Federal Aviation Administration

AIS Open Data

Data Structure and Organization

Revsion Date 12/02/2021

For Questions or Comments Please contact:
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General Information

Enroute Data Sets (All data sets, excluding those mentioned below)

With the exception of the Stadiums and DOF data sets, each feature will indicate which Enroute chart type they appear on. Datasets may include all features of that type in the US regardless of inclusion on an Enroute chart.

All Enroute data will be posted as pending data approximately 20 days prior to the next effective date. On the 56 day effective date it will be re-published as the current dataset. Pending data will be found in the pending version of the data set (example Airports Pending). During the time between the Effecitve data and the next pending data publication, both the pending version and the Effective datasets should match (example Airports Pending and Airports should be identical). This is to prevent cusotmers who are using the APIs from having to update their services every time the data is updated.

Stadium Data Set

This file contains Temporary Flight Restriction (TFR) data in support of Notice to Airmen 4/3621 SPECIAL SECURITY NOTICE SPORTING EVENTS.

Each record identifies a sporting event venue that meets the criteria specified in NOTAM 4/3621. Times of use or active times are not included. The data consists of the visual geographic center point of the venue locations, with other supplemental info (data dictionary attached). The data will be updated on a 28 day cycle concurrent with ICAO AIRAC effective dates.

Aeronautical Information Services welcomes any comments, suggestions and inquiries regarding this information.

Obstacle Dataset

This file contains all obstacles currently published in the FAA Digital Obstacle File (DOF). The primary difference between the two publications is that this dataset is geospatial.

The dataset only contains obstruction data for those man-made objects which affect domestic aeronautical charting products and does not purport to indicate the precence of all obstructions which may be encountered. This is a listing of verified and unverified obstacles in the United States with limited coverage of the Pacific, the Caribbean, Canada, Mexico, and the Bahamas. The dataset will be updated every 56 days.

Airspace Schedule

This file contains LAANC specific locations with airspace volumes that transition between controlled and uncontrolled airspace. The data indicate the controlled airspace time periods, and reflect the current published chart data. This dataset will follow the same publication frequency as the other Enroute Datasets.

General Information

National Defense Airspace TFR Areas

The FAA is providing lateral boundary information related to certain long-term, security related Temporary Flight Restrictions (TFR) to alert users that they should consult NOTAMs when planning to transit these areas. These areas include select Title 14 Code of Federal Regulations (CFR) Part 99.7 (Special Security Instructions), Part 91.141 (Flight Restrictions in the Proximity of the President and Other parties) and Part 91.139 (Emergency Air Traffic Rules) security related TRFs of extended duration with fixed and unchanging boundaries.

Sample VFR Navigation Landmark Dataset

At the present time it is being provided as a sample only. There will only be a pending version available. The dataset will contain Sectional chart datat corresponding to the Contiguous US charts ONLY. The timeline for expansions will be determined at a future date.

Schema Changes

NavaidComponent - Updated Effective 12/02/21

In conjunction with the NextGen DME program enhancements to FAA Performance-Based Navigation programs, the current Standard Service Volumes (SSV) for VOR/DME/TACAN systems are being augmented. The ADDS NavaidComponent dataset has been enhanced to support separate SSV values (also referred to as Frequency Protected Service Volume (FPSV) in FAA Order 6050.32B CHG 3). A new field called SSV has been added to the dataset. The domain set for VOR related SSV includes High (H), Low (L), Terminal (T), VOR Low (VL), and VOR High (VH). The domian set for DME related SSV includes DME High (DH), DME Low (DL), High (H), Low (L), and Terminal (T).

AIRPORTS				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		Runway: Airport_ID
IDENT	Text	FAA Identifier of the airport		
NAME	Text	Name of the Airport		
LATITUDE	Text	Latitude of the airport reference point		
LONGITUDE	Text	Longitude of the airport reference point		
ELEVATION	Double	Airport/Aerodrome Elevation measured in feet above or below mean sea level		
ICAO_ID	Text	Airport/Aerodrome ICAO identification or ICAO location Indicator		
APT_TYPE	Text	Airport/Aerodrome or Heliport Type	AD - Aerodrome BP - Ballon Port GL - Glider Port HP - Heliport SP - Seaport UL - Ultra Light	
SERVCITY	Text	Airport/Aerodrome Associated Service City; associated city name for public and private airports.		
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
OPERSTATUS	Text	Operational Status of the Airport	CLOSED -- Closed Permanently OPERATIONAL - Operational INDEFINITE - Closed Indefinitely	
PRIVATUSE	Short Integer	Indicates if an airport is Public or Private	0 - Public 1 -Private	

AIRPORTS				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
IAPEXISITS	Short Integer	Indicates if the Airport has a published Instrument Approach Procedure /Radar Minima	0 - No 1 -Yes	
DODHIFLIP	Short Integer	Indicates if an Instrument Approach Procedure /Radar Minima is published in the High Altitude Department of Defense Flight Information Publications	0 - No 1 -Yes	
FAR91	Short Integer	Indicates if an airport is subject to Federal Aviation Regulation Part 91, Special Requirements, Special Air Traffic Rules	0 - No 1 -Yes	
FAR93	Short Integer	Indicates if an airport is subject to Federal Aviation Regulation Part 93 Special Requirements	0 - No 1 -Yes	
MIL_CODE	Text	Military/Civil Code	ALL - Joint Use CIVIL - Civilain MIL - Military	
AIRANAL	Text	Airport Airspace Analysis Determination	CONDITIONAL NOT ANALYZED NO OBJECTION	
AK_LOW	Short Integer	On Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	On Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	On U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	On U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Airspace Schedule				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
FAA_ID	Text	FAA Airport Identifier		
Airspace_ID	Text	GLOBAL_ID of the Class Airspace to which the Airspace Schedule is related		Class Airspace: GLOBAL_ID
APPLIES	Text	This data field indicates the controlled airspace time periods. The data are encoded as an XML text string based on: AIXM 5.1.1 Specification, Temporality Concept (version 1.1), Properties with schedule (Timesheets). The data schema and descriptions of attributes are shown in the appendix. During periods outside of the schedule, the airspace volume is uncontrolled.		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		

