#### NAVIGATION AID (NAVAID) DATA

# COMMA-SEPARATED VALUES (CSV) RECORD LAYOUT

(NAV-FILES)

INFORMATION EFFECTIVE DATE: 03/21/2024

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

**CHARACTERS** 

LOGICAL RECORD INTERVAL: ALL RECORDS WITHIN A SPECIFIC NAV 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

NAV FILES: NAV BASE, NAV RMK, NAV CKPT

COMMON TO ALL NAV FILES: EFF DATE, NAV ID, NAV TYPE, STATE CODE, CITY,

COUNTRY\_CODE

#### **GENERAL INFORMATION:**

- 1. The NAV \*.csv files were designed to replace the legacy NAV.txt Subscriber File.
- 2. The Ordered By list for each NAV FILE documented below is also the Unique Record Key.
- 3. NAV\_\*.csv files contain the data found in the legacy NAV.txt Subscriber File. Data while comparable to the legacy NAV.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'.

NAV ID - NAVAID Facility Identifier.

NAV\_TYPE - NAVAID Facility Type.

TYPE	Description

CONSOLAN A Low Frequency, Long-Distance NAVAID Used Principally for

Transoceanic navigation.

DME Distance Measuring Equipment only.

FAN MARKER There are 3 types of EN ROUTE Market Beacons. FAN MARKER,

Low powered FAN MARKERS and Z MARKERS. A FAN MARKER

Is used to provide a positive identification of positions at

Definite points along the airways.

MARINE NDB A NON Directional Beacon used primarily for Marine (surface)

Navigation.

MARINE NDB/DME A NON Directional Beacon with associated Distance measuring

Equipment; used primarily for Marine (surface) Navigation.

NDB A NON Directional Beacon

NDB/DME Non Directional Beacon with associated Distance Measuring

Equipment.

TACAN A Tactical Air Navigation System providing Azimuth and Slant

Range Distance.

UHF/NDB Ultra High Frequency/NON Directional Beacon.

VOR A VHF OMNI-Directional Range providing Azimuth only.
VORTAC A Facility consisting of two components, VOR and TACAN,

Which provides three individual services: VOR AZIMITH, TACAN AZIMUTH and TACAN Distance (DME) at one site.

VOR/DME VHF OMNI-DIRECTIONAL Range with associated Distance

Measuring equipment.

VOT A FAA VOR Test Facility.

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

CITY- NAVAID Associated City Name

COUNTRY\_CODE - Country Post Office Code NAVAID Located

NAV\_BASE ordered by NAV\_ID, NAV\_TYPE, COUNTRY\_CODE, CITY

#### 

NAV\_STATUS - Navigation Aid Status

NAME – Name of NAVAID

STATE\_NAME - Associated State Name

REGION\_CODE – FAA Region responsible for NAVAID (code)

CODE	REGION NAME
AAL	ALASKA
ACE	CENTRAL
AEA	EASTERN
AGL	<b>GREAT LAKES</b>

ANE NEW ENGLAND

ANM NORTHWEST MOUNTAIN

ASO SOUTHERN
ASW SOUTHWEST
AWP WESTERN-PACIFIC

COUNTRY\_NAME - Country Name NAVAID Located

FAN\_MARKER - Name of FAN MARKER

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

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

NAS USE FLAG - Common System Usage (Y or N) Defines how the NAVAID is used.

PUBLIC USE FLAG - NAVAID PUBLIC USE (Y or N) Defines by whom the NAVAID is used.

NDB\_CLASS\_CODE - Class of NDB

## CLASS CODE/DESCRIPTION

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DME UHF STANDARD (TACAN COMPATIBLE) DISTANCE MEASURING EQUIPMENT.

- H NON-DIRECTIONAL RADIO BEACON (NDB), (HOMING), POWER 50 WATTS TO LESS THAN 2000 WATTS (50 NM AT ALL ALTITUDES).
- HH NON-DIRECTIONAL RADIO BEACON (NDB), (HOMING), POWER 2000 WATTS OR MORE (75 NM AT ALL ALTITUDES)
- LOM COMPASS LOCATOR STATION WHEN INSTALLED AT OUTER MARKER SITE (15 NM AT ALL ALTITUDES).
- MH NON-DIRECTIONAL RADIO BEACON (NDB) (HOMING), POWER LESS THAN 50 WATTS (25 NM AT ALL ALTITUDES)
- SABH NON-DIRECTIONAL RADIO BEACON (NDB) NOT AUTHORIZED FOR IFR OR ATC. PROVIDES AUTOMATIC WEATHER BROADCASTS.
- W WITHOUT VOICE ON RADIO FACILITY FREQUENCY.
- Z VHF STATION LOCATION MARKER AT A LF RADIO FACILITY.

