN["NAD_1983_PA11_To_MSL_Hawa | COORDINATEOPERATION["NAD_1983_PA11_To_ |
| | ight_GEOID09 | ii_Height_GEOID09",GEOGCS["GCS_NAD_198 | MSL_Hawaii_Height_GEOID09",SOURCECRS[VERT |
| | | 3_PA11",DATUM["D_NAD_1983_PA11",SPHE | CRS["NAD_1983_PA11",DYNAMIC[FRAMEEPOCH[|
| | | ROID["GRS_1980",6378137.0,298.257222101 | 2012.4467],MODEL["HTDP"]],DATUM["D_NAD_19 |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | 83_PA11",ELLIPSOID["GRS_1980",6378137.0,298. |
| | | 0.0174532925199433]],VERTCS["NAD_1983_ | 257222101,LENGTHUNIT["Meter",1.0]]],CS[vertica |
| | | PA11",DATUM["D_NAD_1983_PA11",SPHER | I,1],AXIS["Ellipsoidal height |
| | | OID["GRS_1980",6378137.0,298.257222101]] | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ,PARAMETER["Vertical_Shift",0.0],PARAMETE | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | R["Direction",1.0],UNIT["Meter",1.0]],VERTCS | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | ["MSL_Hawaii_height_(m)",VDATUM["Mean_ | related height |
| | | Sea_Level_Hawaii"],PARAMETER["Vertical_Sh | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_PA11",DYNA |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | ER["Dataset_g2009h01",0.0],OPERATIONACC | DATUM["D_NAD_1983_PA11",ELLIPSOID["GRS_19 |
| | | URACY[0.02]] | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009h01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|----------------------------------------------------|
| 110175 | NAD_1983_PACP00_To_MSL_Hawaii_ | VERTTRAN["NAD_1983_PACP00_To_MSL_Ha | COORDINATEOPERATION["NAD_1983_PACP00_To |
| | Height_GEOID09 | waii_Height_GEOID09",GEOGCS["GCS_NAD_ | _MSL_Hawaii_Height_GEOID09",SOURCECRS[VER |
| | | 1983_PACP00",DATUM["D_NAD_1983_PACP | TCRS["NAD_1983_PACP00",DYNAMIC[FRAMEEPO |
| | | 00",SPHEROID["GRS_1980",6378137.0,298.2 | CH[1993.6205],MODEL["HTDP"]],DATUM["D_NAD |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| _1983_PACP00",ELLIPSOID["GRS_1980",6378137. |
| | | "Degree",0.0174532925199433]],VERTCS["N | 0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | AD_1983_PACP00",DATUM["D_NAD_1983_P | vertical,1],AXIS["Ellipsoidal height |
| | | ACP00",SPHEROID["GRS_1980",6378137.0,29 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | ",1.0]],VERTCS["MSL_Hawaii_height_(m)",VD | related height |
| | | ATUM["Mean_Sea_Level_Hawaii"],PARAMET | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ONCRS[GEOGCRS["GCS_NAD_1983_PACP00",DYN |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | AMIC[FRAMEEPOCH[1993.6205],MODEL["HTDP"]] |
| | | OID"],PARAMETER["Dataset_g2009h01",0.0], | ,DATUM["D_NAD_1983_PACP00",ELLIPSOID["GRS |
| | | OPERATIONACCURACY[0.02]] | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009h01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|------------------------------------------------------|
| 110176 | NAD_1983_HARN_To_MSL_Hawaii_H | VERTTRAN["NAD_1983_HARN_To_MSL_Haw | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | eight_GEOID09 | aii_Height_GEOID09",GEOGCS["GCS_North_A | MSL_Hawaii_Height_GEOID09",SOURCECRS[VERT |
| | | merican_1983_HARN",DATUM["D_North_Am | CRS["North_American_1983_HARN",DATUM["D_ |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | North_American_1983_HARN",ELLIPSOID["GRS_1 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["MSL_Hawaii_height_(m)",VDATUM[" | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | Mean_Sea_Level_Hawaii"],PARAMETER["Vert | ARN",DATUM["D_North_American_1983_HARN", |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g2009h01",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.02]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009h01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110177 | NAD_1983_2011_To_PRVD02_Height | VERTTRAN["NAD_1983_2011_To_PRVD02_H | COORDINATEOPERATION["NAD_1983_2011_To_P |
| | _GEOID09 | eight_GEOID09",GEOGCS["GCS_NAD_1983_2 | RVD02_Height_GEOID09",SOURCECRS[VERTCRS[" |
| | | 011",DATUM["D_NAD_1983_2011",SPHEROI | NAD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0 |
| | | D["GRS_1980",6378137.0,298.257222101]],P |],MODEL["HTDP"]],DATUM["D_NAD_1983_2011", |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | 74532925199433]],VERTCS["NAD_1983_2011 | ,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["E |
| | | ",DATUM["D_NAD_1983_2011",SPHEROID[" | llipsoidal height |
| | | GRS_1980",6378137.0,298.257222101]],PAR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ERTCRS["PRVD02_height",VDATUM["Puerto_Rico_ |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["PR | Vertical_Datum_of_2002"],CS[vertical,1],AXIS["Gr |
| | | VD02_height",VDATUM["Puerto_Rico_Vertic | avity-related height |
| | | al_Datum_of_2002"],PARAMETER["Vertical_S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | ER["Dataset_g2009p01",0.0],OPERATIONACC | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | URACY[0.02]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009p01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|----------------------------------------------|----------------------------------------------------|
| 110178 | NAD_1983_2011_To_VIVD09_Height_ | VERTTRAN["NAD_1983_2011_To_VIVD09_He | COORDINATEOPERATION["NAD_1983_2011_To_V |
| | GEOID09 | ight_GEOID09",GEOGCS["GCS_NAD_1983_20 | IVD09_Height_GEOID09",SOURCECRS[VERTCRS["N |
| | | 11",DATUM["D_NAD_1983_2011",SPHEROID | AD_1983_2011",DYNAMIC[FRAMEEPOCH[2010.0], |
| | | ["GRS_1980",6378137.0,298.257222101]],PRI | MODEL["HTDP"]],DATUM["D_NAD_1983_2011",E |
| | | MEM["Greenwich",0.0],UNIT["Degree",0.017 | LLIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | 4532925199433]],VERTCS["NAD_1983_2011" | ENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Elli |
| | | ,DATUM["D_NAD_1983_2011",SPHEROID["G | psoidal height |
| | | RS_1980",6378137.0,298.257222101]],PARA | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ERTCRS["VIVD09_height",VDATUM["Virgin_Islands |
| | | ection",1.0],UNIT["Meter",1.0]],VERTCS["VIV | _Vertical_Datum_of_2009"],CS[vertical,1],AXIS["G |
| | | D09_height",VDATUM["Virgin_Islands_Vertic | ravity-related height |
| | | al_Datum_of_2009"],PARAMETER["Vertical_S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | ER["Dataset_g2009p01",0.0],OPERATIONACC | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | URACY[0.02]] | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009p01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|--------------------------------------------------|
| 110179 | NAD_1983_PA11_To_ASVD02_Height | VERTTRAN["NAD_1983_PA11_To_ASVD02_H | COORDINATEOPERATION["NAD_1983_PA11_To_A |
| | _GEOID09 | eight_GEOID09",GEOGCS["GCS_NAD_1983_P | SVD02_Height_GEOID09",SOURCECRS[VERTCRS[" |
| | | A11",DATUM["D_NAD_1983_PA11",SPHEROI | NAD_1983_PA11",DYNAMIC[FRAMEEPOCH[2012. |
| | | D["GRS_1980",6378137.0,298.257222101]],P | 4467],MODEL["HTDP"]],DATUM["D_NAD_1983_P |
| | | RIMEM["Greenwich",0.0],UNIT["Degree",0.01 | A11",ELLIPSOID["GRS_1980",6378137.0,298.2572 |
| | | 74532925199433]],VERTCS["NAD_1983_PA1 | 22101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],A |
| | | 1",DATUM["D_NAD_1983_PA11",SPHEROID[" | XIS["Ellipsoidal height |
| | | GRS_1980",6378137.0,298.257222101]],PAR | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ERTCRS["ASVD02_height",VDATUM["American_Sa |
| | | irection",1.0],UNIT["Meter",1.0]],VERTCS["AS | moa_Vertical_Datum_of_2002"],CS[vertical,1],AXI |
| | | VD02_height",VDATUM["American_Samoa_V | S["Gravity-related height |
| | | ertical_Datum_of_2002"],PARAMETER["Verti | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | cal_Shift",0.0],PARAMETER["Direction",1.0],U | ONCRS[GEOGCRS["GCS_NAD_1983_PA11",DYNA |
| | | NIT["Meter",1.0]],VTMETHOD["GEOID"],PAR | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | AMETER["Dataset_g2009s01",0.0],OPERATIO | DATUM["D_NAD_1983_PA11",ELLIPSOID["GRS_19 |
| | | NACCURACY[0.02]] | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009s01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|--------------------------------------------------|
| 110180 | NAD_1983_PACP00_To_ASVD02_Heig | VERTTRAN["NAD_1983_PACP00_To_ASVD02 | COORDINATEOPERATION["NAD_1983_PACP00_To |
| | ht_GEOID09 | _Height_GEOID09",GEOGCS["GCS_NAD_1983 | _ASVD02_Height_GEOID09",SOURCECRS[VERTCRS |
| | | _PACP00",DATUM["D_NAD_1983_PACP00",S | ["NAD_1983_PACP00",DYNAMIC[FRAMEEPOCH[1 |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | 993.6205],MODEL["HTDP"]],DATUM["D_NAD_198 |
| | | 101]],PRIMEM["Greenwich",0.0],UNIT["Degre | 3_PACP00",ELLIPSOID["GRS_1980",6378137.0,298 |
| | | e",0.0174532925199433]],VERTCS["NAD_198 | .257222101,LENGTHUNIT["Meter",1.0]]],CS[vertic |
| | | 3_PACP00",DATUM["D_NAD_1983_PACP00", | al,1],AXIS["Ellipsoidal height |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 2101]],PARAMETER["Vertical_Shift",0.0],PAR | ERTCRS["ASVD02_height",VDATUM["American_Sa |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | moa_Vertical_Datum_of_2002"],CS[vertical,1],AXI |
| | | VERTCS["ASVD02_height",VDATUM["America | S["Gravity-related height |
| | | n_Samoa_Vertical_Datum_of_2002"],PARAM | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | ONCRS[GEOGCRS["GCS_NAD_1983_PACP00",DYN |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["G | AMIC[FRAMEEPOCH[1993.6205],MODEL["HTDP"]] |
| | | EOID"],PARAMETER["Dataset_g2009s01",0.0] | ,DATUM["D_NAD_1983_PACP00",ELLIPSOID["GRS |
| | | ,OPERATIONACCURACY[0.02]] | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009s01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 110181 | NAD_1983_MA11_To_GUVD04_Heigh | VERTTRAN["NAD_1983_MA11_To_GUVD04_ | COORDINATEOPERATION["NAD_1983_MA11_To_ |