ATS Routes				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
IDENT	Text	Route Identifier		
TYPE_CODE	Text	Route Type	CONV - Navaid Based Route ADV - Advisory Route OCEAN- Oceanic Route RNAV - Area Navigation GRNAV - Ground Based RNAV SUB - Substitute Route UCON - Uncontrolled Route DIR - Direct or Track	
LEVEL	Text	Flight Level of the Route	U - High Altitude L - Low Altitiude B - Both	
WKHR_CODE	Text	Indicates if the route is only single directional certain hours	RMK - As Specified in Remarks	
WKHR_RMK	Text	Hours during which a route is single directional		
MAA_VAL	Double	Value of the Maximum Authorized Altitude of flight		
MAA_UOM	Text	Unit of Measure for the Maximum Authorized Altitude of flight	FL - Flight Level FT - Feet	
MEA_E_VAL	Double	Value of the Minimum Enroute Altitude in the Eastern Direction		
MEA_E_UOM	Text	Unit of Measure for the Minimum Enroute Altitude in the Eastern Direction	FL - Flight Level FT - Feet	
MEA_W_VAL	Double	Value of the Minimum Enroute Altitude in the Western Direction		

ATS Routes				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
MEA_W_UOM	Text	Unit of Measure for the Minimum Enroute Altitude in the Western Direction	FL - Flight Level FT - Feet	
GMEA_E_VAL	Double	Value of the GNSS Minimum Enroute Altitude in the Eastern Direction		
GMEA_E_UOM	Text	Unit of Measure for the GNSS Minimum Enroute Altitude in the Eastern Direction	FL - Flight Level FT - Feet	
GMEA_W_VAL	Double	Value of the GNSS Minimum Enroute Altitude in the Western Direction		
GMEA_W_UOM	Text	Unit of Measure for the GNSS Minimum Enroute Altitude in the Western Direction	FL - Flight Level FT - Feet	
DMEA_VAL	Double	Value of the DME/DME/IRU Minimum Enroute Altitude of flight		
DMEA_UOM	Text	Unit of Measure for the DME/DME/IRU Minimum Enroute Altitude of flight	FL - Flight Level FT - Feet	
MOCA_VAL	Double	Value of the Minimum Obstruction Clearance Altitude		
MOCA_UOM	Text	Unit of Measure for the Minimum Obstruction Clearance Altitude	FL - Flight Level FT - Feet	
MEAGAP	Short Integer	Indicates if a Route's Minimum Enroute Altitude is established with a gap in navigation signal coverage	0 -No 1 - Yes	
TRUETRK	Double	Route forward True Bearing (Calculated Point to Point) Available for all route types		

ATS Routes				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
MAGTRK	Double	Route forward Magnetic Bearing (Calculated Point to Point) Available for all Route types		
REVTRUETRK	Double	Route reverse True Bearing (Calculated Point to Point) Available for all Route Types		
REVMAGTRK	Double	Route reverse Magnetic Bearing (Calculated Point to Point) Available for all route types		
NMAGTRK	Double	Route forward Magnetic Bearing (Calculated Between two Navaids and/or and Route Turning Point(Dogleg)) Only Available for Routes with Type_Code = CONV Enroute charts will begin to use this value on the following schedule: 02/01/2018 - AK High, AK Low, Pacific 03/29/2018 - US High 05/24/2018 - US Lows and Areas		

ATS Routes

Field	Field Type	Description	Domain Values	Relationships
NREVMAGTRK	Double	Route reverse Magnetic Bearing (Calculated Between two Navaids and/or Route Turning Point(Dogleg)) Only Available for Routes with Type_Code = CONV Enroute charts will begin to use this value on the following schedule: 02/01/2018 - AK High, AK Low, Pacific 03/29/2018 - US High 05/24/2018 - US Lows and Areas		
LENGTH_VAL	Double	Value of the Distance from Route Start Point to Route End Point		
COPDIST	Double	Distance from Navaid to Changeover Point		
COPNAV_ID	Text	Navaid System Record on which the COPDIST value is based		Navaid System : GLOBAL_ID
REPATCSTAR	Text	Compulsory Status of Route Start Point	C - Compulsory all Altitudes C-LOW - Compulsory Low Altitude Only C-HIGH - Compulsory High Altitude Only R - On Request/Non-Compulsory	
REPATCEND	Text	Compulsory Status of Route End Point	C - Compulsory all Altitudes C-LOW - Compulsory Low Altitude Only C-HIGH - Compulsory High Altitude Only R - On Request/Non-Compulsory	
DIRECTION	Text	Route Direction	E - Eastbound Only W - Westbound Only BE - Both directions BW - Both Directions	
FREQ_CLASS	Text	Frequency Class of Navaids used to establish route segement Not used for RNAV routes	A - UHF/VHF B - LF/MF	

ATS Routes

Field	Field Type	Description	Domain Values	Relationships
STATUS	Short Integer	Indicates whether the Route is Usable or Unusable	0 - Not Usable 1 - Usable Null - Usable	
STARTPT_ID	Text	GLOBAL_ID of DesignatedPoint at which Route starts		Designated Point : Global_ID
ENDPT_ID	Text	GLOBAL_ID of DesignatedPoint at which Route ends		Designated Point : Global_ID
RTPORT_ID	Text	GLOBAL_ID of related RoutePortion record		Route Portion : Global_ID
ENRINFO_ID	Text	GLOBAL_ID of related EnrouteInformation record		Enroute Information : Global_ID
WIDTHRIGHT	Double	Value of the Route Width to the Right of the Centerline		
WIDTHLEFT	Double	Value of the Route Width to the Left of the Centerline		
WIDTH_UOM	Text	Unit of Measure for the Route Width	NM - Nautical Miles	
MCA1_VAL	Double	Value of the first Minimum Crossing Altitude		
MCA1_UOM	Text	Unit of Measure for the first Minimum Crossing Altitude	FT - Feet	
MCA1_DIR	Text	Direction of the first Minimum Crossing Altitude	N - North S - South E -East W - West NE - North East NW - North West SE - South East SW - South West	
MCA2_VAL	Double	Value of the second Minimum Crossing Altitude		
MCA2_UOM	Text	Unit of Measure for the second Minimum Crossing Altitude	FT - Feet	

