

INSTRUMENT LANDING SYSTEM (ILS) DATA
COMMA-SEPARATED VALUES (CSV) RECORD LAYOUT
(ILS-FILES)

INFORMATION EFFECTIVE DATE: 8/07/2025

RECORD FORMAT: COMMA DELIMITED WITH TEXT FIELDS ENCLOSED WITHIN DOUBLE-QUOTE CHARACTERS

LOGICAL RECORD INTERVAL: ALL RECORDS WITHIN A SPECIFIC ILS FILE HAVE THE SAME NUMBER OF FIELDS, IN THE SAME ORDER AND RECORD ENDS AT A LINE TERMINATOR

DATA HEADERS: FIRST ROWS CONTAIN FIELD NAMES

ILS FILES: ILS_BASE, ILS_GS, ILS_DME, ILS_MKR, ILS_RMK

COMMON TO ALL ILS FILES: EFF_DATE, SITE_NO, SITE_TYPE_CODE, STATE_CODE, ARPT_ID, CITY, COUNTRY_CODE, RWY_END_ID, ILS_LOC_ID, SYSTEM_TYPE_CODE

GENERAL INFORMATION:

1. The ILS_*.csv files were designed to replace the legacy ILS.txt Subscriber File.
2. The Ordered By list for each ILS FILE documented below is also the Unique Record Key.
3. ILS_*.csv files contain the data found in the legacy ILS.txt Subscriber File. Data while comparable to the legacy ILS.txt is in some cases organized and presented in a different way.
4. Please enter any feedback in the Aeronautical Information Portal.

<https://nfdc.faa.gov/nfdcApps/controllers/PublicSecurity/nfdcLogin>

FIELD DESCRIPTIONS

COMMON TO ALL

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EFF_DATE – The 28 Day NASR Subscription Effective Date in format ‘YYYY/MM/DD’.

SITE_NO – Landing Facility Site Number. A unique identifying number.

SITE_TYPE_CODE – Landing Facility Type Code.

| CODE | FACILITY |
|------|---------------|
| ---- | ----- |
| A | AIRPORT |
| B | BALLOONPORT |
| C | SEAPLANE BASE |

| | |
|---|------------|
| G | GLIDERPORT |
| H | HELIPORT |
| U | ULTRALIGHT |

STATE_CODE – Associated State Post Office Code standard two letter abbreviation for US States and Territories.

ARPT_ID – Location Identifier. Unique 3-4 character alphanumeric identifier assigned to the Landing Facility.

CITY – Associated City Name

COUNTRY_CODE - Country Post Office Code

RWY_END_ID – ILS Runway End Identifier

ILS_LOC_ID – ILS Identification

SYSTEM_TYPE_CODE – ILS System Type.

| System Type Code ----- | System Type ----- | Description ----- |
|---------------------------|----------------------|--|
| LS | ILS | Instrument Landing System |
| SF | SDF | Simplified Directional Facility |
| LC | LOC | Localizer |
| LA | LDA | Localizer-Type Directional Aid |
| LD | ILS/DME | Instrument Landing System/Distance Measuring Equipment |
| SD | SDF/DME | Simplified Directional Facility/Distance Measuring Equipment |
| LE | LOC/DME | Localizer/Distance Measuring Equipment |
| LG | LOC/GS | Localizer/Glide Slope |
| DD | LDA/DME | Localizer-Type Directional Aid/Distance Measuring Equipment |

ILS_BASE ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID

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STATE_NAME – Associated State Name

REGION_CODE – FAA Region responsible for NAVAID (code)

| CODE | REGION NAME |
|------|--------------------|
| ---- | ----- |
| AAL | ALASKA |
| ACE | CENTRAL |
| AEA | EASTERN |
| AGL | GREAT LAKES |
| ANE | NEW ENGLAND |
| ANM | NORTHWEST MOUNTAIN |
| ASO | SOUTHERN |
| ASW | SOUTHWEST |
| AWP | WESTERN-PACIFIC |