| | t_GEOID09 | Height_GEOID09",GEOGCS["GCS_NAD_1983_ | GUVD04_Height_GEOID09",SOURCECRS[VERTCRS[|
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE | "NAD_1983_MA11",DYNAMIC[FRAMEEPOCH[201 |
| | | ROID["GRS_1980",6378137.0,298.257222101 | 2.4467],MODEL["HTDP"]],DATUM["D_NAD_1983_ |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | MA11",ELLIPSOID["GRS_1980",6378137.0,298.257 |
| | | 0.0174532925199433]],VERTCS["NAD_1983_ | 222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1], |
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE | AXIS["Ellipsoidal height |
| | | ROID["GRS_1980",6378137.0,298.257222101 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | |]],PARAMETER["Vertical_Shift",0.0],PARAMET | ERTCRS["GUVD04_height",VDATUM["Guam_Verti |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | cal_Datum_of_2004"],CS[vertical,1],AXIS["Gravity- |
| | | S["GUVD04_height",VDATUM["Guam_Vertica | related height |
| | | I_Datum_of_2004"],PARAMETER["Vertical_S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | ONCRS[GEOGCRS["GCS_NAD_1983_MA11",DYNA |
| | | Meter",1.0]],VTMETHOD["GEOID"],PARAMET | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | ER["Dataset_g2009g01",0.0],OPERATIONACC | DATUM["D_NAD_1983_MA11",ELLIPSOID["GRS_1 |
| | | URACY[0.02]] | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | | AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009g01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|---------------------------------------------------|
| 110182 | NAD_1983_MARP00_To_GUVD04_Hei | VERTTRAN["NAD_1983_MARP00_To_GUVD0 | COORDINATEOPERATION["NAD_1983_MARP00_T |
| | ght_GEOID09 | 4_Height_GEOID09",GEOGCS["GCS_NAD_198 | o_GUVD04_Height_GEOID09",SOURCECRS[VERTC |
| | | 3_MARP00",DATUM["D_NAD_1983_MARP00 | RS["NAD_1983_MARP00",DYNAMIC[FRAMEEPOC |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | H[1993.6205],MODEL["HTDP"]],DATUM["D_NAD_ |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | 1983_MARP00",ELLIPSOID["GRS_1980",6378137.0 |
| | | egree",0.0174532925199433]],VERTCS["NAD | ,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[v |
| | | _1983_MARP00",DATUM["D_NAD_1983_MA | ertical,1],AXIS["Ellipsoidal height |
| | | RP00",SPHEROID["GRS_1980",6378137.0,298 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | ERTCRS["GUVD04_height",VDATUM["Guam_Verti |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | cal_Datum_of_2004"],CS[vertical,1],AXIS["Gravity- |
| | | ",1.0]],VERTCS["GUVD04_height",VDATUM[" | related height |
| | | Guam_Vertical_Datum_of_2004"],PARAMETE | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | ONCRS[GEOGCRS["GCS_NAD_1983_MARP00",DY |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOI | NAMIC[FRAMEEPOCH[1993.6205],MODEL["HTDP" |
| | | D"],PARAMETER["Dataset_g2009g01",0.0],OP |]],DATUM["D_NAD_1983_MARP00",ELLIPSOID["G |
| | | ERATIONACCURACY[0.02]] | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | l,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009g01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|--------------------------------------------------|
| 110183 | NAD_1983_MA11_To_NMVD03_Heig | VERTTRAN["NAD_1983_MA11_To_NMVD03_ | COORDINATEOPERATION["NAD_1983_MA11_To_ |
| | ht_GEOID09 | Height_GEOID09",GEOGCS["GCS_NAD_1983_ | NMVD03_Height_GEOID09",SOURCECRS[VERTCRS |
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE | ["NAD_1983_MA11",DYNAMIC[FRAMEEPOCH[201 |
| | | ROID["GRS_1980",6378137.0,298.257222101 | 2.4467],MODEL["HTDP"]],DATUM["D_NAD_1983_ |
| | |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | MA11",ELLIPSOID["GRS_1980",6378137.0,298.257 |
| | | 0.0174532925199433]],VERTCS["NAD_1983_ | 222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1], |
| | | MA11",DATUM["D_NAD_1983_MA11",SPHE | AXIS["Ellipsoidal height |
| | | ROID["GRS_1980",6378137.0,298.257222101 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | |]],PARAMETER["Vertical_Shift",0.0],PARAMET | ERTCRS["NMVD03_height",VDATUM["Northern_ |
| | | ER["Direction",1.0],UNIT["Meter",1.0]],VERTC | Marianas_Vertical_Datum_of_2003"],CS[vertical,1 |
| | | S["NMVD03_height",VDATUM["Northern_Ma |],AXIS["Gravity-related height |
| | | rianas_Vertical_Datum_of_2003"],PARAMET | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ONCRS[GEOGCRS["GCS_NAD_1983_MA11",DYNA |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | OID"],PARAMETER["Dataset_g2009g01",0.0], | DATUM["D_NAD_1983_MA11",ELLIPSOID["GRS_1 |
| | | OPERATIONACCURACY[0.02]] | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | | | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | | AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009g01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|---------------------------------------------|-------------------------------------------------|
| 110184 | NAD_1983_MARP00_To_NMVD03_He | VERTTRAN["NAD_1983_MARP00_To_NMVD0 | COORDINATEOPERATION["NAD_1983_MARP00_T |
| | ight_GEOID09 | 3_Height_GEOID09",GEOGCS["GCS_NAD_198 | o_NMVD03_Height_GEOID09",SOURCECRS[VERTC |
| | | 3_MARP00",DATUM["D_NAD_1983_MARP00 | RS["NAD_1983_MARP00",DYNAMIC[FRAMEEPOC |
| | | ",SPHEROID["GRS_1980",6378137.0,298.257 | H[1993.6205],MODEL["HTDP"]],DATUM["D_NAD_ |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | 1983_MARP00",ELLIPSOID["GRS_1980",6378137.0 |
| | | egree",0.0174532925199433]],VERTCS["NAD | ,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[v |
| | | _1983_MARP00",DATUM["D_NAD_1983_MA | ertical,1],AXIS["Ellipsoidal height |
| | | RP00",SPHEROID["GRS_1980",6378137.0,298 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | ERTCRS["NMVD03_height",VDATUM["Northern_ |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | Marianas_Vertical_Datum_of_2003"],CS[vertical,1 |
| | | ",1.0]],VERTCS["NMVD03_height",VDATUM[" |],AXIS["Gravity-related height |
| | | Northern_Marianas_Vertical_Datum_of_200 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 3"],PARAMETER["Vertical_Shift",0.0],PARAM | ONCRS[GEOGCRS["GCS_NAD_1983_MARP00",DY |
| | | ETER["Direction",1.0],UNIT["Meter",1.0]],VT | NAMIC[FRAMEEPOCH[1993.6205],MODEL["HTDP" |
| | | METHOD["GEOID"],PARAMETER["Dataset_g2 |]],DATUM["D_NAD_1983_MARP00",ELLIPSOID["G |
| | | 009g01",0.0],OPERATIONACCURACY[0.02]] | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2009g01"],OPERATIONACCURACY[0.02]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|-----------------------------------------------|---------------------------------------------------|
| 110185 | NAD_1983_NSRS2007_To_NAVD88_H | VERTTRAN["NAD_1983_NSRS2007_To_NAVD | COORDINATEOPERATION["NAD_1983_NSRS2007_ |
| | eight_Alaska_GEOID06 | 88_Height_Alaska_GEOID06",GEOGCS["GCS_ | To_NAVD88_Height_Alaska_GEOID06",SOURCECR |
| | | NAD_1983_NSRS2007",DATUM["D_NAD_198 | S[VERTCRS["NAD_1983_NSRS2007",DATUM["D_N |
| | | 3_NSRS2007",SPHEROID["GRS_1980",637813 | AD_1983_NSRS2007",ELLIPSOID["GRS_1980",6378 |
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | 137.0,298.257222101,LENGTHUNIT["Meter",1.0]]] |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | ,CS[vertical,1],AXIS["Ellipsoidal height |
| | | RTCS["NAD_1983_NSRS2007",DATUM["D_NA | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | D_1983_NSRS2007",SPHEROID["GRS_1980",6 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 378137.0,298.257222101]],PARAMETER["Ver | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | ty-related height |
| | | UNIT["Meter",1.0]],VERTCS["NAVD_1988",VD | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ATUM["North_American_Vertical_Datum_19 | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | 88"],PARAMETER["Vertical_Shift",0.0],PARA | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | TMETHOD["GEOID"],PARAMETER["Dataset_g | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | eoid06_ak",0.0],OPERATIONACCURACY[0.024 | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | |]] | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid06_ak"],OPERATIONACCURACY[0.024 |
| | | | |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|---------------------------------------------------|
| 110186 | NAD_1983_NSRS2007_To_NAVD88_H | VERTTRAN["NAD_1983_NSRS2007_To_NAVD | COORDINATEOPERATION["NAD_1983_NSRS2007_ |
| | eight_CONUS_GEOID03 | 88_Height_CONUS_GEOID03",GEOGCS["GCS | To_NAVD88_Height_CONUS_GEOID03",SOURCEC |
| | | _NAD_1983_NSRS2007",DATUM["D_NAD_19 | RS[VERTCRS["NAD_1983_NSRS2007",DATUM["D_ |
| | | 83_NSRS2007",SPHEROID["GRS_1980",63781 | NAD_1983_NSRS2007",ELLIPSOID["GRS_1980",63 |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | 78137.0,298.257222101,LENGTHUNIT["Meter",1.0 |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V |]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | ERTCS["NAD_1983_NSRS2007",DATUM["D_N | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | AD_1983_NSRS2007",SPHEROID["GRS_1980" | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | ,6378137.0,298.257222101]],PARAMETER["V | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | ty-related height |
| | | 0],UNIT["Meter",1.0]],VERTCS["NAVD_1988", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VDATUM["North_American_Vertical_Datum_ | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | 1988"],PARAMETER["Vertical_Shift",0.0],PAR | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | VTMETHOD["GEOID"],PARAMETER["Dataset_ | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | geoid03_conus",0.0],OPERATIONACCURACY[| IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | 0.024]] | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid03_conus"],OPERATIONACCURACY[0. |