ATS Routes				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
MCA2_DIR	Text	Direction of the second Minimum Crossing Altitude	N - North S - South E -East W - West NE - North East NW - North West SE - South East SW - South West	
MCAPT_ID	Text	GLOBAL_ID of the Point at which the Minimum Crossing Altitude is located		Designated Point : Global_ID Navaid System : Global_ID
MCAPT_TYPE	Short Integer	Indicates whether the Point at which the Minimum Crossing Altitude is located is a DesignatedPoint or a NavaidSystem	0 - Navaid System 1 - Designated Point	
TFLAG_CODE	Short Integer	Indicates if there is a change in Altitude at Start Point, End Point, Both, or None	0 - None 1 - Start Point 2 - End Point 3 - Both	
REMARKS	Text	Remarks for the Route		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		

Boundary Airspace

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
IDENT	Text	Identifier of the Airspace		
NAME	Text	Name of the Airspace		
TYPE_CODE	Text	Type of Airspace	ACC - Area Control Center ADIZ - Air Defense Identification Zone ARTCC - Air Route Traffic Control Center CLASS - Airspace having a specified Class CTA - Control Area CTA-P - Part of a Control Area FIR - Flight Information Region OCA - Oceanic Control Area TMA - Terminal Control Area UTA - Upper Control Area	
CLASS	Text	Indicates which Type of Class Airspace		
LOCAL_TYPE	Text	Subtype of the Airspace		
ICAO_ID	Text	International Civil Aviation Organization Identifier of the Airspace		
SECTOR	Text	Sector of the airspace		
LEVEL	Text	Indicates if the Level of the Airspace is Upper, Lower, or Both	U - High Altitude L - Low Altitiude B - Both High and Low Altitude	
UPPER_DESC	Text	Description of the Upper Limit value's inclusion in the Airspace	NULL - Not Applicable AA - And Above TI - To and Including TNI - To but not including	
UPPER_VAL	Double	Value of the Upper Limit of the Airspace		
UPPER_UOM	Text	Unit of Measure for the Upper Limit of the Airspace	FL - Flight Level FT - Feet	

Boundary Airspace

Field	Field Type	Description	Domain Values	Relationships
UPPER_CODE	Text	Code for the Upper Limit of the Airspace	MSL - Mean Sea Level STD - Standard Atmospheric Pressure UNLTD - Unlimited	
LOWER_DESC	Text	Description of the Lower Limit value's inclusion in the Airspace	NULL - Not Applicable ANI - Above but not Including	
LOWER_VAL	Double	Value of the Lower Limit of the Airspace		
LOWER_UOM	Text	Unit of Measure for the Lower Limit of the Airspace	FL - Flight Level FT - Feet	
LOWER_CODE	Text	Code for the Lower Limit of the Airspace	MSL - Mean Sea Level STD - Standard Atmospheric Pressure SFC - Surface	
COMM_NAME	Text	Name of the Communication Outlet for the Airspace		
ONSHORE	Short Integer	Indicates whether the Airspace is On-Shore or not	0 - Off Shore 1 - On Shore	
EXCLUSION	Short Integer	Indicates whether the Airspace is an Exclusion Area or not	0 - not an exclusion area 1 - polygon is an exclusion area	
WKHR_CODE	Text	Indicates if the Airspace is only used certain hours	H24 - Continuous RMK - See WKHR_RMK field for details	
WKHR_RMK	Text	Hours during which the Airspace is used		
CITY	Text	City Name		
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
ADHP_ID	Text	GLOBAL_ID of the Airport to which the Airspace is related		Airport : GLOBAL_ID
MIL_CODE	Text	Indicates if the Airspace is Civil or Military	CIV - CIVIL CIVIL - CIVIL	
REMARKS	Text	Remarks for the Airspace		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	

Boundary Airspace				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		
SHAPE_Area	Double	Internal Database Field		

Change Over

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
ENRINFO_ID	Text	GLOBAL_ID of related EnrouteInformation record		Enroute Information : GLOBAL_ID
DISTANCE1	Double	Value of the Distance from first Navaid to Changeover Point		
DISTANCE2	Double	Value of the Distance from second Navaid to the ChangeOver point		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Class Airspace

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
IDENT	Text			
ICAO_ID	Text			
NAME	Text	Name of the Class Airspace		
TYPE_CODE	Text	Type of Class Airspace	BZ - Buffer Zone CLASS - Airspace having a specified Class CTA - Control Area CTR - Control Zone MODE-C - Mode-C Transponder Area TMA - Terminal Control Area TMA-P - Part of a Terminal Control Area	
CLASS	Text	Indicates which Type of Class Airspace		
UPPER_DESC	Text	Description of the Upper Limit value's inclusion in the Airspace	AA - And Above ANI - Above but not Including TI - To and Including TNI - To but not Including	
UPPER_VAL	Double	Value of the Upper Limit of the Class Airspace		
UPPER_UOM	Text	Unit of Measure for the Upper Limit of the Class Airspace	FL - Flight Level FT - Feet	
UPPER_CODE	Text	Code for the Upper Limit of the Class Airspace	BYNOTAM - Given By NOTAM MSL - Mean Sea Level SFC - Surface STD - Standard Atmosphere UNLTD - Unlimited	
LOWER_DESC	Text	Description of the Lower Limit value's inclusion in the Airspace	NULL - Not Applicable AA - And Above ANI - Above but not Including	
LOWER_VAL	Double	Value of the Lower Limit of the Class Airspace		

