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AIUB's Anonymous FTP Server

Last mod.: 06-Nov-2012

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The anonymous ftp server of the AIUB contains daily updated files resulting from the GNSS data analysis performed for the IGS, in both international and Bernese formats. Additionally, product files from the reprocessing activities of CODE are available. The server may be accessed through

ftp://ftp.unibe.ch/aiub or http://www.aiub.unibe.ch/download

Contents of this file

- General remarks
- Files in Bernese format
 - . Data content in the directories in BSWUSER50
 - . Data content in the directories in BSWUSER52
- CODE product files
- Files from the CODE reprocessing

General remarks

- All filenames are in uppercase.
- Most of the files are UNIX compressed (indicated by the extension .Z).
- We use the following abbreviations for time in the filenames below (menu time variables refer to the respective variables used in the Bernese GNSS Software, since Version 5.0):

Used time abbreviation	Menu time variable	Description
mm	\$M	Month (two digits)
yy	\$Y	Year (two digits)
ddd	\$+0	Day of Year (DOY) (three digits)
dddh	\$S+0	Hourly session (DOY+character indicating the hourly session A..X)
yyyy	\$Y+0	Year (four digits)
www	\$W+0	GPS Week
yymm	\$M+0	Year, Month
wwwd	\$WD+0	GPS Week and Day of week
yyddd	\$YD+0	Year and DOY

Files in Bernese format

The main directory tree for the Bernese users area distinguishes between the versions of the Bernese GPS Software. Currently we have BSWUSER50 and BSWUSER52.

With the introduction of new formats during future developments at AIUB new top-directories like BSWUSER53 may appear. If there are sub-directories from different versions in place they contain the full set of files, but in the respective format. If a file is identical in two versions, the same file will appear in both subdirectories.

Directory	Short comment on content
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BSWUSER50	Files in format for BSW Version 5.0
ATM	Bernese troposphere and ionosphere files
GEN	General BSW files
ORB	Bernese clock, ERP, and DCB files
STA	Bernese station coordinate files
TXT	Diverse text files
 BSWUSER52	 Files in format for BSW Version 5.2
ATM	Bernese troposphere and ionosphere files
GEN	General BSW files
ORB	Bernese clock, ERP, and DCB files
STA	Bernese station coordinate files

Some of the products are stored in yearly subdirectories, e.g.,

<http://www.aiub.unibe.ch/download/BSWUSER52/ATM/yyyy/>

Data content in the directories in BSWUSER50

The following list of files refers to the content of the directory tree BSWUSER50.

Please note that all products are based on a rigorous GNSS (GPS and GLONASS) combined analysis.

ATM contains troposphere and ionosphere files in Bernese format in yearly subdirectories:

yyyy/

CORyyddd.TRP.Z	Troposphere information in Bernese format from rapid solution where final information is not yet available
CORwwwd.ION.Z	Ionosphere files of rapid solution where final information is not yet available
CODyyddd.TRP.Z	Troposphere path delays of final solution

COEyyddd.TRP.Z	Troposphere path delays of EUREF solution
COEyyddd.INX.Z	Ionosphere information in IONEX format from EUREF solution
COEyyddd.ION.Z	Ionosphere information in Bernese format from EUREF solution

GEN contains general files such as DATUM., RECEIVER., SAT_yyyy.CRX, gravity fields, nutation models, and subdaily pole models. Furthermore, several sets of satellite information files (e.g., SATELLIT.I05), antenna phase center files (e.g., PHAS_COD.I05), and ANTEX files (I05.ATX) are located here. We refer to BSWUSER50/TXT/ANTEX_README.pdf for more information.

ORB contains daily updated files containing the P1-P2 and P1-C1 DCB values, respectively, and some ERP files in Bernese Format

P1C1.DCB	CODE moving 30-day P1-C1 DCB solution, Bernese format, containing only the GPS satellites
P1P2.DCB	CODE moving 30-day P1-P2 DCB solution, Bernese format, containing all GPS and GLONASS satellites
P1P2_ALL.DCB	CODE moving 30-day P1-P2 DCB solution, Bernese format, containing all GPS and GLONASS satellites and all stations used
BULLET_A.ERP	Accumulated Bulletin A Earth rotation parameters as of 1992
C04_yyyy.ERP	Yearly files containing the final IERS C04 Earth rotation information