| | | | 024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|-------------------------------------------------------|
| 110187 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_Alaska_GEOID03 | Height_Alaska_GEOID03",GEOGCS["GCS_Nor | NAVD88_Height_Alaska_GEOID03",SOURCECRS[V |
| | | th_American_1983_HARN",DATUM["D_Nort | ERTCRS["North_American_1983_HARN",DATUM[" |
| | | h_American_1983_HARN",SPHEROID["GRS_1 | D_North_American_1983_HARN",ELLIPSOID["GRS |
| | | 980",6378137.0,298.257222101]],PRIMEM[" | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 5199433]],VERTCS["North_American_1983_H | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ARN",DATUM["D_North_American_1983_HA | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | RN",SPHEROID["GRS_1980",6378137.0,298.2 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ty-related height |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0]],VERTCS["NAVD_1988",VDATUM["North_ | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | American_Vertical_Datum_1988"],PARAMET | ARN",DATUM["D_North_American_1983_HARN", |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | OID"],PARAMETER["Dataset_geoid03_ak",0.0 | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | |],OPERATIONACCURACY[0.024]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid03_ak"],OPERATIONACCURACY[0.024 |
| | | | |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|----------------------------------------------------|
| 110188 | NAD_1983_PACP00_To_MSL_Hawaii_ | VERTTRAN["NAD_1983_PACP00_To_MSL_Ha | COORDINATEOPERATION["NAD_1983_PACP00_To |
| | Height_GEOID03 | waii_Height_GEOID03",GEOGCS["GCS_NAD_ | _MSL_Hawaii_Height_GEOID03",SOURCECRS[VER |
| | | 1983_PACP00",DATUM["D_NAD_1983_PACP | TCRS["NAD_1983_PACP00",DYNAMIC[FRAMEEPO |
| | | 00",SPHEROID["GRS_1980",6378137.0,298.2 | CH[1993.6205],MODEL["HTDP"]],DATUM["D_NAD |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| _1983_PACP00",ELLIPSOID["GRS_1980",6378137. |
| | | "Degree",0.0174532925199433]],VERTCS["N | 0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | AD_1983_PACP00",DATUM["D_NAD_1983_P | vertical,1],AXIS["Ellipsoidal height |
| | | ACP00",SPHEROID["GRS_1980",6378137.0,29 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | ",1.0]],VERTCS["MSL_Hawaii_height_(m)",VD | related height |
| | | ATUM["Mean_Sea_Level_Hawaii"],PARAMET | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ONCRS[GEOGCRS["GCS_NAD_1983_PACP00",DYN |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | AMIC[FRAMEEPOCH[1993.6205],MODEL["HTDP"]] |
| | | OID"],PARAMETER["Dataset_g2003h01",0.0], | ,DATUM["D_NAD_1983_PACP00",ELLIPSOID["GRS |
| | | OPERATIONACCURACY[0.024]] | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2003h01"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|------------------------------------------------------|
| 110189 | NAD_1983_HARN_To_MSL_Hawaii_H | VERTTRAN["NAD_1983_HARN_To_MSL_Haw | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | eight_GEOID03 | aii_Height_GEOID03",GEOGCS["GCS_North_A | MSL_Hawaii_Height_GEOID03",SOURCECRS[VERT |
| | | merican_1983_HARN",DATUM["D_North_Am | CRS["North_American_1983_HARN",DATUM["D_ |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | North_American_1983_HARN",ELLIPSOID["GRS_1 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["MSL_Hawaii_height_(m)",VDATUM[" | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | Mean_Sea_Level_Hawaii"],PARAMETER["Vert | ARN",DATUM["D_North_American_1983_HARN", |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g2003h01",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.024]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g2003h01"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|----------------------------------------------|---------------------------------------------------|
| 110190 | NAD_1983_FBN_To_NAVD88_Height_ | VERTTRAN["NAD_1983_FBN_To_NAVD88_He | COORDINATEOPERATION["NAD_1983_FBN_To_N |
| | CONUS_GEOID99 | ight_CONUS_GEOID99",GEOGCS["NAD_1983 | AVD88_Height_CONUS_GEOID99",SOURCECRS[VE |
| | | _(FBN)",DATUM["NAD_1983_(Federal_Base_ | RTCRS["NAD_1983_(FBN)",DATUM["NAD_1983_(F |
| | | Network)",SPHEROID["GRS_1980",6378137.0 | ederal_Base_Network)",ELLIPSOID["GRS_1980",63 |
| | | ,298.257222101]],PRIMEM["Greenwich",0.0], | 78137.0,298.257222101,LENGTHUNIT["Meter",1.0 |
| | | UNIT["Degree",0.0174532925199433]],VERT |]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | CS["NAD_1983_(FBN)",DATUM["NAD_1983_(| (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | Federal_Base_Network)",SPHEROID["GRS_19 | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 80",6378137.0,298.257222101]],PARAMETER | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | ty-related height |
| | | ,1.0],UNIT["Meter",1.0]],VERTCS["NAVD_198 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 8",VDATUM["North_American_Vertical_Datu | ONCRS[GEOGCRS["NAD_1983_(FBN)",DATUM["N |
| | | m_1988"],PARAMETER["Vertical_Shift",0.0],P | AD_1983_(Federal_Base_Network)",ELLIPSOID["G |
| | | ARAMETER["Direction",1.0],UNIT["Meter",1. | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | 0]],VTMETHOD["GEOID"],PARAMETER["Datas | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | et_geoid99_conus",0.0],OPERATIONACCURA | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | CY[0.046]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid99_conus"],OPERATIONACCURACY[0. |
| | | | 046]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|-------------------------------------------------------|
| 110191 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_CONUS_GEOID99 | Height_CONUS_GEOID99",GEOGCS["GCS_No | NAVD88_Height_CONUS_GEOID99",SOURCECRS[V |
| | | rth_American_1983_HARN",DATUM["D_Nort | ERTCRS["North_American_1983_HARN",DATUM[" |
| | | h_American_1983_HARN",SPHEROID["GRS_1 | D_North_American_1983_HARN",ELLIPSOID["GRS |
| | | 980",6378137.0,298.257222101]],PRIMEM[" | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 5199433]],VERTCS["North_American_1983_H | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ARN",DATUM["D_North_American_1983_HA | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | RN",SPHEROID["GRS_1980",6378137.0,298.2 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ty-related height |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0]],VERTCS["NAVD_1988",VDATUM["North_ | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | American_Vertical_Datum_1988"],PARAMET | ARN",DATUM["D_North_American_1983_HARN", |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | OID"],PARAMETER["Dataset_geoid99_conus" | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ,0.0],OPERATIONACCURACY[0.046]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid99_conus"],OPERATIONACCURACY[0. |
| | | | 046]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|---------------------------------------------|-------------------------------------------------------|
| 110192 | NAD_1983_HARN_To_NAVD88_Heigh | VERTTRAN["NAD_1983_HARN_To_NAVD88_ | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | t_Alaska_GEOID99 | Height_Alaska_GEOID99",GEOGCS["GCS_Nor | NAVD88_Height_Alaska_GEOID99",SOURCECRS[V |
| | | th_American_1983_HARN",DATUM["D_Nort | ERTCRS["North_American_1983_HARN",DATUM[" |
| | | h_American_1983_HARN",SPHEROID["GRS_1 | D_North_American_1983_HARN",ELLIPSOID["GRS |
| | | 980",6378137.0,298.257222101]],PRIMEM[" | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 5199433]],VERTCS["North_American_1983_H | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ARN",DATUM["D_North_American_1983_HA | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | RN",SPHEROID["GRS_1980",6378137.0,298.2 | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | ty-related height |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | .0]],VERTCS["NAVD_1988",VDATUM["North_ | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | American_Vertical_Datum_1988"],PARAMET | ARN",DATUM["D_North_American_1983_HARN", |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | OID"],PARAMETER["Dataset_geoid99_ak",0.0 | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | |],OPERATIONACCURACY[0.046]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid99_ak"],OPERATIONACCURACY[0.046 |
| | | | |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|----------------------------------------------------|
| 110193 | NAD_1983_PACP00_To_MSL_Hawaii_ | VERTTRAN["NAD_1983_PACP00_To_MSL_Ha | COORDINATEOPERATION["NAD_1983_PACP00_To |
| | Height_GEOID99 | waii_Height_GEOID99",GEOGCS["GCS_NAD_ | _MSL_Hawaii_Height_GEOID99",SOURCECRS[VER |
| | | 1983_PACP00",DATUM["D_NAD_1983_PACP | TCRS["NAD_1983_PACP00",DYNAMIC[FRAMEEPO |
| | | 00",SPHEROID["GRS_1980",6378137.0,298.2 | CH[1993.6205],MODEL["HTDP"]],DATUM["D_NAD |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| _1983_PACP00",ELLIPSOID["GRS_1980",6378137. |
| | | "Degree",0.0174532925199433]],VERTCS["N | 0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | AD_1983_PACP00",DATUM["D_NAD_1983_P | vertical,1],AXIS["Ellipsoidal height |
| | | ACP00",SPHEROID["GRS_1980",6378137.0,29 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 8.257222101]],PARAMETER["Vertical_Shift",0 | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | ",1.0]],VERTCS["MSL_Hawaii_height_(m)",VD | related height |
| | | ATUM["Mean_Sea_Level_Hawaii"],PARAMET | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ER["Vertical_Shift",0.0],PARAMETER["Directi | ONCRS[GEOGCRS["GCS_NAD_1983_PACP00",DYN |