Class Airspace

Field	Field Type	Description	Domain Values	Relationships
LOWER_UOM	Text	Unit of Measure for the Lower Limit of the Class Airspace	FL - Flight Level FT - Feet	
LOWER_CODE	Text	Code for the Lower Limit of the Class Airspace	MSL - Mean Sea Level SFC - Surface STD - Standard Atmosphere	
LEVEL_CODE	Text	Indicates if the Level of the Class Airspace is Upper, Lower, or Both	U - High Altitude Only L - Low Altitidue Only B - Both High and Low Altitude	
CITY	Text	City Name		
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
CONT_AGENT	Text	Controlling Agency of the Class Airspace		
MIL_CODE	Text			
COMM_NAME	Text	Name of the Communication outlet for the Class Airspace		
SECTOR	Text	Sector of the airspace if applicable		
ONSHORE	Short Integer	Indicates whether the Class Airspace is On-Shore or not		
EXCLUSION	Short Integer	Indicates whether the Class Airspace is an Exclusion Area or not	0 - Not an Exclusion 1 - Is an Exclusion Area	
WKHR_CODE	Text	Indicates if the Airspace is only used certain hours	H24 - Continuous RMK - See WKHR_RMK field for details	
WKHR_RMK	Text	Hours during which the Airspace is used		
GMTOFFSET	Text	Hour Offset from Greenwich Mean Time		
DST_CODE	Text	Indicates if Daylight Savings Time is observed	0 - No Daylight Savings Time 1 - Adjust for Daylight Savings Time	
REMARKS	Text	Remarks for the Class Airspace		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	

Class Airspace				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		
SHAPE_Area	Double	Internal Database Field		

Clearance

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
LATITUDE	Text	Latitude of the bin center point		
LONGITUDE	Text	Longitude of the bin center point		
TYPE_CODE	Text	Type of Clearance	OROCA - Off Route Obstruction Clearance Altitude ORTCA - Off Route Terrain Clearance Altitude	
BIN_SIZE	Text	Indicates the size of the bin covered by the Clearance value. If the tyoe is OROCA or ORTCA, then the value reflects data with a 4NM buffer around the edge of the bin.	1x1 - 1 degree of Lat by 1 degree of Long, centered on the Lat and Long provided 30x1 - 30 min of Lat by 1 degree of Long, centered on the Lat and Long provided 30x30 - 30 min of Lat by 30 min of Long, centered on the Lat and Long provided	
VALUE	Short Integer	Indicates the elevation value of the clearance within in the bin centered on the Latitude and Longitude provided.		
UOM	Text	Indicates the unit of measure for the clearance value	0 - No 1 -Yes	
AK_LOW	Short Integer	On Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	On Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	On U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	On U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	

Clearance				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Designated Points				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		ATSRoutes : STARTPT_ID ATSRoutes : ENDPT_ID ATSRoutes : MCAPT_ID
REMARKS	Text	Remarks for the DesignatedPoint		
IDENT	Text	Identifier of the DesignatedPoint		
LATITUDE	Text	Latitude of the DesignatedPoint		
LONGITUDE	Text	Longitude of the DesignatedPoint		
TYPE_CODE	Text	Type of DesignatedPoint	CNF - Computer NavFix GND - Ground Based Waypoint GPS - GPS Waypoint MB - Mileage Breakdown MRPT - Military Reporting Point NRS - Navigation Reference System Waypoint RNAV - RNAV Waypoint RPT - Reporting Point WPT - Waypoint	
MIL_CODE	Text	Indicates if the DesignatedPoint is Civil or Military	CIVIL - Non Military MIL - Military Only OTHER - Other (Only used with MB Type_Code)	
REPATC	Text	Compulsory Status	C - Compulsory all Altitudes C-LOW - Compulsory Low Altitude Only C-HIGH - Compulsory High Altitude Only R - On Request/Non-Compulsory N - No Report	
MAGVAR	Double	Value of the Magnetic Variation for the DesignatedPoint		
MAGVAR_DT	Date	Date of the Magnetic Variation for the DesignatedPoint		
ONSHORE	Short Integer	Indicates if the DesignatedPoint is within the US 12 Nautical Mile Maritime Limit	0 - No 1 -Yes	

Designated Points				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
STRUCTURE	Text	Indicates the Chart Structures in which the DesignatedPoint is used		
REFFAC	Text	Navaid on which a Ground Based Waypoint is defined		Navaid System : GLOBAL_ID
MRA_VAL	Double	Value of the Minimum Reception Altitude		
MRA_UOM	Text	Unit of Measure for the Minimum Reception Altitude	FT - Feet	
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Enroute Information

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		ATSRoute : ENRINFO_ID
DISTANCE	Double	Total Route Distance from Navaid to Navaid		
DOGLGPT_ID	Text	GLOBAL_ID of the first DesignatedPoint located at Route Turning Point (DogLeg) between two NavaidsDoglegs are added in order with respect to the forward direction of the route geometry.		Designated Point : GLOBAL_ID
DOGLGPTID2	Text	GLOBAL_ID of the second DesignatedPoint located at Route Turning Point (DogLeg) between two Navaids Doglegs are added in order with respect to the forward direction of the route geometry.		Designated Point : GLOBAL_ID
DOGLGPTID3	Text	GLOBAL_ID of the third DesignatedPoint located at Route Turning Point (DogLeg) between two Navaids Doglegs are added in order with respect to the forward direction of the route geometry.		Designated Point : GLOBAL_ID
	Text	GLOBAL_ID of the fourth DesignatedPoint located at Route Turning Point (DogLeg) between two Navaids Doglegs are added in order with respect to the forward direction of the route geometry.		Designated Point : GLOBAL_ID
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	

Enroute Information				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Frequency

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
REMARKS	Text	Remarks for the Frequency		
FREQ_TRANS	Double	Value of the Transmit portion of the Frequency		
FREQ_REC	Double	Value of the Receive portion of the Frequency		
FREQ_UOM	Text	Unit of Measure for the Frequency	H - Hertz	
TYPE_CODE	Text	Type of Frequency	NULL - Not Applicable ADV - Advisory BOTH - Both Primary and Advisory PRI - Primary	
SERVICE_ID	Text	GLOBAL_ID of the Service to which the Frequency is related		Serivce : GLOBAL_ID
FREQ_ALT	Text	Indicates what Altitudes the Frequency is available	NULL - Not Applicable 0 - Low Alitude Only 1 - High Altitude Only 2 - Both High and Low Altitude 3 - Ultra High Altitude Only	
FREQ_USAGE	Text	Indicates how the Frequency is used	A - Approach BLANK - Not Applicable D - Discrete DUP - Dial-up O - Oceanic OTHER - Other	
AK_LOW	Short Integer	On Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	On Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	On U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	On U.S. Enroute High Chart	0 - No 1 -Yes	