EXAMPLES: H, HH, MH-SAB, MHW/LOM, H-SAB/LOM

NOTE: MULTIPLE CLASS CODE TYPES MAY BE SEPARATED BY A / (SLANT) OR A - (DASH)

\*\*\*\* AUXILIARY CANADA CLASS CODES \*\*\*\*

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THESE CODES MAY APPEAR SINGLY, IN MULTIPLES, OR COMBINED WITH THE CODES LISTED ABOVE:

#### CLASS CODE/DESCRIPTION

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- C TRANSCRIBED WEATHER BROADCAST STATION
- B SCHEDULED WEATHER BROADCAST

- T FSS OR OTHER ATC AGENCY (EXCEPT PAR) CAN TRANSMIT ON THIS NAVIGATION FRE-QUENCY BUT NOT RECEIVE
- P PRECISION APPROACH RADAR BACK-UP FREQUENCY
- L NDB POWER OUTPUT LESS THAN 50 WATTS
- M NDB POWER OUTPUT 50 TO LESS THAN 2000 WATTS
- H NDB POWER OUTPUT 2000 WATTS OR MORE
- Z 75 MHZ STATION LOCATION MARKER OR FAN MARKER

OPER HOURS – HOURS of Operation of NAVAID.

HIGH\_ALT\_ARTCC\_ID – Identifier of ARTCC with High Altitude Boundary That the NAVAID Falls Within.

HIGH\_ARTCC\_NAME - Name of ARTCC with High Altitude Boundary That the NAVAID Falls Within.

LOW ALT ARTCC ID – Identifier of ARTCC with Low Altitude Boundary That the NAVAID Falls Within.

LOW\_ARTCC\_NAME - Name of ARTCC with Low Altitude Boundary That the NAVAID Falls Within.

LAT DEG - NAVAID Latitude Degrees

LAT\_MIN – NAVAID Latitude Minutes

LAT SEC – NAVAID Latitude Seconds

LAT\_HEMIS - NAVAID Latitude Hemisphere

LAT DECIMAL - NAVAID Latitude in Decimal Format

LONG DEG - NAVAID Longitude Degrees

LONG\_MIN - NAVAID Longitude Minutes

LONG SEC - NAVAID Longitude Seconds

LONG HEMIS - NAVAID Longitude Hemisphere

LONG DECIMAL - NAVAID Longitude in Decimal Format

SURVEY ACCURACY CODE – Latitude/Longitude Survey Accuracy (Code)

## SURVERY ACCURACY CODE/DESCRIPTION

0 = UNKNOWN

1 = DEGREE

2 = 10 MINUTES

3 = 1 MINUTE

**4 = 10 SECONDS** 

5 = 1 SECOND OR BETTER

6 = NOS

7 = 3RD ORDER TRIANGULATION

TACAN\_DME\_STATUS – Status of TACAN or DME Equipment.

TACAN\_DME\_LAT\_DEG – Latitude Degrees of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LAT\_MIN – Latitude Minutes of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LAT\_SEC – Latitude Seconds of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LAT\_HEMIS – Latitude Hemisphere of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LAT\_DECIMAL – Latitude in Decimal Format of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LONG\_DEG – Longitude Degrees of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LONG\_MIN – Longitude Minutes of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LONG\_SEC – Longitude Seconds of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LONG\_HEMIS – Longitude Hemisphere of TACAN Portion of VORTAC when TACAN is not sited with VOR

TACAN\_DME\_LONG\_DECIMAL – Longitude in Decimal Format of TACAN Portion of VORTAC when TACAN is not sited with VOR

ELEV – Elevation in Tenth of a Foot (MSL).

MAG\_VARN – Magnetic Variation Degrees (DME, VOT and FM NAVAID Types do not have MAG VAR. Any value in this column for those NAVAID Types should be ignored.)

MAG\_HEMIS – Magnetic Variation Direction (DME, VOT and FM NAVAID Types do not have MAG HEMIS. Any value in this column for those NAVAID Types should be ignored.)

MAG\_VARN\_YEAR – Magnetic Variation Epoch Year (DME, VOT and FM NAVAID Types do not have MAG VAR YEAR. Any value in this column for those NAVAID Types should be ignored.)