| | | on",1.0],UNIT["Meter",1.0]],VTMETHOD["GE | AMIC[FRAMEEPOCH[1993.6205],MODEL["HTDP"]] |
| | | OID"],PARAMETER["Dataset_g1999h01",0.0], | ,DATUM["D_NAD_1983_PACP00",ELLIPSOID["GRS |
| | | OPERATIONACCURACY[0.046]] | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | | 2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999h01"],OPERATIONACCURACY[0.046]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|------------------------------------------------------|
| 110194 | NAD_1983_HARN_To_MSL_Hawaii_H | VERTTRAN["NAD_1983_HARN_To_MSL_Haw | COORDINATEOPERATION["NAD_1983_HARN_To_ |
| | eight_GEOID99 | aii_Height_GEOID99",GEOGCS["GCS_North_A | MSL_Hawaii_Height_GEOID99",SOURCECRS[VERT |
| | | merican_1983_HARN",DATUM["D_North_Am | CRS["North_American_1983_HARN",DATUM["D_ |
| | | erican_1983_HARN",SPHEROID["GRS_1980", | North_American_1983_HARN",ELLIPSOID["GRS_1 |
| | | 6378137.0,298.257222101]],PRIMEM["Green | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | eter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 33]],VERTCS["North_American_1983_HARN", | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | DATUM["D_North_American_1983_HARN",S | ERTCRS["MSL_Hawaii_height_(m)",VDATUM["Mea |
| | | PHEROID["GRS_1980",6378137.0,298.257222 | n_Sea_Level_Hawaii"],CS[vertical,1],AXIS["Gravity- |
| | | 101]],PARAMETER["Vertical_Shift",0.0],PARA | related height |
| | | METER["Direction",1.0],UNIT["Meter",1.0]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["MSL_Hawaii_height_(m)",VDATUM[" | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | Mean_Sea_Level_Hawaii"],PARAMETER["Vert | ARN",DATUM["D_North_American_1983_HARN", |
| | | ical_Shift",0.0],PARAMETER["Direction",1.0], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | RAMETER["Dataset_g1999h01",0.0],OPERATI | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | ONACCURACY[0.046]] |],CS[ellipsoidal,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["g1999h01"],OPERATIONACCURACY[0.046]] |

| WKID | Name | WKT1 | WKT2 |
|--------|--------------------------------|---------------------------------------------|---------------------------------------------------|
| 110195 | SHGD2015_To_SHVD2015_Height_EG | VERTTRAN["SHGD2015_To_SHVD2015_Heigh | COORDINATEOPERATION["SHGD2015_To_SHVD20 |
| | M2008_2.5x2.5 | t_EGM2008_2.5x2.5",GEOGCS["SHGD2015", | 15_Height_EGM2008_2.5x2.5",SOURCECRS[VERTC |
| | | DATUM["St_Helena_Geodetic_Datum_2015", | RS["SHGD2015",DATUM["St_Helena_Geodetic_Da |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | tum_2015",ELLIPSOID["GRS_1980",6378137.0,298 |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | .257222101,LENGTHUNIT["Meter",1.0]]],CS[vertic |
| | | ee",0.0174532925199433]],VERTCS["SHGD20 | al,1],AXIS["Ellipsoidal height |
| | | 15",DATUM["St_Helena_Geodetic_Datum_20 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 15",SPHEROID["GRS_1980",6378137.0,298.2 | ERTCRS["SHVD2015_height",VDATUM["St_Helena |
| | | 57222101]],PARAMETER["Vertical_Shift",0.0], | _Vertical_Datum_2015"],CS[vertical,1],AXIS["Gravi |
| | | PARAMETER["Direction",1.0],UNIT["Meter",1 | ty-related height |
| | | .0]],VERTCS["SHVD2015_height",VDATUM["S | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | t_Helena_Vertical_Datum_2015"],PARAMETE | ONCRS[GEOGCRS["SHGD2015",DATUM["St_Helen |
| | | R["Vertical_Shift",0.0],PARAMETER["Directio | a_Geodetic_Datum_2015",ELLIPSOID["GRS_1980", |
| | | n",1.0],UNIT["Meter",1.0]],VTMETHOD["EGM | 6378137.0,298.257222101,LENGTHUNIT["Meter", |
| | | 96"],PARAMETER["Dataset_egm2008- | 1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degr |
| | | 25.grd",0.0],OPERATIONACCURACY[0.5]] | ee",0.0174532925199433]],CS[ellipsoidal,2],AXIS[" |
| | | | Latitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | RFILE["egm2008- |
| | | | 25.grd"],OPERATIONACCURACY[0.5]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110196 | EUREF-FIN_To_N60_Height_FIN2000 | VERTTRAN["EUREF-FIN_To_N60_Height_FIN2000",GEOGCS["GCS_EUREF_FIN",DATUM["D_ETRS_1989",SPHER OID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["EUREF_FIN",DATUM["D_ETRS_1989",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["N60",VDATUM["Helsinki_1960"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_FIN2000_block",0.0],OPERATIONACCURACY[0.03]] | COORDINATEOPERATION["EUREF-FIN_To_N60_Height_FIN2000",SOURCECRS[VERTC RS["EUREF_FIN",DATUM["D_ETRS_1989",ELLIPSOI D["GRS_1980",6378137.0,298.257222101,LENGTH UNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["N60",VDATUM["Helsinki_1960"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_EUREF_FIN",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Longitude (lon)",east,ORDER[1]],AXIS["Latitude (lat)",north,ORDER[2]],ANGLEUNIT["Degree",0.01 74532925199433]]],METHOD["GEOID"],PARAMET ERFILE["FIN2000_block"],OPERATIONACCURACY[0 .03]] |
| 110197 | ETRS89_To_N60_Height_FIN2000 | VERTTRAN["ETRS89_To_N60_Height_FIN200 0",GEOGCS["GCS_ETRS_1989",DATUM["D_ET RS_1989",SPHEROID["GRS_1980",6378137.0, 298.257222101]],PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433]],VERT CS["ETRS_1989",DATUM["D_ETRS_1989",SPH EROID["GRS_1980",6378137.0,298.25722210 1]],PARAMETER["Vertical_Shift",0.0],PARAME TER["Direction",1.0],UNIT["Meter",1.0]],VERT CS["N60",VDATUM["Helsinki_1960"],PARAM ETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["G EOID"],PARAMETER["Dataset_FIN2000_block ",0.0],OPERATIONACCURACY[0.03]] | COORDINATEOPERATION["ETRS89_To_N60_Heigh t_FIN2000",SOURCECRS[VERTCRS["ETRS_1989",D ATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",637 8137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["N60",VDATUM["Helsinki_1960"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_E TRS_1989",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 4532925199433]]],METHOD["GEOID"],PARAMETE RFILE["FIN2000_block"],OPERATIONACCURACY[0.03]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110198 | EUREF- FIN_To_N2000_Height_FIN2005N00 | VERTTRAN["EUREF-FIN_To_N2000_Height_FIN2005N00",GEOGC S["GCS_EUREF_FIN",DATUM["D_ETRS_1989", SPHEROID["GRS_1980",6378137.0,298.25722 2101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["EUREF_FIN",DATUM["D_ETRS_1989",SPHEROID["GR S_1980",6378137.0,298.257222101]],PARAM ETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["N2000_height",VDATUM["N2000"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_FIN2005N00",0.0],OPE RATIONACCURACY[0.02]] | COORDINATEOPERATION["EUREF-FIN_To_N2000_Height_FIN2005N00",SOURCECRS[VERTCRS["EUREF_FIN",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["N2000_height",VDATUM["N2000"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_EUREF_FIN",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Longitude (lat)",north,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["FIN2005N00"],OPERATIONACCURACY[0.02]] |
| 110199 | ETRS89_To_N2000_Height_FIN2005N 00 | VERTTRAN["ETRS89_To_N2000_Height_FIN2 005N00",GEOGCS["GCS_ETRS_1989",DATUM ["D_ETRS_1989",SPHEROID["GRS_1980",637 8137.0,298.257222101]],PRIMEM["Greenwic h",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["ETRS_1989",DATUM["D_ETRS_198 9",SPHEROID["GRS_1980",6378137.0,298.25 7222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["N2000_height",VDATUM["N200 0"],PARAMETER["Vertical_Shift",0.0],PARAM ETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Dataset_FIN2005N00",0.0],OPERATIONACCURACY[0.02]] | COORDINATEOPERATION["ETRS89_To_N2000_Height_FIN2005N00",SOURCECRS[VERTCRS["ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[VERTCRS["N2000_height",VDATUM["N2000"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATIONCRS[GEOGCRS["GCS_ETRS_1989",DATUM["D_ETRS_1989",ELLIPSOID["GRS_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.0174532925199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETERFILE["FIN2005N00"],OPERATIONACCURACY[0.02] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|--------------------------------------------|---------------------------------------------------|
| 110200 | NAD_1983_CORS96_To_NAVD88_Hei | VERTTRAN["NAD_1983_CORS96_To_NAVD88 | COORDINATEOPERATION["NAD_1983_CORS96_To |
| | ght_CONUS_GEOID99 | _Height_CONUS_GEOID99",GEOGCS["GCS_N | _NAVD88_Height_CONUS_GEOID99",SOURCECRS[|
| | | AD_1983_CORS96",DATUM["D_NAD_1983_C | VERTCRS["NAD_1983_CORS96",DYNAMIC[FRAME |
| | | ORS96",SPHEROID["GRS_1980",6378137.0,29 | EPOCH[1997.0],MODEL["HTDP"]],DATUM["D_NAD |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | _1983_CORS96",ELLIPSOID["GRS_1980",6378137. |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | 0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[|
| | | NAD_1983_CORS96",DATUM["D_NAD_1983_ | vertical,1],AXIS["Ellipsoidal height |
| | | CORS96",SPHEROID["GRS_1980",6378137.0,2 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | 98.257222101]],PARAMETER["Vertical_Shift", | ERTCRS["NAVD_1988",VDATUM["North_American |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | _Vertical_Datum_1988"],CS[vertical,1],AXIS["Gravi |
| | | er",1.0]],VERTCS["NAVD_1988",VDATUM["No | ty-related height |
| | | rth_American_Vertical_Datum_1988"],PARA | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | ONCRS[GEOGCRS["GCS_NAD_1983_CORS96",DYN |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | AMIC[FRAMEEPOCH[1997.0],MODEL["HTDP"]],DA |
| | | GEOID"],PARAMETER["Dataset_geoid99_con | TUM["D_NAD_1983_CORS96",ELLIPSOID["GRS_19 |
| | | us",0.0],OPERATIONACCURACY[0.046]] | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | RFILE["geoid99_conus"],OPERATIONACCURACY[0. |
| | | | 046]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|--------------------------------------------------|