Frequency				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Holding Pattern

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
IDENT	Text	Holding Pattern Number		
NAME	Text	Name of Holding Pattern		
LATITUDE	Text	Latitude of the Designated Point at which the Holding Pattern is located		
LONGITUDE	Text	Longitude of the Designated Point at which the Holding Pattern is located		
CRSOUT	Double	Value of the Outbound Course		
CRSOUT_TYP	Text	Type of Outbound Course	OTHER - RNAV RAD - VOR Radial TBRG - True bearing TT - True track	
CRSIN	Double	Value of the Inbound Course		
DIRTURN	Text	Indicates whether the Holding Pattern is a Right Turn or Left Turn	L - Left R - Right	
SPEEDLIMIT	Double	Value of the Holding Pattern Speed		
SPLIM_UOM	Text	Unit of Measure for the Holding Pattern Speed	KT - Knots	
REFPT_ID	Text	GLOBAL_ID of the Point at which the Holding Pattern is located		Navaid System : GLOBAL_ID Designated Point : GLOBAL_ID
REFPT_CL	Short Integer	Indicates whether the Point at which the Holding Pattern is located is a DesignatedPoint or a NavaidSystem	0 - Navaid System 1 - Designated Point	
NAVSYS_ID	Text	GLOBAL_ID of the NavaidSystem that makes up the Holding Pattern		Navaid System : GFID
STRUCTURES	Text	Indicates the Chart Structures in which the Holding Pattern is used		

Holding Pattern

Field	Field Type	Description	Domain Values	Relationships
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

ILS Component				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
IDENT	Text	Identifier of the ILS Component		
NAME	Text	Name of the ILS Component		
LATITUDE	Text	Latitude of the ILS Component		
LONGITUDE	Text	Longitude of the ILS Component		
FREQUENCY	Double	ILS Component frequency		
MAGVAR	Double	Magnetic Variation of the ILS Component		
ILS_TYPE	Long Integer	Sub-Type of ILS Component	0 - MARKER 1 - NDB 2 - DME 7 - Localizer 8 - GlidePath	
TYPE_CODE	Text	Type of ILS Component	If ILS_TYPE = 0 1 - Marker 2 - Compass Locator Beacon 3 - NDB 4 - Marker/Compass Locator Beacon 5 - Marker/NDB If ILS_TYPE = 1 COMLO - Compass Locator Beacon If ILS_TYPE = 2, 7, or 8 N/A	
ILSSYS_ID	Text	GLOBAL_ID of the related ILS NavaidSystem		ILS System : GLOBAL_ID

ILS Component				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
CLASS	Text	Class of the ILS Component	If ILS_TYPE = 0 FM - Fan Marker If ILS_TYPE = 1 L - Locator Beacon If ILS_TYPE = 2, 7, or 8 N/A	
CHANNEL	Text	ILS Component Channel		
VOICE	Short Integer	Indicates whether the ILS Component is with or without Voice	0 - No Voice 1 - Voice	
STATUS	Text	Indicates whether the ILS Component is In Service or Out of Service	DECOMM - Decommisioned IFR - Operational IFR OTHER - Other RESTRICTED - Operational Restricted	
BCKCRS_STS	Short Integer	Indicates whether the ILS Back Course is Usable, Unusable, Restricted, or No Restrictions	Null 0 - No Restrictions 1 - Restricted 2 - Usable 3 - Unusable	
BCKCRS_USE	Text	Associated Radial Bearing Feature is on the ILS back course	0 - No 1- Yes	
MAGBRG	Double	Value of the Magnetic Approach Bearing of the ILS		
MARKER_LOC	Text	Indicates whether the ILS Component Position is Inner, Middle, or Outer	I - Inner Marker M - Middle Marker O - Outer Marker	
SLAVEVAR	Double	Value of the Slaved Magnetic Variation for the ILS Component		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	

ILS Component				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

ILS System

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
REMARKS	Text	Remarks for the ILS		
ILS_TYPE	Long Integer	Sub-Type of ILS	13 - Localizer Approach System 14 - Instrument Landing System	
IDENT	Text	Identifier of the ILS		
CAT_CODE	Text	Indicates whether the ILS is Category I, Category I, or Category III	NULL - unknown	
CHANNEL	Text	ILS Channel		
NAS_USE	Short Integer	Indicates if the ILS is used in the National Airspace System	0 - No 1 -Yes	
CLASS	Text	Class of ILS	NULL - unknown	
NAME	Text	Name of ILS		
CITY	Text	City Name		
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

MTR Segment				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
IDENT	Text	Indentifier of the Military Training Route		
NAME	Text	Name of the Military Training Route		
UPPER_VAL	Double	Value of the Upper Limit		
UPPER_UOM	Text	Unit of Measure for the Upper Limit	FL - Flight Level FT - Feet	
UPPER_CODE	Text	Indicates what type of measurement is used for the Upper Limit	ALT - Altitude HEI - Height above ground STD - Standard Atmospheric Pressure	
LOWER_VAL	Double	Value of the Lower Limit		
LOWER_UOM	Text	Unit of Measure for the Lower Limit	FL - Flight Level FT - Feet	
LOWER_CODE	Text	Indicates what type of measurement is used for the Lower Limit	ALT - Altitude HEI - Height above gound SFC - Surface	
MTR_TYPE	Long Integer	Indicates whether the Military Training Route is an IFR Route or a VFR Route	0 - IFR Route 1 - VFR Route	
ROUTETYPE	Text	Segment Type of the Military Training Route Segment	A - Alternate Entry Route E - Entry Route N - Normal R - Re-entry Route T - Transition Route X - Alternate Exit	
COUNTRY	Text	Country Name		
WIDTHLEFT	Short Integer	Value of the Segment Width to the Left of the Centerline		
WIDTHRIGHT	Short Integer	Value of the Segment Width to the Right of the Centerline		

