NAVIGATION AID (NAVAID) DATA

COMMA-SEPARATED VALUES (CSV) RECORD LAYOUT

(NAV-FILES)

INFORMATION EFFECTIVE DATE: 12/29/2022

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

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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*

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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

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AAL ALASKA

ACE CENTRAL

AEA EASTERN

AGL GREAT LAKES

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\_NAME – NAVAID OWNER NAME

OPR\_NAME – 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

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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

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T Between 1000' and 12,000' 25

L Between 1000' and 18,000' 40

H Between 1000' and 14,499' 40

H Between 14,500' and 17,999’ 100

H Between 18,000' and FL 450 130

H 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

DME\_SSV - DME Standard Service Volume

H=HIGH ALTITUDE,

L=LOW ALTITUDE,

T=TERMINAL,

DH=DME HIGH,

DL=DME LOW

CLASS ALTITIUDE MILES

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T Between 1000' and 12,000' 25

L Between 1000' and 18,000' 40

H Between 1000' and 14,499' 40

H Between 14,500' and 17,999’ 100

H Between 18,000' and FL 450 130

H 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)

OPR\_HOURS AS 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