| 110201 | NGVD29_To_NAVD88_NAD27_CONUS | VERTTRAN["NGVD29_To_NAVD88_NAD27_C | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | _VERTCON3 | ONUS_VERTCON3",GEOGCS["GCS_North_Am | NAD27_CONUS_VERTCON3",SOURCECRS[VERTCRS |
| | | erican_1927",DATUM["D_North_American_1 | ["NGVD_1929",VDATUM["National_Geodetic_Vert |
| | | 927",SPHEROID["Clarke_1866",6378206.4,29 | ical_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 4.9786982]],PRIMEM["Greenwich",0.0],UNIT[| related height |
| | | "Degree",0.0174532925199433]],VERTCS["N | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | GVD_1929",VDATUM["National_Geodetic_Ve | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | rtical_Datum_1929"],PARAMETER["Vertical_S | UM["North_American_Vertical_Datum_1988"],CS[|
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | vertical,1],AXIS["Gravity-related height |
| | | Foot_US",0.3048006096012192]],VERTCS["N | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | AVD_1988",VDATUM["North_American_Verti | ONCRS[GEOGCRS["GCS_North_American_1927",D |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ATUM["D_North_American_1927",ELLIPSOID["Cla |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | rke_1866",6378206.4,294.9786982,LENGTHUNIT[" |
| | | Meter",1.0]],VTMETHOD["VERTCON3"],PARA | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | METER["Dataset_vertcon_3.0_20190601.ngv | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | d29.navd88.conus.oht.trn",0.0],OPERATIONA | 2],AXIS["Latitude |
| | | CCURACY[0.024]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | conus.oht.trn"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|-------------------------------------------------|
| 110202 | NGVD29_To_NAVD88_NAD83_CONUS | VERTTRAN["NGVD29_To_NAVD88_NAD83_C | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | _VERTCON3 | ONUS_VERTCON3",GEOGCS["GCS_North_Am | NAD83_CONUS_VERTCON3",SOURCECRS[VERTCRS |
| | | erican_1983",DATUM["D_North_American_1 | ["NGVD_1929",VDATUM["National_Geodetic_Vert |
| | | 983",SPHEROID["GRS_1980",6378137.0,298. | ical_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 257222101]],PRIMEM["Greenwich",0.0],UNIT | related height |
| | | ["Degree",0.0174532925199433]],VERTCS["N | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | GVD_1929",VDATUM["National_Geodetic_Ve | 192]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | rtical_Datum_1929"],PARAMETER["Vertical_S | UM["North_American_Vertical_Datum_1988"],CS[|
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | vertical,1],AXIS["Gravity-related height |
| | | Foot_US",0.3048006096012192]],VERTCS["N | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | AVD_1988",VDATUM["North_American_Verti | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | Meter",1.0]],VTMETHOD["VERTCON3"],PARA | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | METER["Dataset_vertcon_3.0_20190601.ngv | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | d29.navd88.conus.oht.trn",0.0],OPERATIONA | I,2],AXIS["Latitude |
| | | CCURACY[0.024]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | conus.oht.trn"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|--------------------------------------------|---------------------------------------------------|
| 110203 | NGVD29_To_NAVD88_NAD83_HARN_ | VERTTRAN["NGVD29_To_NAVD88_NAD83_H | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | CONUS_VERTCON3 | ARN_CONUS_VERTCON3",GEOGCS["GCS_Nor | NAD83_HARN_CONUS_VERTCON3",SOURCECRS[V |
| | | th_American_1983_HARN",DATUM["D_Nort | ERTCRS["NGVD_1929",VDATUM["National_Geode |
| | | h_American_1983_HARN",SPHEROID["GRS_1 | tic_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gr |
| | | 980",6378137.0,298.257222101]],PRIMEM[" | avity-related height |
| | | Greenwich",0.0],UNIT["Degree",0.017453292 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 5199433]],VERTCS["NGVD_1929",VDATUM[" | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | National_Geodetic_Vertical_Datum_1929"],P | UM["North_American_Vertical_Datum_1988"],CS[|
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| vertical,1],AXIS["Gravity-related height |
| | | "Direction",1.0],UNIT["Foot_US",0.30480060 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 96012192]],VERTCS["NAVD_1988",VDATUM[| ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | "North_American_Vertical_Datum_1988"],PA | ARN",DATUM["D_North_American_1983_HARN", |
| | | RAMETER["Vertical_Shift",0.0],PARAMETER[" | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | Direction",1.0],UNIT["Meter",1.0]],VTMETHO | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | D["VERTCON3"],PARAMETER["Dataset_vertc | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | on_3.0_20190601.ngvd29.navd88.conus.oht. |],CS[ellipsoidal,2],AXIS["Latitude |
| | | trn",0.0],OPERATIONACCURACY[0.024]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | conus.oht.trn"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|---------------------------------------------------|
| 110204 | NGVD29_To_NAVD88_NAD83_CORS9 | VERTTRAN["NGVD29_To_NAVD88_NAD83_C | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | 6_CONUS_VERTCON3 | ORS96_CONUS_VERTCON3",GEOGCS["GCS_N | NAD83_CORS96_CONUS_VERTCON3",SOURCECRS |
| | | AD_1983_CORS96",DATUM["D_NAD_1983_C | [VERTCRS["NGVD_1929",VDATUM["National_Geo |
| | | ORS96",SPHEROID["GRS_1980",6378137.0,29 | detic_Vertical_Datum_1929"],CS[vertical,1],AXIS[" |
| | | 8.257222101]],PRIMEM["Greenwich",0.0],UN | Gravity-related height |
| | | IT["Degree",0.0174532925199433]],VERTCS[" | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | NGVD_1929",VDATUM["National_Geodetic_ | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | Vertical_Datum_1929"],PARAMETER["Vertica | UM["North_American_Vertical_Datum_1988"],CS[|
| | | I_Shift",0.0],PARAMETER["Direction",1.0],UNI | vertical,1],AXIS["Gravity-related height |
| | | T["Foot_US",0.3048006096012192]],VERTCS[| (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | "NAVD_1988",VDATUM["North_American_V | ONCRS[GEOGCRS["GCS_NAD_1983_CORS96",DYN |
| | | ertical_Datum_1988"],PARAMETER["Vertical | AMIC[FRAMEEPOCH[1997.0],MODEL["HTDP"]],DA |
| | | _Shift",0.0],PARAMETER["Direction",1.0],UNI | TUM["D_NAD_1983_CORS96",ELLIPSOID["GRS_19 |
| | | T["Meter",1.0]],VTMETHOD["VERTCON3"],PA | 80",6378137.0,298.257222101,LENGTHUNIT["Met |
| | | RAMETER["Dataset_vertcon_3.0_20190601.n | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | gvd29.navd88.conus.oht.trn",0.0],OPERATIO | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | NACCURACY[0.024]] | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | conus.oht.trn"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|-----------------------------------------------|--------------------------------------------------|
| 110205 | NGVD29_To_NAVD88_NAD83_FBN_C | VERTTRAN["NGVD29_To_NAVD88_NAD83_F | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | ONUS_VERTCON3 | BN_CONUS_VERTCON3",GEOGCS["NAD_198 | NAD83_FBN_CONUS_VERTCON3",SOURCECRS[VE |
| | | 3_(FBN)",DATUM["NAD_1983_(Federal_Base | RTCRS["NGVD_1929",VDATUM["National_Geodeti |
| | | _Network)",SPHEROID["GRS_1980",6378137. | c_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gra |
| | | 0,298.257222101]],PRIMEM["Greenwich",0.0 | vity-related height |
| | |],UNIT["Degree",0.0174532925199433]],VER | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | TCS["NGVD_1929",VDATUM["National_Geod | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | etic_Vertical_Datum_1929"],PARAMETER["V | UM["North_American_Vertical_Datum_1988"],CS[|
| | | ertical_Shift",0.0],PARAMETER["Direction",1. | vertical,1],AXIS["Gravity-related height |
| | | 0],UNIT["Foot_US",0.3048006096012192]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["NAD_1983_(FBN)",DATUM["N |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | AD_1983_(Federal_Base_Network)",ELLIPSOID["G |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | ,UNIT["Meter",1.0]],VTMETHOD["VERTCON3" | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | |],PARAMETER["Dataset_vertcon_3.0_201906 | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | 01.ngvd29.navd88.conus.oht.trn",0.0],OPERA | I,2],AXIS["Latitude |
| | | TIONACCURACY[0.024]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | conus.oht.trn"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|--------------------------------------------------|
| 110206 | NGVD29_To_NAVD88_NAD83_NSRS2 | VERTTRAN["NGVD29_To_NAVD88_NAD83_N | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | 007_CONUS_VERTCON3 | SRS2007_CONUS_VERTCON3",GEOGCS["GCS | NAD83_NSRS2007_CONUS_VERTCON3",SOURCEC |
| | | _NAD_1983_NSRS2007",DATUM["D_NAD_19 | RS[VERTCRS["NGVD_1929",VDATUM["National_G |
| | | 83_NSRS2007",SPHEROID["GRS_1980",63781 | eodetic_Vertical_Datum_1929"],CS[vertical,1],AXI |
| | | 37.0,298.257222101]],PRIMEM["Greenwich", | S["Gravity-related height |
| | | 0.0],UNIT["Degree",0.0174532925199433]],V | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | ERTCS["NGVD_1929",VDATUM["National_Ge | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | odetic_Vertical_Datum_1929"],PARAMETER[| UM["North_American_Vertical_Datum_1988"],CS[|
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | vertical,1],AXIS["Gravity-related height |