Yearly subdirectories contain the following files in Bernese format:

yyyy/

BRDyyddd.CLK.Z	Broadcast clock information
CORwwwwd.ERP.Z	Daily CODE rapid ERP files where final information is not yet available
CODwww7.ERP.Z	Weekly CODE final ERP files as from week 0978
CODwww7.GCC.Z	Weekly CODE final GCC files as from week 1400
CODyyddd.ERP.Z	Daily CODE final ERP files as from week 1706
CODyyddd.GCC.Z	Daily CODE final GCC files as from week 1706
CODyyddd.CLK.Z	High rate (30 sec) satellite clock corrections from the CODE final IGS solution
CODyyddd.CLK_05S.Z	High rate (5 sec) satellite clock corrections from the CODE final IGS solution
CORyyddd.DCB.Z	Daily P1-P2 DCB estimates of rapid where final information is not yet available
CODyyddd.DCB.Z	Daily P1-P2 DCB estimates of final solution

The daily ERP files CODyyddd.ERP.Z are fully consistent with the CODE final orbits available at URL

<http://www.aiub.unibe.ch/download/CODE/yyyy/CODwwwwd.EPH.Z>

whereas the files CORwwwwd.ERP.Z are consistent with the CODE rapid orbits available at URL

http://www.aiub.unibe.ch/download/CODE/CODwwwd.EPH_R

STA contains the following station related files

CODE.STA	Bernese station information file for all stations included in the CODE processing
FES2004.BLQ	FES2004 ocean tide loading corrections for all stations included in the CODE processing
IGS.STA	Translation of the igs.SNX station information (http://www.igs.org/igscb/station/general/igs.snx)
IGS_FULL.STA	As IGS.STA but keeping individual antenna calibration number
EUREF.STA	Translation of the euref.SNX station information (ftp://ftp.epncb.oma.be/pub/station/general/euref.snx)
EUREF_FULL.STA	As EUREF.STA but keeping individual antenna calibration number

For each ITRF and IGS realizations, we provide three files:

"REFNAM"_R.CRD: fiducial sites coordinate extraction in Bernese format from reference frame "REFNAM"

"REFNAM"_R.VEL: fiducial sites velocity extraction in Bernese format from reference frame "REFNAM"

"REFNAM".FIX: list of fiducial sites of reference frame "REFNAM"

Yearly subdirectories contain the following files in Bernese format:

yyyy/

CODwww7.CRD.Z	Weekly coordinate files of the CODE final global solution as from week 0978
COEwww7.CRD.Z	Weekly coordinate files of the CODE EUREF solution as from week 0886

Data content in the directories in BSWUSER52

The following list of files refers to the content of the directory tree BSWUSER52. They can only be used with version 5.2 of the Bernese GNSS Software.

Please note that this tree is still under development and some files are still missing.

ATM contains troposphere and ionosphere files in Bernese format in yearly subdirectories:

yyyy/

CODyyddd.TRP.Z	Troposphere path delays of final solution
COEyyddd.TRP.Z	Troposphere path delays of EUREF solution
COEyyddd.INX.Z	Ionosphere information in IONEX format from EUREF solution

COEyyddd.ION.Z Ionosphere information in Bernese format from
EUREF solution

GEN contains general files such as DATUM., RECEIVER., SAT_yyyy.CRX .
The input files containing gravity field, nutation model, and
subdaily pole model are placed here for the recommended (default)
models. Input files for alternative models are located in the
subdirectory GEN/ALTERNATIVE_MODELS.
Furthermore, several sets of satellite information files (e.g.,
SATELLIT.I08), antenna phase center files (e.g., PCV_COD.I08),
and ANTEX files (I08.ATX) are located here.