MTR Segment				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		

National Defense Airspace TFR Areas

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
NAME	Text	Name of the National Defense Airspace Area		
TYPE_CODE	Text	Type of National Defense Airspace Area	DEF- Defense Area	
LOCAL_TYPE	Text	Subtype of the Area	NDA_TFR - National Defense Airspace Area TFR	
WKHR_CODE	Text	Indicates if the Operational Hours of the Area	H24 - Continuous RMK - See WKHR_RMK field for details	
WKHR_RMK	Text	Specific Hours during which the Area is active	BY NOTAM - See NOTAMs for details	
CITY	Text	City Name		
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
SHAPE_Length	Double	Internal Database Field		
SHAPE_Area	Double	Internal Database Field		

Navaid Component - Updated Effective 12/02/2021				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
IDENT	Text	Identifier of the Navaid Component		
NAME	Text	Name of the Navaid Component		
LATITUDE	Text	Latitude of the Navaid Component		
LONGITUDE	Text	Longitude of the Navaid Component		
WKHR_CODE	Text	Indicates whether the Navaid Component is Operational Continuously or not	H24 - Continuous Operation RMK - See WKHR_RMK for hours NULL - Considered Continuous Operation	
WKHR_RMK	Text	Times the Navaid Component is Operational		
ELEVATION	Double	Elevation of the Navaid Component		
FREQUENCY	Double	Frequency of the Navaid Component		
MAGVAR	Double	Magnetic Variation of the Navaid Component		
MAGVAR_DAT	Text	Date of the Magnetic Variation of the Navaid Component		
NAV_TYPE	Long Integer	Sub-Type of Navaid Component	1 - NDB 2 - DME 3 - VOR 4 - TACAN	
TYPE_CODE	Text	Type of Navaid Component	If NAV_TYPE = 1 COMLO - Compass Locator Beacon If NAV_TYPE = 2, 3, 4 N/A	

Navaid Component - Updated Effective 12/02/2021				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
SSV	Text	Standard Service Volume of the Navaid Component. Only applies to non NDB NAV_TYPE values when the NavaidComponent is related to a NavaidSystem of the following Type_Codes: 5, 6, 7, 8, 9	DH - DME High DL - DME Low H - High L - Low T - Terminal VH - VOR High VL - VOR Low	
NAVSYS_ID	Text	GLOBAL_ID of the related NavaidSystem		Navaid System : GLOBAL_ID
AWYSTRUC	Short Integer	Indicates the Airway Structures in which the Navaid Component is used		
CHANNEL	Text	Navaid Component Channel		
STATUS	Short Integer	Indicates whether the Navaid Component is In Service or Out of Service	0 - Out of Service 1 - In Service 2 - On Test 3 - Abnormal	
VOICE	Short Integer	Indicates whether the Navaid Component is with or without Voice	0 - No Voice 1 - Voice	
SLAVEVAR	Double	Value of the Slaved Magnetic Variation for the Navaid Component		
PRIVATE	Text	Indicates whether the Navaid Component is for Public or Private Use	0 - Public 1 - Private	
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	

Navaid Component - Updated Effective 12/02/2021				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Navaid System				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
TYPE_CODE	Long Integer	Type of Navaid	3 - NDB 4 - NDBDME 5 - DME 6 - VORDME 7 - VOR 8 - VORTAC 9 - TACAN	
IDENT	Text	Identifier of the Navaid		
CHANNEL	Text	Navaid Channel		
NAS_USE	Short Integer	Indicates if the Navaid is used in the National Airspace System	0 - No 1 -Yes	
CLASS_TXT	Text	Class of Navaid		
NAME_TXT	Text	Name of Navaid		
CITY	Text	City Name		
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
STATUS	Text	Operational Status of the Navaid System	CLOSED - Out of Service IFR - Operational IFR RESTRICTED - Operational Restricted	
REMARKS	Text	Remarks for the Navaid		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	

Navaid System				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

NOTES				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
LATITUDE	Text	Latitude of the Note feature		
LONGITUDE	Text	Longitude of the Note feature		
TYPE_CODE	Short Integer	Indicates which Type of Note the feature is	0 - No Specific Type 1 - General Note 2 - Caution Note 4 - Restricted 15 - Communication 25 - Unuseable Radial 27 - Other ATS Note 28 - Description 30 - Disclaimer	
REF_ID	Text	GLOBAL_ID of the related feature for the Note		ATSRoute : GLOBAL_ID Designated Point : GLOBAL_ID
REF_CLASS	Double	Indicates what feature type the Note is related to	ATSRoute Designated Point	
COUNTRY	Text	Country of the Note		
NOTE	Text	Text of the Note (NOTE and NOTE_CONT must be combined to get the full text of the note if it is longer then 250 characters.)		
NOTE_CONT	Text	Continuation of the Note Text (NOTE and NOTE_CONT must be combined to get the full text of the note if it is longer then 250 characters.)		
REMARKS	Text	Remarks about the Note feature		
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	

NOTES				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Obstacles

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
OAS_Number	Text	Unique Identifier of the Obstacle		
Verified	Text	Verification Status of the Obstacle	O - Verified U - Unverified	
Country	Text	Country Code		
State	Text	State Code		
City	Text	Nearest City to the Obstacle location		
Lat_DMS	Text	Latitude of of Obstacle location in Degrees Minutes Seconds		
Long_DMS	Text	Longitude of of Obstacle location in Degrees Minutes Seconds		
Lat_DD	Text	Latitude of of Obstacle location in Decimal Degrees		
Long_DD	Text	Longitude of of Obstacle location in Decimal Degrees		
Type_Code	Text	Obstacle Type		
Quantity	Text	Number of Obstacles represented by feature		
AGL	Short Integer	Height above ground level in feet		
AMSL	Short Integer	Height above mean sea level in feet		
Lighting	Text	Type of Lighting on Obstacle	R - Red D - Medium intensity white strobe & red H - High intensity white strobe & red M - Medium intensity white strobe S - High intensity white strobe F - Flood C - Dual Medium Catenary W - Synchronized Red Lighting L - Lighted (Type unknown) N - None U - Unknown	