RWY_LEN – ILS Runway Length in Whole Feet

RWY_WIDTH – ILS Runway Width in Whole Feet

CATEGORY – Category of the ILS

OWNER – A Concatenation of the ILS OWNER CODE - ILS OWNER NAME

OPERATOR – A Concatenation of the ILS OPERATOR CODE - ILS OPERATOR NAME

APCH_BEAR – ILS Approach Bearing in Degrees Magnetic

MAG_VAR – Magnetic Variation Degrees

MAG_VAR_HEMIS – Magnetic Variation Direction

COMPONENT_STATUS – Operational Status of Localizer

COMPONENT_STATUS_DATE – Effective Date of Localizer Operational Status

LAT_DEG – Localizer Antenna Latitude Degrees

LAT_MIN – Localizer Antenna Latitude Minutes

LAT_SEC – Localizer Antenna Latitude Seconds

LAT_HEMIS – Localizer Antenna Latitude Hemisphere

LAT_DECIMAL – Localizer Antenna Latitude in Decimal Format

LONG_DEG – Localizer Antenna Longitude Degrees

LONG_MIN – Localizer Antenna Longitude Minutes

LONG_SEC – Localizer Antenna Longitude Seconds

LONG_HEMIS – Localizer Antenna Longitude Hemisphere

LONG_DECIMAL – Localizer Antenna Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

| CODE | SOURCE |
|------|-------------------------------|
| ---- | ----- |
| A | AIR FORCE |
| C | COAST GUARD |
| D | CANADIAN AIRAC |
| F | FAA |
| FS | TECH OPS (AFS-530) |
| G | NOS (HISTORICAL) |
| K | NGS |
| M | DOD (NGA) |
| N | US NAVY |
| O | OWNER |
| P | NOS PHOTO SURVEY (HISTORICAL) |
| Q | QUAD PLOT (HISTORICAL) |
| R | ARMY |
| S | SIAP |
| T | 3RD PARTY SURVEY |
| Z | SURVEYED |

SITE_ELEVATION – Site Elevation of Localizer Antenna in Tenth of a Foot (MSL).

LOC_FREQ – Localizer Frequency (MHZ)

BK_COURSE_STATUS_CODE - Localizer Back Course Status

| CODE | STATUS |
|------|-----------------|
| ---- | ----- |
| N | NO RESTRICTIONS |
| R | RESTRICTED |
| U | UNUSABLE |
| Y | USABLE |

ILS_GS ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID

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COMPONENT_STATUS – Operational Status of Glide Slope

COMPONENT_STATUS_DATE – Effective Date of Glide Slope Operational Status

LAT_DEG – Glide Slope Transmitter Antenna Latitude Degrees

LAT_MIN – Glide Slope Transmitter Antenna Latitude Minutes

LAT_SEC – Glide Slope Transmitter Antenna Latitude Seconds

LAT_HEMIS – Glide Slope Transmitter Antenna Latitude Hemisphere

LAT_DECIMAL – Glide Slope Transmitter Antenna Latitude in Decimal Format

LONG_DEG – Glide Slope Transmitter Antenna Longitude Degrees

LONG_MIN – Glide Slope Transmitter Antenna Longitude Minutes

LONG_SEC – Glide Slope Transmitter Antenna Longitude Seconds

LONG_HEMIS – Glide Slope Transmitter Antenna Longitude Hemisphere

LONG_DECIMAL – Glide Slope Transmitter Antenna Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

| CODE | SOURCE |
|------|-------------------------------|
| ---- | ----- |
| A | AIR FORCE |
| C | COAST GUARD |
| D | CANADIAN AIRAC |
| F | FAA |
| FS | TECH OPS (AFS-530) |
| G | NOS (HISTORICAL) |
| K | NGS |
| M | DOD (NGA) |
| N | US NAVY |
| O | OWNER |
| P | NOS PHOTO SURVEY (HISTORICAL) |
| Q | QUAD PLOT (HISTORICAL) |
| R | ARMY |
| S | SIAP |
| T | 3RD PARTY SURVEY |
| Z | SURVEYED |

SITE_ELEVATION – Site Elevation of Glide Slope Transmitter Antenna in Tenth of a Foot (MSL).

G_S_TYPE_CODE - Glide Slope Class/Type

| TYPE | DESCRIPTION |
|-----------------|--|
| ----- | ----- |
| GLIDE SLOPE | STANDARD GLIDE SLOPE. |
| GLIDE SLOPE/DME | GLIDE SLOPE WITH DISTANCE MEASURING EQUIPMENT. |

G_S_ANGLE – Glide Slope Angle in Degrees and Hundredths of Degree

G_S_FREQ – Glide Slope Transmission Frequency

ILS_DME ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID

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COMPONENT_STATUS – Operational Status of DME