| | | 1.0],UNIT["Foot_US",0.3048006096012192]], | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | VERTCS["NAVD_1988",VDATUM["North_Ame | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | rican_Vertical_Datum_1988"],PARAMETER[" | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | .0],UNIT["Meter",1.0]],VTMETHOD["VERTCO | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | N3"],PARAMETER["Dataset_vertcon_3.0_201 | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | 90601.ngvd29.navd88.conus.oht.trn",0.0],OP | 2],AXIS["Latitude |
| | | ERATIONACCURACY[0.024]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | conus.oht.trn"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|--------------------------------------------|---------------------------------------------------|
| 110207 | NGVD29_To_NAVD88_NAD83_2011_ | VERTTRAN["NGVD29_To_NAVD88_NAD83_2 | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | CONUS_VERTCON3 | 011_CONUS_VERTCON3",GEOGCS["GCS_NAD | NAD83_2011_CONUS_VERTCON3",SOURCECRS[VE |
| | | _1983_2011",DATUM["D_NAD_1983_2011", | RTCRS["NGVD_1929",VDATUM["National_Geodeti |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | c_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gra |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | vity-related height |
| | | ee",0.0174532925199433]],VERTCS["NGVD_1 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 929",VDATUM["National_Geodetic_Vertical_ | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | Datum_1929"],PARAMETER["Vertical_Shift",0 | UM["North_American_Vertical_Datum_1988"],CS[|
| | | .0],PARAMETER["Direction",1.0],UNIT["Foot_ | vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1988",VDATUM["North_American_Vertical_D | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | atum_1988"],PARAMETER["Vertical_Shift",0. | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | ",1.0]],VTMETHOD["VERTCON3"],PARAMETE | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | R["Dataset_vertcon_3.0_20190601.ngvd29.n | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | avd88.conus.oht.trn",0.0],OPERATIONACCUR | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | ACY[0.024]] | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | conus.oht.trn"],OPERATIONACCURACY[0.024]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|--------------------------------------------------|
| 110208 | NGVD29_To_NAVD88_NAD27_Alaska | VERTTRAN["NGVD29_To_NAVD88_NAD27_AI | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | _VERTCON3 | aska_VERTCON3",GEOGCS["GCS_North_Ame | NAD27_Alaska_VERTCON3",SOURCECRS[VERTCRS[|
| | | rican_1927",DATUM["D_North_American_19 | "NGVD_1929",VDATUM["National_Geodetic_Verti |
| | | 27",SPHEROID["Clarke_1866",6378206.4,294. | cal_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 9786982]],PRIMEM["Greenwich",0.0],UNIT[" | related height |
| | | Degree",0.0174532925199433]],VERTCS["NG | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | VD_1929",VDATUM["National_Geodetic_Ver | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | tical_Datum_1929"],PARAMETER["Vertical_S | UM["North_American_Vertical_Datum_1988"],CS[|
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | vertical,1],AXIS["Gravity-related height |
| | | Foot_US",0.3048006096012192]],VERTCS["N | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | AVD_1988",VDATUM["North_American_Verti | ONCRS[GEOGCRS["GCS_North_American_1927",D |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ATUM["D_North_American_1927",ELLIPSOID["Cla |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | rke_1866",6378206.4,294.9786982,LENGTHUNIT[" |
| | | Meter",1.0]],VTMETHOD["VERTCON3"],PARA | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | | METER["Dataset_vertcon_3.0_20190601.ngv | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | d29.navd88.alaska.oht.trn",0.0],OPERATIONA | 2],AXIS["Latitude |
| | | CCURACY[0.026]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | alaska.oht.trn"],OPERATIONACCURACY[0.026]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|----------------------------------------------|-------------------------------------------------|
| 110209 | NGVD29_To_NAVD88_NAD83_Alaska | VERTTRAN["NGVD29_To_NAVD88_NAD83_AI | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | _VERTCON3 | aska_VERTCON3",GEOGCS["GCS_North_Ame | NAD83_Alaska_VERTCON3",SOURCECRS[VERTCRS[|
| | | rican_1983",DATUM["D_North_American_19 | "NGVD_1929",VDATUM["National_Geodetic_Verti |
| | | 83",SPHEROID["GRS_1980",6378137.0,298.2 | cal_Datum_1929"],CS[vertical,1],AXIS["Gravity- |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| related height |
| | | "Degree",0.0174532925199433]],VERTCS["N | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | GVD_1929",VDATUM["National_Geodetic_Ve | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | rtical_Datum_1929"],PARAMETER["Vertical_S | UM["North_American_Vertical_Datum_1988"],CS[|
| | | hift",0.0],PARAMETER["Direction",1.0],UNIT[" | vertical,1],AXIS["Gravity-related height |
| | | Foot_US",0.3048006096012192]],VERTCS["N | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | AVD_1988",VDATUM["North_American_Verti | ONCRS[GEOGCRS["GCS_North_American_1983",D |
| | | cal_Datum_1988"],PARAMETER["Vertical_Shi | ATUM["D_North_American_1983",ELLIPSOID["GR |
| | | ft",0.0],PARAMETER["Direction",1.0],UNIT[" | S_1980",6378137.0,298.257222101,LENGTHUNIT[|
| | | Meter",1.0]],VTMETHOD["VERTCON3"],PARA | "Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | METER["Dataset_vertcon_3.0_20190601.ngv | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | d29.navd88.alaska.oht.trn",0.0],OPERATIONA | l,2],AXIS["Latitude |
| | | CCURACY[0.026]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | alaska.oht.trn"],OPERATIONACCURACY[0.026]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|--------------------------------------------|--------------------------------------------------|
| 110210 | NGVD29_To_NAVD88_NAD83_HARN_ | VERTTRAN["NGVD29_To_NAVD88_NAD83_H | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | Alaska_VERTCON3 | ARN_Alaska_VERTCON3",GEOGCS["GCS_Nort | NAD83_HARN_Alaska_VERTCON3",SOURCECRS[VE |
| | | h_American_1983_HARN",DATUM["D_North | RTCRS["NGVD_1929",VDATUM["National_Geodeti |
| | | _American_1983_HARN",SPHEROID["GRS_19 | c_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gra |
| | | 80",6378137.0,298.257222101]],PRIMEM["Gr | vity-related height |
| | | eenwich",0.0],UNIT["Degree",0.01745329251 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 99433]],VERTCS["NGVD_1929",VDATUM["Na | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | tional_Geodetic_Vertical_Datum_1929"],PAR | UM["North_American_Vertical_Datum_1988"],CS[|
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | vertical,1],AXIS["Gravity-related height |
| | | irection",1.0],UNIT["Foot_US",0.3048006096 | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 012192]],VERTCS["NAVD_1988",VDATUM["N | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | orth_American_Vertical_Datum_1988"],PAR | ARN",DATUM["D_North_American_1983_HARN", |
| | | AMETER["Vertical_Shift",0.0],PARAMETER["D | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | irection",1.0],UNIT["Meter",1.0]],VTMETHOD | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | ["VERTCON3"],PARAMETER["Dataset_vertcon | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | _3.0_20190601.ngvd29.navd88.alaska.oht.tr |],CS[ellipsoidal,2],AXIS["Latitude |
| | | n",0.0],OPERATIONACCURACY[0.026]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | alaska.oht.trn"],OPERATIONACCURACY[0.026]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|-----------------------------------------------|---------------------------------------------------|
| 110211 | NGVD29_To_NAVD88_NAD83_NSRS2 | VERTTRAN["NGVD29_To_NAVD88_NAD83_N | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | 007_Alaska_VERTCON3 | SRS2007_Alaska_VERTCON3",GEOGCS["GCS_ | NAD83_NSRS2007_Alaska_VERTCON3",SOURCECR |
| | | NAD_1983_NSRS2007",DATUM["D_NAD_198 | S[VERTCRS["NGVD_1929",VDATUM["National_Ge |
| | | 3_NSRS2007",SPHEROID["GRS_1980",637813 | odetic_Vertical_Datum_1929"],CS[vertical,1],AXIS[|
| | | 7.0,298.257222101]],PRIMEM["Greenwich",0 | "Gravity-related height |
| | | .0],UNIT["Degree",0.0174532925199433]],VE | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | RTCS["NGVD_1929",VDATUM["National_Geo | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | detic_Vertical_Datum_1929"],PARAMETER[" | UM["North_American_Vertical_Datum_1988"],CS[|
| | | Vertical_Shift",0.0],PARAMETER["Direction",1 | vertical,1],AXIS["Gravity-related height |
| | | .0],UNIT["Foot_US",0.3048006096012192]],V | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ERTCS["NAVD_1988",VDATUM["North_Ameri | ONCRS[GEOGCRS["GCS_NAD_1983_NSRS2007",D |
| | | can_Vertical_Datum_1988"],PARAMETER["Ve | ATUM["D_NAD_1983_NSRS2007",ELLIPSOID["GRS |
| | | rtical_Shift",0.0],PARAMETER["Direction",1.0] | _1980",6378137.0,298.257222101,LENGTHUNIT[" |
| | | ,UNIT["Meter",1.0]],VTMETHOD["VERTCON3" | Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUN |
| | |],PARAMETER["Dataset_vertcon_3.0_201906 | IT["Degree",0.0174532925199433]],CS[ellipsoidal, |
| | | 01.ngvd29.navd88.alaska.oht.trn",0.0],OPERA | 2],AXIS["Latitude |
| | | TIONACCURACY[0.026]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | alaska.oht.trn"],OPERATIONACCURACY[0.026]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|--------------------------------------------|---------------------------------------------------|
| 110212 | NGVD29_To_NAVD88_NAD83_2011_ | VERTTRAN["NGVD29_To_NAVD88_NAD83_2 | COORDINATEOPERATION["NGVD29_To_NAVD88_ |
| | Alaska_VERTCON3 | 011_Alaska_VERTCON3",GEOGCS["GCS_NAD | NAD83_2011_Alaska_VERTCON3",SOURCECRS[VE |