Obstacles

Field	Field Type	Description	Domain Values	Relationships
Horizontal	Text	Horizontal positional accuracy	1 - +/- 20' 2 - +/- 50' 3 - +/- 100' 4 - +/- 250' 5 - +/- 500' 6 - +/- 1000' 7 - +/- 1/2 NM 8 - +/- 1 NM 9 - Unknown	
Vertical	Text	Vertical positional accuracy	A - +/- 3' B - +/- 10' C - +/- 20' D - +/- 50' E - +/- 125' F - +/- 250' G - +/- 500' H - +/- 1000' I - Unknown	
Marking	Text	Type of marking on Obstacle	P - Orange or Orange and White paint W - White paint only M - Marked F - Flag Marker S - Spherical Marker N - None U - Unkown	
Study	Text	FAA Study number of the obstacle		
Action	Text	Type of Action occuring during 56 day time frame	A - Add C - Change D - Dismantle	
Date	Text	Date of Action		

Radial Bearing

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
COURSE	Double	Value of the Bearing for the RadialBearing		
TYPE_CODE	Short Integer	Type of Radial Bearing Feature	NULL - Holding Pattern Radial 0 - Radial 4 - Facility Arrow	
DISTHORZ	Double	Value of the Distance for the RadialBearing		
SYS_ID	Text	GLOBAL_ID of the related Navaid or ILS System used to make-up the radial bearing		Navaid System : GLOBAL_ID ILS System : GLOBAL_ID
SYS_TYPE	Text	Type of System used to make-up the RadialBearing is related	NAVAID - Navaid System ILS - ILS System	
REFPT_ID	Text	GLOBAL_ID of the related DesignatedPoint or Navaid system the radial bearing is located at		Designated Point : GLOBAL_ID Navaid System : GLOBAL_ID
REFPT_TYPE	Short Integer	Type of Point the radial bearing is located at	2 - Designated Point 4 - Navaid System	
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		

Route Airspace

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
TYPE_CODE	Text	Type of Airspace	Class - Airspace having a specified class	
CLASS	Text	Indicates which Type of Class Airspace		
LOCAL_TYPE	Text	Subtype of Airspace	FLARE - Route Flare Corridor - Route Corridor	
REF_CLASS	Text	Indicates if the airspace feature is for a Route Portion Record or an Enroute Information Record	1 - Route Portion 2 - Enroute Information	
REF_ID	Text	GLOBAL_ID of the related feature		EnrouteInformation : GLOBAL_ID RoutePortion : GLOBAL_ID
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		
SHAPE_Area	Double	Internal Database Field		

Route Portion

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
DISTANCE	Double	Route Distance from Navaid to Navaid, from Navaid to Compulsory DesignatedPoint, or Compulsory DesignatedPoint to Compulsory DesignatedPoint		
STARTPT_ID	Text	GLOBAL_ID of RoutePortion Start DesignatedPoint		DesignatedPoint : GLOBAL_ID
ENDPT_ID	Text	GLOBAL_ID of RoutePortion End DesignatedPoint		DesignatedPoint : GLOBAL_ID
ENRINFO_ID	Text	GLOBAL_ID of related EnrouteInformation record		EnrouteInformation : GLOBAL_ID
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Runways

Field	Field Type	Description	Domain Values	Relationships
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
AIRPORT_ID	Text	Stores the value of the Airport's Global ID		Airport: GLOBAL_ID
DESIGNATOR	Text	Runway Identification		
LENGTH	Double	Physical Runway Length		
WIDTH	Double	Physical Runway Width		
DIM_UOM	Text	Unit of Measure for Lenth and Width Attributes	FT - Feet M - Meters	
COMP_CODE	Text	Ruway Surface Type	ASP+DIRT - Asphalt and Dirt ASP+GRS - Asphalt and Grass ASP+TRTD - Asphalt and Treated ASPH - Asphalt CONC - Concrete CONC+ASPH - Concrete and Asphalt CONC+GVL - Concrete and Gravel CONC+TRTD - Concrete and Treated DIRT - Dirt GRADE - Graded Earth GRASS - Grass GRAVE - Gravel PSP - Pierced steel planking SAND - Sand TURF+DIRT - Turf and Dirt TURF+GRVL - Turf and Gravel UNK - Unknown WATER - Water	
LIGHTACTV	Short Integer	Inidicates how Runway Edge Lights are turned on	0 - None 1- Available 2 - Pilot Controlled 3 - on Request or Part Time	

Runways				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
LIGHTINTNS	Text	Runway Edge Light Intensity	OTHER - Nonstandard LIL - Low Light Intensity LIM - Medium Light Intesity LIH - High Light Intensity	
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		
SHAPE_Area	Double	Internal Database Field		

Sample VFR Navigation Landmark				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
TYPE_CODE	Text	Type of VFR Navigation Landmark Point.	COAST - Coast Guard Station FISH - Fish Hatchery LOOKOUT - Lookout Tower MINE - Minning Facility OIL - Oil/Gas well (see DESC_TXT) OTHER - No Specific type (see DESC_TXT) PASS - Mountain Pass ROCK - Bare or Awash Rock TANK - Tank that stores liquid (see DESC_TXT) THEATER - Outdoor Theater TRACK - Racetrack not subject to TFR WATER - Watter well (see DESC_TXT) WRECK - Expossed ship wreck	
DESC_TXT	Text	Provides additional description, when appropriate, for the navaigation landmark type. May also indication that the point represents multiple features. Only populated for OIL, OTHER, PASS, TANK, and WATER type features.		
LATITUDE	Text	Latitude of the navigation landmark Point		
LONGITUDE	Text	Longitude of the navigation landmark point		
STRUCTURES	TEXT	Indicates the structures in which the VFR Navigation Landmark Point is used		

Sample VFR Navigation Landmark				
ELEVATION	Text	Elevation of the VFR Navigiation Landmark Point. Only populated for LOOKOUT and PASS type features. May not be avilable for every feature with those types.		
COUNTRY	Text	Name of country in which the feature is located.		
SEC	Short Integer	On Sectional Chart	0 - No 1 -Yes	