ORB contains daily updated files containing the P1-P2 and P1-C1 DCB
values, respectively, and some ERP files in Bernese format

Yearly subdirectories contain the following files in Bernese format:

yyyy/

CODwww7.ERP.Z	Weekly CODE final ERP files as from week 0978
CODwww7.GCC.Z	Weekly CODE final GCC files as from week 1400
CODyyddd.ERP.Z	Daily CODE final ERP files as from week 1706
CODyyddd.GCC.Z	Daily CODE final GCC files as from week 1706
CODyyddd.CLK.Z	High rate (30 sec) satellite clock corrections from the CODE final IGS solution
CODyyddd.CLK_05S.Z	High rate (5 sec) satellite clock corrections from the CODE final IGS solution
CODyyddd.DCB.Z	Daily P1-P2 DCB estimates of final solution
BRDyyddd.CLK.Z	Broadcast clock information

The daily ERP files CODyyddd.ERP.Z are fully consistent with the
CODE final orbits available at URL

<http://www.aiub.unibe.ch/download/CODE/yyyy/CODwwwd.EPH.Z>

STA contains the following station related files

CODE.STA	Bernese station information file for all stations included in the CODE processing
FES2004.BLQ	FES2004 ocean tide loading corrections for all stations included in the CODE processing
IGS.STA	Translation of the igs.SNX station information (http://www.igs.org/igscb/station/general/igs.snx)
IGS_FULL.STA	As IGS.STA but keeping individual antenna calibration number
EUREF.STA	Translation of the euref.SNX station information (ftp://ftp.epncb.oma.be/pub/station/general/euref.snx)
EUREF_FULL.STA	As EUREF.STA but keeping individual antenna calibration number

For each ITRF and IGS realizations, we provide three files:

"REFNAM"_R.CRD: fiducial sites coordinate extraction in Bernese
format from reference frame "REFNAM"
"REFNAM"_R.VEL: fiducial sites velocity extraction in Bernese
format from reference frame "REFNAM"

"REFNAM".FIX: list of fiducial sites of reference frame "REFNAM"

Yearly subdirectories contain the following files in Bernese format:

yyyy/

CODyyddd.CRD.Z	Daily coordinate files of the CODE final global solution as from week 1706
CODwww7.CRD.Z	Weekly coordinate files of the CODE final global solution as from week 0978
COEwww7.CRD.Z	Weekly coordinate files of the CODE EUREF solution as from week 0886

CODE product files

CODE product files in international format, i.e., precise orbit files in SP3c, clock information in Clock RINEX format, solution files in SINEX format, Earth rotation files in IERS format, ionosphere information in IONEX and Navigation RINEX format, and troposphere information in Troposphere SINEX format, are available in the directory

<http://www.aiub.unibe.ch/download/CODE>

This directory contains the following CODE rapid, ultra-rapid, and predicted GNSS based products:

COD.EPH_U	CODE ultra-rapid orbits, updated every 6 hours
COD.ERP_U	CODE ultra-rapid ERPs belonging to the ultra-rapid orbit product
COD.TRO_U	CODE ultra-rapid troposphere product in SINEX format
COD.SUM_U	Summary of stations used for the latest ultra-rapid orbit
COD.ION_U	Last update of CODE rapid ionosphere product (1 day) complemented with ionosphere predictions (2 days)
COD.EPH_5D	Last update of CODE 5-day orbit predictions, from rapid analysis, including all active GLONASS satellites
CODwwwd.EPH_R	CODE rapid orbits
CODwwwd.EPH_P	CODE 24-hour orbit predictions
CODwwwd.EPH_P2	CODE 48-hour orbit predictions
CODwwwd.EPH_5D	CODE 5-day orbit predictions
CODwwwd.ERP_R	CODE rapid ERPs belonging to the rapid orbits
CODwwwd.ERP_P	CODE predicted ERPs belonging to the predicted 24-hour orbits
CODwwwd.ERP_P2	CODE predicted ERPs belonging to the predicted 48-hour orbits
CODwwwd.ERP_5D	CODE predicted ERPs belonging to the predicted 5-day orbits
CODwwwd.CLK_R	CODE rapid clock product, Clock RINEX format
CODwwwd.TRO_R	CODE rapid troposphere product, SINEX format