| | | _1983_2011",DATUM["D_NAD_1983_2011", | RTCRS["NGVD_1929",VDATUM["National_Geodeti |
| | | SPHEROID["GRS_1980",6378137.0,298.25722 | c_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gra |
| | | 2101]],PRIMEM["Greenwich",0.0],UNIT["Degr | vity-related height |
| | | ee",0.0174532925199433]],VERTCS["NGVD_1 | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 929",VDATUM["National_Geodetic_Vertical_ | 192]]]],TARGETCRS[VERTCRS["NAVD_1988",VDAT |
| | | Datum_1929"],PARAMETER["Vertical_Shift",0 | UM["North_American_Vertical_Datum_1988"],CS[|
| | | .0],PARAMETER["Direction",1.0],UNIT["Foot_ | vertical,1],AXIS["Gravity-related height |
| | | US",0.3048006096012192]],VERTCS["NAVD_ | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 1988",VDATUM["North_American_Vertical_D | ONCRS[GEOGCRS["GCS_NAD_1983_2011",DYNAM |
| | | atum_1988"],PARAMETER["Vertical_Shift",0. | IC[FRAMEEPOCH[2010.0],MODEL["HTDP"]],DATU |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | M["D_NAD_1983_2011",ELLIPSOID["GRS_1980",6 |
| | | ",1.0]],VTMETHOD["VERTCON3"],PARAMETE | 378137.0,298.257222101,LENGTHUNIT["Meter",1. |
| | | R["Dataset_vertcon_3.0_20190601.ngvd29.n | 0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degre |
| | | avd88.alaska.oht.trn",0.0],OPERATIONACCUR | e",0.0174532925199433]],CS[ellipsoidal,2],AXIS["L |
| | | ACY[0.026]] | atitude (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.ngvd29.navd88. |
| | | | alaska.oht.trn"],OPERATIONACCURACY[0.026]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|---------------------------------------------------|
| 110213 | GUVD63_To_GUVD04_NAD83_HARN_ | VERTTRAN["GUVD63_To_GUVD04_NAD83_H | COORDINATEOPERATION["GUVD63_To_GUVD04_ |
| | VERTCON3 | ARN_VERTCON3",GEOGCS["GCS_North_Ame | NAD83_HARN_VERTCON3",SOURCECRS[VERTCRS[|
| | | rican_1983_HARN",DATUM["D_North_Ameri | "Guam_1963_height",VDATUM["Guam_Vertical_ |
| | | can_1983_HARN",SPHEROID["GRS_1980",63 | Datum_of_1963"],CS[vertical,1],AXIS["Gravity- |
| | | 78137.0,298.257222101]],PRIMEM["Greenwi | related height |
| | | ch",0.0],UNIT["Degree",0.0174532925199433 | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | |]],VERTCS["Guam_1963_height",VDATUM["G | VERTCRS["GUVD04_height",VDATUM["Guam_Vert |
| | | uam_Vertical_Datum_of_1963"],PARAMETER | ical_Datum_of_2004"],CS[vertical,1],AXIS["Gravity |
| | | ["Vertical_Shift",0.0],PARAMETER["Direction" | -related height |
| | | ,1.0],UNIT["Meter",1.0]],VERTCS["GUVD04_h | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | eight",VDATUM["Guam_Vertical_Datum_of_ | ONCRS[GEOGCRS["GCS_North_American_1983_H |
| | | 2004"],PARAMETER["Vertical_Shift",0.0],PAR | ARN",DATUM["D_North_American_1983_HARN", |
| | | AMETER["Direction",1.0],UNIT["Meter",1.0]], | ELLIPSOID["GRS_1980",6378137.0,298.257222101 |
| | | VTMETHOD["VERTCON3"],PARAMETER["Data | ,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich |
| | | set_vertcon_3.0_20190601.guvd63.guvd04.g | ",0.0,ANGLEUNIT["Degree",0.0174532925199433] |
| | | uam.oht.trn",0.0],OPERATIONACCURACY[0.0 |],CS[ellipsoidal,2],AXIS["Latitude |
| | | 54]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.guvd63.guvd04. |
| | | | guam.oht.trn"],OPERATIONACCURACY[0.054]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|--------------------------------------------|---------------------------------------------------|
| 110214 | GUVD63_To_GUVD04_NAD83_FBN_V | VERTTRAN["GUVD63_To_GUVD04_NAD83_F | COORDINATEOPERATION["GUVD63_To_GUVD04_ |
| | ERTCON3 | BN_VERTCON3",GEOGCS["NAD_1983_(FBN)", | NAD83_FBN_VERTCON3",SOURCECRS[VERTCRS[" |
| | | DATUM["NAD_1983_(Federal_Base_Network | Guam_1963_height",VDATUM["Guam_Vertical_D |
| | |)",SPHEROID["GRS_1980",6378137.0,298.257 | atum_of_1963"],CS[vertical,1],AXIS["Gravity- |
| | | 222101]],PRIMEM["Greenwich",0.0],UNIT["D | related height |
| | | egree",0.0174532925199433]],VERTCS["Gua | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | m_1963_height",VDATUM["Guam_Vertical_ | VERTCRS["GUVD04_height",VDATUM["Guam_Vert |
| | | Datum_of_1963"],PARAMETER["Vertical_Shif | ical_Datum_of_2004"],CS[vertical,1],AXIS["Gravity |
| | | t",0.0],PARAMETER["Direction",1.0],UNIT["M | -related height |
| | | eter",1.0]],VERTCS["GUVD04_height",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | M["Guam_Vertical_Datum_of_2004"],PARA | ONCRS[GEOGCRS["NAD_1983_(FBN)",DATUM["N |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | AD_1983_(Federal_Base_Network)",ELLIPSOID["G |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | VERTCON3"],PARAMETER["Dataset_vertcon_ | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | 3.0_20190601.guvd63.guvd04.guam.oht.trn", | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | 0.0],OPERATIONACCURACY[0.054]] | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.guvd63.guvd04. |
| | | | guam.oht.trn"],OPERATIONACCURACY[0.054]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-----------------------------|--------------------------------------------|---------------------------------------------------|
| 110215 | GUVD63_To_GUVD04_NAD83_MARP | VERTTRAN["GUVD63_To_GUVD04_NAD83_ | COORDINATEOPERATION["GUVD63_To_GUVD04_ |
| | 00_VERTCON3 | MARPOO_VERTCON3",GEOGCS["GCS_NAD_1 | NAD83_MARP00_VERTCON3",SOURCECRS[VERTC |
| | | 983_MARP00",DATUM["D_NAD_1983_MARP | RS["Guam_1963_height",VDATUM["Guam_Vertica |
| | | 00",SPHEROID["GRS_1980",6378137.0,298.2 | I_Datum_of_1963"],CS[vertical,1],AXIS["Gravity- |
| | | 57222101]],PRIMEM["Greenwich",0.0],UNIT[| related height |
| | | "Degree",0.0174532925199433]],VERTCS["Gu | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | am_1963_height",VDATUM["Guam_Vertical_ | VERTCRS["GUVD04_height",VDATUM["Guam_Vert |
| | | Datum_of_1963"],PARAMETER["Vertical_Shif | ical_Datum_of_2004"],CS[vertical,1],AXIS["Gravity |
| | | t",0.0],PARAMETER["Direction",1.0],UNIT["M | -related height |
| | | eter",1.0]],VERTCS["GUVD04_height",VDATU | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | M["Guam_Vertical_Datum_of_2004"],PARA | ONCRS[GEOGCRS["GCS_NAD_1983_MARP00",DY |
| | | METER["Vertical_Shift",0.0],PARAMETER["Dir | NAMIC[FRAMEEPOCH[1993.6205],MODEL["HTDP" |
| | | ection",1.0],UNIT["Meter",1.0]],VTMETHOD[" |]],DATUM["D_NAD_1983_MARP00",ELLIPSOID["G |
| | | VERTCON3"],PARAMETER["Dataset_vertcon_ | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | 3.0_20190601.guvd63.guvd04.guam.oht.trn", | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | 0.0],OPERATIONACCURACY[0.054]] | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | | ETERFILE["vertcon_3.0_20190601.guvd63.guvd04. |
| | | | guam.oht.trn"],OPERATIONACCURACY[0.054]] |

| Name | WKT1 | WKT2 |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GUVD63_To_GUVD04_NAD83_MA11_ | VERTTRAN["GUVD63_To_GUVD04_NAD83_ | COORDINATEOPERATION["GUVD63_To_GUVD04_ |
| VERTCON3 | MA11_VERTCON3",GEOGCS["GCS_NAD_1983 | NAD83_MA11_VERTCON3",SOURCECRS[VERTCRS[|
| | _MA11",DATUM["D_NAD_1983_MA11",SPHE | "Guam_1963_height",VDATUM["Guam_Vertical_ |
| | ROID["GRS_1980",6378137.0,298.257222101 | Datum_of_1963"],CS[vertical,1],AXIS["Gravity- |
| |]],PRIMEM["Greenwich",0.0],UNIT["Degree", | related height |
| | | (H)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[|
| | | VERTCRS["GUVD04_height",VDATUM["Guam_Vert |
| | | ical_Datum_of_2004"],CS[vertical,1],AXIS["Gravity |
| | | -related height |
| | | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ONCRS[GEOGCRS["GCS_NAD_1983_MA11",DYNA |
| | | MIC[FRAMEEPOCH[2012.4467],MODEL["HTDP"]], |
| | | DATUM["D_NAD_1983_MA11",ELLIPSOID["GRS_1 |
| | | 980",6378137.0,298.257222101,LENGTHUNIT["M |
| | | eter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[|
| | TIONACCURACY[0.054]] | "Degree",0.0174532925199433]],CS[ellipsoidal,2], |
| | | AXIS["Latitude |
| | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | 4532925199433]]],METHOD["VERTCON3"],PARAM |
| | | ETERFILE["vertcon_3.0_20190601.guvd63.guvd04. |
| NCVD20 Height fills To an | \/FDTTDAN("NC\/D20 Height ftHC To me"\/F | guam.oht.trn"],OPERATIONACCURACY[0.054]] COORDINATEOPERATION["NGVD29 Height ftUS |
| NGVD29_Height_itO5_TO_m | | To_m",SOURCECRS[VERTCRS["NGVD_1929",VDAT |
| | | UM["National_Geodetic_Vertical_Datum_1929"], |
| | | CS[vertical,1],AXIS["Gravity-related height |
| | | (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 |
| | | 192]]]],TARGETCRS[VERTCRS["NGVD_1929_height |
| | | _(m)",VDATUM["National_Geodetic_Vertical_Dat |
| | | um_1929"],CS[vertical,1],AXIS["Gravity-related |
| | <u> </u> | height |
| | | (H)",up,LENGTHUNIT["Meter",1.0]]]],METHOD["U |
| | | nit Change"],OPERATIONACCURACY[0.0]] |
| | GUVD63_To_GUVD04_NAD83_MA11_ | VERTCON3 VERTCON3 VERTCON3 VERTCON3 VERTCON3 VERTCON3 VERTCON3 MA11_VERTCON3",GEOGCS["GCS_NAD_1983_MA11",SPHE ROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree", 0.0174532925199433]],VERTCS["Guam_1963_height",VDATUM["Guam_Vertical_Datum_of_1963"],PARAMETER["Vertical_Shift",0.0],PA RAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["GUVD04_height",VDATUM["Guam_Vertical_Datum_of_2004"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0] ,UNIT["Meter",1.0]],VTMETHOD["VERTCON3"]],PARAMETER["Dataset_vertcon_3.0_201906 01.guvd63.guvd04.guam.oht.trn",0.0],OPERA TIONACCURACY[0.054]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 110218 | NGVD29_ftUS_Height_To_Depth | VERTTRAN["NGVD29_ftUS_Height_To_Depth ",VERTCS["NGVD_1929",VDATUM["National_ Geodetic_Vertical_Datum_1929"],PARAMETE R["Vertical_Shift",0.0],PARAMETER["Directio n",1.0],UNIT["Foot_US",0.304800609601219 2]],VERTCS["NGVD29_depth",VDATUM["Nati onal_Geodetic_Vertical_Datum_1929"],PARA METER["Vertical_Shift",0.0],PARAMETER["Direction",- 1.0],UNIT["Foot_US",0.3048006096012192]],VTMETHOD["Height_Depth_Reversal"],OPER ATIONACCURACY[0.0]] | COORDINATEOPERATION["NGVD29_ftUS_Height_ To_Depth",SOURCECRS[VERTCRS["NGVD_1929",V DATUM["National_Geodetic_Vertical_Datum_192 9"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Foot_US",0.3048006096012 192]]]],TARGETCRS[VERTCRS["NGVD29_depth",VD ATUM["National_Geodetic_Vertical_Datum_1929"],CS[vertical,1],AXIS["Gravity-related height (H)",down,LENGTHUNIT["Foot_US",0.3048006096 012192]]]],METHOD["Height_Depth_Reversal"],O PERATIONACCURACY[0.0]] |