Service				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
REMARKS	Text	Remarks for the Service		
IDENT	Text	Identifier of the Service		
NAME	Text	Name of the Service		
LATITUDE	Text	Latitude of the Service		
LONGITUDE	Text	Longitude of the Service		
WKHR_CODE	Text	Indicates if a Service is available part time or full time	NULL - Considered Continuous Service H24 - Continuous Service RMK - See WKHR_RMK field for details	
WKHR_RMK	Text	Description of Hours the Service is available		
TYPE_CODE	Text	Type of Service	ASOS - Automated Surface Observation System ATIS - Automated Terminal Information Service ATIS-ARR - Automated Terminal Information for Arriving Traffic ATIS-DEP - Automated Terminal Information for Departing Traffic AWOS3 - Automated Weather Observation System (Type 3) AWOS3P - Automated Weather Observation System (Type 3P) AWOS3PT - Automated Weather Observation System (Type 3PT) FS21HUB - FS21 Hub Station (Type of ??) FS21RDO - FS21 Radio Service Area (Type of ??) FSS - Flight Service Station	
FSS_NAME	Text	Name of Flight Service Station; Only populated for RCOM Type features		

Service				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
STANDALONE	Short Integer	Indicates if the Service is Standalone or co-located with another feature	0 - No 1 - Stand-Alone 2 - Stand-Alone High Altitude Only 3 - Stand-Alone Low Altitude Only	
REF_ID	Text	GLOBAL_ID of facility to which the Service is related		Airport : GLOBAL_ID Navaid System : GLOBAL_ID
REF_TYPE	Text	Indicates whether the facility related to the Service is an Airport or Navaid	Airport - Airport NAVSYS - Navaid System	
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
ARTCC_NAME	Text	The Air Route Traffic Control Center to which the Service is related; Only Populated for RCAG type service		
AK_LOW	Short Integer	On Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	On Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	On U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	On U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	

Stadiums	**(Stadiums that meet criteria for Sporting Event Temporary Flight Restrictions)**			
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
NAME	Text	Venue name		
LATITUDE	Text	Latitude of venue reference point (in DMS)		
LONGITUDE	Text	Longitude of venue reference point (in DMS)		
CITY	Text	City name		
STATE	Text	State abbreviation		
STATUS_CODE	Text	Operational status of the feature. Includes OPEN or UNDER CONSTRUCTION	Open Under Construction	
OPENING_ON	Date	Date the venue will be open for use. (Construction complete, proposed opening)		

SUA				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
OBJECTID	Object ID	Internal Database Field		
SHAPE	Geometry	Internal Database Field		
GLOBAL_ID	Text	Unique Identifier for this feature within the entire dataset		
NAME	Text	Name of the Special Use Airspace		
TYPE_CODE	Text	Type of Special Use Airspace	A - Alert Area ADA - Advisory Area D - Danger Area MOA - Military Operation Area P - Prohibited Area R - Restricted Area W - Warning Area	
CLASS	Text	Indicates which Type of Class Airspace		
UPPER_DESC	Text	Description of the Upper Limit value's inclusion in the Airspace	NULL - Not Applicable TI - To and Including TNI - To but not Including	
UPPER_VAL	Double	Value of the Upper Limit of the Special Use Airspace		
UPPER_UOM	Text	Unit of Measure for the Upper Limit of the Special Use Airspace	FL - Flight Level FT - Feet	
UPPER_CODE	Text	Code for the Upper Limit of the Special Use Airspace	BYNOTAM - Given By NOTAM MSL - Mean Sea Level SFC - Surface STD - Standard Atmosphere UNLTD - Unlimited	
LOWER_DESC	Text	Description of the Lower Limit value's inclusion in the Airspace	NULL - Not Applicable AA - And Above ANI - Above but not Including	
LOWER_VAL	Double	Value of the Lower Limit of the Special Use Airspace		
LOWER_UOM	Text	Unit of Measure for the Lower Limit of the Special Use Airspace	FL - Flight Level FT - Feet	

SUA				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
LOWER_CODE	Text	Code for the Lower Limit of the Special Use Airspace	MSL - Mean Sea Level SFC - Surface STD - Standard Atmosphere	
LEVEL_CODE	Text	Indicates if the Level of the Special Use Airspace is Upper, Lower, or Both	U - High Altitude Only L - Low Altitidue Only B - Both High and Low Altitude	
CITY	Text	City Name		
STATE	Text	State or Province Name		
COUNTRY	Text	Country Name		
CONT_AGENT	Text	Controlling Agency of the Special Use Airspace		
COMM_NAME	Text	Name of the Communication outlet for the Special Use Airspace		
SECTOR	Text	Sector of the airspace if applicable		
ONSHORE	Short Integer	Indicates whether the Special Use Airspace is On-Shore or not		
EXCLUSION	Short Integer	Indicates whether the Special Use Airspace is an Exclusion Area or not The geometry of an exclusion area shows what remains as part of the named airspace	0 - Not an Exclusion 1 - Is an Exclusion Area	
TIMESOFUSE	Text	Times the Special Use Airspace is used		
GMTOFFSET	Text	Hour Offset from Greenwich Mean Time		
DST_CODE	Text	Indicates if Daylight Savings Time is observed	0 - No Daylight Savings Time 1 - Adjust for Daylight Savings Time	
REMARKS	Text	Remarks for the Special Use Airspace If this is an exclusion, this field will indicate what has been excluded or removed from the named airspace		

SUA				
Field	**Field Type**	**Description**	**Domain Values**	**Relationships**
AK_LOW	Short Integer	Alaska Enroute Low Chart	0 - No 1 -Yes	
AK_HIGH	Short Integer	Alaska Enroute High Chart	0 - No 1 -Yes	
US_LOW	Short Integer	U.S. Enroute Low Chart	0 - No 1 -Yes	
US_HIGH	Short Integer	U.S. Enroute High Chart	0 - No 1 -Yes	
US_AREA	Short Integer	On U.S. Area Chart	0 - No 1 -Yes	
PACIFIC	Short Integer	On Pacific Enroute Chart	0 - No 1 -Yes	
SHAPE_Length	Double	Internal Database Field		
SHAPE_Area	Double	Internal Database Field		