CODwwwd.SNX_R.Z	CODE rapid solution, SINEX format
CORGddd0.yyI	CODE rapid ionosphere product, IONEX format
COPGddd0.yyI	CODE 1-day or 2-day ionosphere predictions, in IONEX format
CODwwwd.ION_R	CODE rapid ionosphere product, Bernese format
CODwwwd.ION_P	CODE 1-day ionosphere predictions, Bernese format
CODwwwd.ION_P2	CODE 2-day ionosphere predictions, Bernese format
CGIMddd0.yyN_R	Improved Klobuchar-style coefficients, RINEX format
CGIMddd0.yyN_P	1-day predictions of improved Klobuchar-style coefficients
CGIMddd0.yyN_P2	2-day predictions of improved Klobuchar-style coefficients
P1C1.DCB	CODE sliding 30-day P1-C1 DCB solution, Bernese format, containing only the GPS satellites
P1P2.DCB	CODE sliding 30-day P1-P2 DCB solution, Bernese format, containing all GPS and GLONASS satellites
P1P2_ALL.DCB	CODE sliding 30-day P1-P2 DCB solution, Bernese format, containing all GPS and GLONASS satellites and all stations used
P1P2_GPS.DCB	CODE sliding 30-day P1-P2 DCB solution, Bernese format, containing only the GPS satellites

Yearly subdirectories contain the CODE final products:

yyyy/

CODwwwd.EPH.Z	CODE final GNSS orbits, our official IGS orbit product
CODwwwd.ERP.Z	CODE final ERPs belonging to the final orbits
CODwwwd.CLK.Z	CODE final clock product, Clock RINEX format, with a sampling of 30 sec for the satellite and reference (station) clock corrections, and 5 minutes for all remaining station clock corrections
CODwwwd.CLK_05S.Z	CODE final clock product, Clock RINEX format, with a sampling of 5 sec for the satellite and reference (station) clock corrections, and 5 minutes for all remaining station clock corrections
CODwwwd.SNX.Z	CODE daily SINEX product
CODwwwd.TRO.Z	CODE final troposphere product, SINEX format
CODGddd0.yyI.Z	CODE final ionosphere product, IONEX format
CODwwwd.ION.Z	CODE final ionosphere product, Bernese format
CODwww7.SNX.Z	CODE weekly SINEX product
CODwww7.SUM.Z	CODE weekly summary files
CODwww7.ERP.Z	CODE ERPs from a weekly solution
COXwwwd.EPH.Z	CODE precise GLONASS orbits (for GPS weeks 0990 to 1066)
COXwww7.SUM.Z	CODE weekly summary files of GLONASS analysis
CGIMddd0.yyN.Z	Navigation messages containing improved Klobuchar-style ionosphere coefficients
P1C1yyymm.DCB.Z	CODE monthly P1-C1 DCB solutions, Bernese format, containing only the GPS satellites

P1P2yymm.DCB.Z CODE monthly P1-P2 DCB solutions, Bernese format,
containing all GPS and GLONASS satellites

P1P2yymm_ALL.DCB.Z
CODE monthly P1-P2 DCB solutions, Bernese format,
containing all GPS and GLONASS satellites and all
stations used

As soon as a final product is available the corresponding rapid,
ultra-rapid, or predicted product is removed from the aftp server.

Files from the CODE reprocessing

CODE product files from the reprocessing activity 2011 are available
in the directory

http://www.aiub.unibe.ch/download/REPRO_2011

GEN52 General files such as CONST., DATUM., GPSUTC.,
gravity fields, nutation and subdaily pole models,
as well as Earth and ocean tide models.

PCV_COD.I08 Antenna phase center file
SAT_1452.I08 Satellite information file
SAT_yyyy.CRX Yearly satellite problem files

REF52

CODE.STA	Station information file (Format version 1.01)
CODE.ABB	Station abbreviation table
CODE.CLU	Cluster definition file
ATM_VAPL.ATL	S1 and S2 atmospheric tidal coefficients
EOP08C04.ERP	Earth rotation parameters
FES2004.BLQ	Ocean loading displacements (as of 26-Apr-2011)
IGS08COD.SNX	SINEX file containing coordinates and velocities of the IGS08 fiducial sites

BSWUSER52
yyyy/

CODyyddd.TRP.Z	Troposphere information files
CODwww7.CRD.Z	Weekly coordinate files
CODwww7.ERP.Z	Weekly final Earth rotation parameter files, Bernese format
CODwww7.GCC.Z	Weekly geocenter coordinate files

CODE
CODE_REPRO_2011.ACN Analysis strategy summary

yyyy/

CODwwwd.EPH.Z	Final GNSS orbits
CODwww7.ERP.Z	Weekly final Earth rotation parameter files, IERS format

CODwww7.SNX.Z Weekly SINEX product

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