COMPONENT_STATUS_DATE – Effective Date of DME Operational Status

LAT_DEG – DME Transponder Antenna Latitude Degrees

LAT_MIN – DME Transponder Antenna Latitude Minutes

LAT_SEC – DME Transponder Antenna Latitude Seconds

LAT_HEMIS – DME Transponder Antenna Latitude Hemisphere

LAT_DECIMAL – DME Transponder Antenna Latitude in Decimal Format

LONG_DEG – DME Transponder Antenna Longitude Degrees

LONG_MIN – DME Transponder Antenna Longitude Minutes

LONG_SEC – DME Transponder Antenna Longitude Seconds

LONG_HEMIS – DME Transponder Antenna Longitude Hemisphere

LONG_DECIMAL – DME Transponder Antenna Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

| CODE | SOURCE |
|------|-------------------------------|
| ---- | ----- |
| A | AIR FORCE |
| C | COAST GUARD |
| D | CANADIAN AIRAC |
| F | FAA |
| FS | TECH OPS (AFS-530) |
| G | NOS (HISTORICAL) |
| K | NGS |
| M | DOD (NGA) |
| N | US NAVY |
| O | OWNER |
| P | NOS PHOTO SURVEY (HISTORICAL) |
| Q | QUAD PLOT (HISTORICAL) |
| R | ARMY |
| S | SIAP |
| T | 3RD PARTY SURVEY |
| Z | SURVEYED |

SITE_ELEVATION – Site Elevation of DME Transponder Antenna in Tenth of a Foot (MSL).

CHANNEL – NAS Channel on Which Distance Data is Transmitted

ILS_MKR ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID, ILS_COMP_TYPE_CODE

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ILS_COMP_TYPE_CODE – Marker Type (IM - Inner Marker, MM - Middle Marker, OM - Outer Marker)

COMPONENT_STATUS – Operational Status of Marker Beacon

COMPONENT_STATUS_DATE – Effective Date of Marker Beacon Operational Status

LAT_DEG – Marker Beacon Latitude Degrees

LAT_MIN – Marker Beacon Latitude Minutes

LAT_SEC – Marker Beacon Latitude Seconds

LAT_HEMIS – Marker Beacon Latitude Hemisphere

LAT_DECIMAL – Marker Beacon Latitude in Decimal Format

LONG_DEG – Marker Beacon Longitude Degrees

LONG_MIN – Marker Beacon Longitude Minutes

LONG_SEC – Marker Beacon Longitude Seconds

LONG_HEMIS – Marker Beacon Longitude Hemisphere

LONG_DECIMAL – Marker Beacon Longitude in Decimal Format

LAT_LONG_SOURCE_CODE – Code Indication Source of Latitude/Longitude Information

| CODE | SOURCE |
|------|-------------------------------|
| ---- | ----- |
| A | AIR FORCE |
| C | COAST GUARD |
| D | CANADIAN AIRAC |
| F | FAA |
| FS | TECH OPS (AFS-530) |
| G | NOS (HISTORICAL) |
| K | NGS |
| M | DOD (NGA) |
| N | US NAVY |
| O | OWNER |
| P | NOS PHOTO SURVEY (HISTORICAL) |
| Q | QUAD PLOT (HISTORICAL) |
| R | ARMY |
| S | SIAP |
| T | 3RD PARTY SURVEY |
| Z | SURVEYED |

SITE_ELEVATION – Site Elevation of Marker Beacon in Tenth of a Foot (MSL).

MKR_FAC_TYPE_CODE - Facility/Type of Marker/Locator

| CODE ----- | TYPE ----- | DESCRIPTION ----- |
|---------------|---------------|-------------------------------------|
| M | MARKER | MARKER BEACON ONLY |
| C | COMLO | COMPASS LOCATOR |
| R | NDB | NONDIRECTIONAL RADIO BEACON |
| MC | MARKER/COMLO | MARKER/ COMPASS LOCATOR |
| MR | MARKER/NDB | MARKER/ NONDIRECTIONAL RADIO BEACON |

MARKER_ID_BEACON – Location Identifier of Beacon at Marker

COMPASS_LOCATOR_NAME - Name of the Marker Locator Beacon

FREQ –NAVAID Frequency when Marker is collocated else Locator Frequency (in KHZ)

NAV_ID - Location Identifier of Navigation Aid Collocated With Marker (Blank Indicates Marker Is Not Collocated With A NAVAID)

NAV_TYPE – Collocated NAVAID Type

LOW_POWERED_NDB_STATUS - Low Powered NDB Status of Marker Beacon

ILS_RMK ordered by SITE_NO, SITE_TYPE_CODE, RWY_END_ID, TAB_NAME, ILS_COMP_TYPE_CODE, REF_COL_NAME, REF_COL_SEQ_NO

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TAB_NAME – NASR table associated with Remark.

ILS_COMP_TYPE_CODE – TAB_NAME with the Exception of ILS will designate a specific Component Type that the Remark refers to.

REF_COL_NAME – NASR Column name associated with Remark. Non-specific remarks are identified as GENERAL_REMARK.

REF_COL_SEQ_NO – Sequence number assigned to Reference Column Remark.

REMARK – Remark Text (Free Form Text that further describes a specific Information Item.)