SIMUL\_VOICE\_FLAG – Simultaneous Voice Feature

PWR OUTPUT – Power Output (In Watts)

AUTO\_VOICE\_ID\_FLAG – Automatic Voice Identification Feature

MNT CAT CODE – Monitoring Category

MONITORING CATEGORY (1, 2, 3, 4)

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1-Internal Monitoring Plus A Status Indicator Installed At Control Point. (Reverts to a Temporary Category 3 Status When the Control Point is not is Not Manned.)

2-Internal Monitoring with Status Indicator at Control Point Inoperative but Pilot Reports Indicate facility is operating normally. (This Is A Temporary Situation That Requires No Procedural Action.)

3-Internal Monitoring Only. Status Indicator Non installed at control point.

4-Internal Monitor Not Installed. Remote Status indicator provided at control point. This Category Is Applicable Only To Non-Directional Beacons.

VOICE\_CALL - Radio Voice Call (Name) or Trans Signal

CHAN - Channel (TACAN) NAVAID Transmits On

FREQ - Frequency the NAVAID Transmits On (Except TACAN)

MKR\_IDENT - Transmitted Fan Marker/Marine Radio Beacon Identifier

MKR\_SHAPE – Fan Marker Type (E - ELLIPTICAL)

MKR\_BRG - True Bearing of Major Axis of Fan Marker

ALT\_CODE - VOR Standard Service Volume

H=HIGH ALTITUDE, L=LOW ALTITUDE, T=TERMINAL, VH=VOR HIGH, VL=VOR LOW

CLASS	ALTITIUDE	MILES
T	Between 1000' and 12,000'	25
L	Between 1000' and 18,000'	40
Н	Between 1000' and 14,499'	40
Н	Between 14,500' and 17,999'	100
Н	Between 18,000' and FL 450	130
Н	Above FL 450	100
VL	Between 1000' and 4999'	40
VL	Between 5000' and 17,999'	70
VH	Between 1000' and 4999'	40
VH	Between 5000' and 14,499'	70
VH	Between 14,500' and 17,999'	100
VH	Between 18,000' and FL 450	130
VH	Above FL 450	100

H=HIGH ALTITUDE, L=LOW ALTITUDE, T=TERMINAL, DH=DME HIGH, DL=DME LOW

CLASS	ALTITIUDE	MILES
Т	Between 1000' and 12,000'	25
L	Between 1000' and 18,000'	40
Н	Between 1000' and 14,499'	40
Н	Between 14,500' and 17,999'	100
Н	Between 18,000' and FL 450	130
Н	Above FL 450	100
DL	Between 12,900' and 18,000'	130
DH	Between 12,900' and FL 450	130
DH	Above FL 450	100

LOW\_NAV\_ON\_HIGH\_CHART\_FLAG - Low Altitude Facility Used in High Structure

Z\_MKR\_FLAG - NAVAID Z Marker Available

FSS\_ID - Associated/Controlling FSS (IDENT)

FSS\_NAME - Associated/Controlling FSS (Name)

FSS\_HOURS - Hours of Operation of Controlling FSS

NOTAM\_ID - NOTAM Accountability Code (IDENT)

QUAD\_IDENT - Quadrant Identification and Range Leg Bearing (LFR Only)

PITCH\_FLAG - Pitch Flag

CATCH\_FLAG - Catch Flag

SUA\_ATCAA\_FLAG - SUA/ATCAA Flag

RESTRICTION FLAG - NAVAID Restriction Flag

HIWAS\_FLAG - HIWAS Flag

NAV\_RMK ordered by NAV\_ID, NAV\_TYPE, COUNTRY\_CODE, CITY, TAB\_NAME, REF\_COL\_NAME, REF\_COL\_SEQ\_NO

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TAB NAME – NASR table associated with Remark.

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.)

NAV\_CKPT ordered by NAV\_ID, NAV\_TYPE, COUNTRY\_CODE, CITY, AIR\_GND\_CODE, BRG

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ALTITUDE - Altitude Only When Checkpoint is in Air

BRG – Bearing of Checkpoint

AIR\_GND\_CODE - Air/Ground Code: A=AIR, G=GROUND, G1=GROUND ONE

CHK\_DESC - Narrative Description Associated with the Checkpoint in AIR/Ground

ARPT\_ID – Airport ID

STATE\_CHK\_CODE - State Code in Which Associated City is Located