| 110219 | GDA94_Height_To_AHD_Height_AUS Geoid98 | VERTTRAN["GDA94_Height_To_AHD_Height_AUSGeoid98",GEOGCS["GCS_GDA_1994",DATUM["D_GDA_1994",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],VERTCS["GDA_1994",DATUM["D_GDA_1994",SPHEROID["GRS_1980",6378137.0,298.257222101]],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VERTCS["AHD",VDATUM["Australian_Height_Datum"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Meter",1.0]],VTMETHOD["GEOID"],PARAMETER["Interpolation_Type",40.0],PARAMETER["Dataset_AUSGeoid98",0.0],OPERATIONACCURACY[0.05]] | COORDINATEOPERATION["GDA94_Height_To_AH D_Height_AUSGeoid98",SOURCECRS[VERTCRS["G DA_1994",DATUM["D_GDA_1994",ELLIPSOID["GR S_1980",6378137.0,298.257222101,LENGTHUNIT["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V ERTCRS["AHD",VDATUM["Australian_Height_Datu m"],CS[vertical,1],AXIS["Gravity-related height (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI ONCRS[GEOGCRS["GCS_GDA_1994",DATUM["D_G DA_1994",ELLIPSOID["GRS_1980",6378137.0,298. 257222101,LENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT["Degree",0.01745329 25199433]],CS[ellipsoidal,2],AXIS["Latitude (lat)",north,ORDER[1]],AXIS["Longitude (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.0174532925199433]]],METHOD["GEOID"],PARAMETE R["Interpolation_Type",40.0,SCALEUNIT["Unity",1.0]],PARAMETERFILE["AUSGeoid98"],OPERATIONA CCURACY[0.05]] |

| WKID | Name | WKT1 | WKT2 |
|--------|-------------------------------|--------------------------------------------|----------------------------------------------------|
| 110220 | WGS_1984_To_EGM_1996_Geoid_BC | VERTTRAN["WGS_1984_To_EGM_1996_Geoi | COORDINATEOPERATION["WGS_1984_To_EGM_1 |
| | NS_3 | d_BCNS_3",GEOGCS["GCS_WGS_1984",DATU | 996_Geoid_BCNS_3",SOURCECRS[VERTCRS["WGS |
| | | M["D_WGS_1984",SPHEROID["WGS_1984",6 | _1984",DYNAMIC[FRAMEEPOCH[1990.5],MODEL[" |
| | | 378137.0,298.257223563]],PRIMEM["Green | AM0- |
| | | wich",0.0],UNIT["Degree",0.01745329251994 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 33]],VERTCS["WGS_1984",DATUM["D_WGS_ | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | 1984",SPHEROID["WGS_1984",6378137.0,29 | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 8.257223563]],PARAMETER["Vertical_Shift",0 | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | .0],PARAMETER["Direction",1.0],UNIT["Meter | ERTCRS["EGM96_Geoid",VDATUM["EGM96_Geoid |
| | | ",1.0]],VERTCS["EGM96_Geoid",VDATUM["E | "],CS[vertical,1],AXIS["Gravity-related height |
| | | GM96_Geoid"],PARAMETER["Vertical_Shift", | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | 0.0],PARAMETER["Direction",1.0],UNIT["Met | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | er",1.0]],VTMETHOD["EGM96"],PARAMETER[| AMEEPOCH[1990.5],MODEL["AM0- |
| | | "Interpolation_Type",42.0],PARAMETER["Dat | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | aset_egm96.grd",0.0],OPERATIONACCURACY[| 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | 1.0]] | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | R["Interpolation_Type",42.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["egm96.grd"],OPERATIONACC |
| | | | URACY[1.0]] |

| WKID | Name | WKT1 | WKT2 |
|--------|------------------------------|----------------------------------------------|-----------------------------------------------------|
| 110221 | WGS_1984_To_WGS_1984_EGM2008 | VERTTRAN["WGS_1984_To_WGS_1984_EGM | COORDINATEOPERATION["WGS_1984_To_WGS_1 |
| | _2.5x2.5_Height_BCNS | 2008_2.5x2.5_Height_BCNS",GEOGCS["GCS_ | 984_EGM2008_2.5x2.5_Height_BCNS",SOURCECR |
| | | WGS_1984",DATUM["D_WGS_1984",SPHERO | S[VERTCRS["WGS_1984",DYNAMIC[FRAMEEPOCH[|
| | | ID["WGS_1984",6378137.0,298.257223563]], | 1990.5],MODEL["AM0- |
| | | PRIMEM["Greenwich",0.0],UNIT["Degree",0. | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 0174532925199433]],VERTCS["WGS_1984",D | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | ATUM["D_WGS_1984",SPHEROID["WGS_198 | er",1.0]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | 4",6378137.0,298.257223563]],PARAMETER[| (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | "Vertical_Shift",0.0],PARAMETER["Direction", | ERTCRS["EGM2008_Geoid",VDATUM["EGM2008_ |
| | | 1.0],UNIT["Meter",1.0]],VERTCS["EGM2008_ | Geoid"],CS[vertical,1],AXIS["Gravity-related height |
| | | Geoid",VDATUM["EGM2008_Geoid"],PARAM | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | ETER["Vertical_Shift",0.0],PARAMETER["Direc | ONCRS[GEOGCRS["GCS_WGS_1984",DYNAMIC[FR |
| | | tion",1.0],UNIT["Meter",1.0]],VTMETHOD["E | AMEEPOCH[1990.5],MODEL["AM0- |
| | | GM96"],PARAMETER["Interpolation_Type",6 | 2"]],DATUM["D_WGS_1984",ELLIPSOID["WGS_19 |
| | | 1.0],PARAMETER["Dataset_egm2008- | 84",6378137.0,298.257223563,LENGTHUNIT["Met |
| | | 25.grd",0.0],OPERATIONACCURACY[0.2]] | er",1.0]]],PRIMEM["Greenwich",0.0,ANGLEUNIT[" |
| | | | Degree",0.0174532925199433]],CS[ellipsoidal,2],A |
| | | | XIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["EGM96"],PARAMETE |
| | | | R["Interpolation_Type",61.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["egm2008- |
| | | | 25.grd"],OPERATIONACCURACY[0.2]] |

| WKID | Name | WKT1 | WKT2 |
|--------|---------------------------------|-----------------------------------------------|---------------------------------------------------|
| 110222 | NAD83(CSRS)_Height_To_CGVD28_He | VERTTRAN["NAD83(CSRS)_Height_To_CGVD2 | COORDINATEOPERATION["NAD83(CSRS)_Height_T |
| | ight_GSD95 | 8_Height_GSD95",GEOGCS["GCS_North_Ame | o_CGVD28_Height_GSD95",SOURCECRS[VERTCRS[|
| | | rican_1983_CSRS",DATUM["D_North_Americ | "North_American_1983_CSRS",DATUM["D_North |
| | | an_1983_CSRS",SPHEROID["GRS_1980",6378 | _American_1983_CSRS",ELLIPSOID["GRS_1980",63 |
| | | 137.0,298.257222101]],PRIMEM["Greenwich | 78137.0,298.257222101,LENGTHUNIT["Meter",1.0 |
| | | ",0.0],UNIT["Degree",0.0174532925199433]], |]]],CS[vertical,1],AXIS["Ellipsoidal height |
| | | VERTCS["North_American_1983_CSRS",DATU | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | M["D_North_American_1983_CSRS",SPHEROI | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | D["GRS_1980",6378137.0,298.257222101]],P | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VERTCS[" | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | CGVD_1928",VDATUM["Canadian_Geodetic_ | ONCRS[GEOGCRS["GCS_North_American_1983_C |
| | | Vertical_Datum_of_1928"],PARAMETER["Ver | SRS",DATUM["D_North_American_1983_CSRS",EL |
| | | tical_Shift",0.0],PARAMETER["Direction",1.0], | LIPSOID["GRS_1980",6378137.0,298.257222101,L |
| | | UNIT["Meter",1.0]],VTMETHOD["GEOID"],PA | ENGTHUNIT["Meter",1.0]]],PRIMEM["Greenwich", |
| | | RAMETER["Interpolation_Type",30.0],PARAM | 0.0,ANGLEUNIT["Degree",0.0174532925199433]], |
| | | ETER["Dataset_NGSD95n83",0.0],OPERATION | CS[ellipsoidal,2],AXIS["Latitude |
| | | ACCURACY[0.6]] | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["NGSD95n83"],OPERATIONAC |
| | | | CURACY[0.6]] |

| WKID | Name | WKT1 | WKT2 |
|--------|----------------------------------|--------------------------------------------|---------------------------------------------------|
| 110223 | ITRF_1997_Height_To_CGVD28_Heigh | VERTTRAN["ITRF_1997_Height_To_CGVD28_ | COORDINATEOPERATION["ITRF_1997_Height_To_ |
| | t_GSD95 | Height_GSD95",GEOGCS["GCS_ITRF_1997",D | CGVD28_Height_GSD95",SOURCECRS[VERTCRS["IT |
| | | ATUM["D_ITRF_1997",SPHEROID["GRS_1980 | RF_1997",DYNAMIC[FRAMEEPOCH[1997.0],MODE |
| | | ",6378137.0,298.257222101]],PRIMEM["Gree | L["NNR- |
| | | nwich",0.0],UNIT["Degree",0.0174532925199 | NUVEL1A"]],DATUM["D_ITRF_1997",ELLIPSOID["G |
| | | 433]],VERTCS["ITRF_1997",DATUM["D_ITRF_ | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | 1997",SPHEROID["GRS_1980",6378137.0,298 | ["Meter",1.0]]],CS[vertical,1],AXIS["Ellipsoidal |
| | | .257222101]],PARAMETER["Vertical_Shift",0. | height |
| | | 0],PARAMETER["Direction",1.0],UNIT["Meter | (h)",up,LENGTHUNIT["Meter",1.0]]]],TARGETCRS[V |
| | | ",1.0]],VERTCS["CGVD_1928",VDATUM["Cana | ERTCRS["CGVD_1928",VDATUM["Canadian_Geod |
| | | dian_Geodetic_Vertical_Datum_of_1928"],P | etic_Vertical_Datum_of_1928"],CS[vertical,1],AXIS |
| | | ARAMETER["Vertical_Shift",0.0],PARAMETER[| ["Gravity-related height |
| | | "Direction",1.0],UNIT["Meter",1.0]],VTMETH | (H)",up,LENGTHUNIT["Meter",1.0]]]],INTERPOLATI |
| | | OD["GEOID"],PARAMETER["Interpolation_Ty | ONCRS[GEOGCRS["GCS_ITRF_1997",DYNAMIC[FR |
| | | pe",30.0],PARAMETER["Dataset_NGSD95",0. | AMEEPOCH[1997.0],MODEL["NNR- |
| | | 0],OPERATIONACCURACY[0.6]] | NUVEL1A"]],DATUM["D_ITRF_1997",ELLIPSOID["G |
| | | | RS_1980",6378137.0,298.257222101,LENGTHUNIT |
| | | | ["Meter",1.0]]],PRIMEM["Greenwich",0.0,ANGLEU |
| | | | NIT["Degree",0.0174532925199433]],CS[ellipsoida |
| | | | I,2],AXIS["Latitude |
| | | | (lat)",north,ORDER[1]],AXIS["Longitude |
| | | | (lon)",east,ORDER[2]],ANGLEUNIT["Degree",0.017 |
| | | | 4532925199433]]],METHOD["GEOID"],PARAMETE |
| | | | R["Interpolation_Type",30.0,SCALEUNIT["Unity",1. |
| | | | 0]],PARAMETERFILE["NGSD95"],OPERATIONACCU |
| | | | RACY[0.6]] |