

Service Bulletin Number 3010.0X.0X-34-3630

Announcement of the Availability of TAWS Terrain Database 1401

NOTE: Revision B to this Service Bulletin provides Field Loading information and updated kit pricing.

A. Effectivity

This Service Bulletin is applicable to Terrain Awareness Warning System (TAWS) Class A and B systems P/N 3010-0X-0X configured with TAWS SCN 10.4 and later. TAWS computers with software prior to SCN 10.4 must be upgraded to SCN 10.4 or later to support Terrain Database 1401.

B. Compliance

Installation of Terrain Database 1401 is optional. Consideration should also be given to the length of time since the database was last updated. Each Terrain Database incorporates all changes and updates from the previous databases.

NOTICE

This Terrain Database can be field loaded in TAWS units operating SCN 10.5 or later. Contact Universal Avionics to obtain kit P/N P12104 which includes Database Field Loading Procedures, Zip disks and USB flash drives to load Terrain Database 1401.

Loading terrain databases into TAWS requires a Solid State Data Transfer Unit (SSDTU) (P/N 1408-00-X or 1409-00-2) or DTU-100 (P/N 1406-01-X or 1407-01-1) with Mod 1 marked on the nameplate.

For operators using a DTU-100 without Mod 1, the TAWS units should be sent to Universal Avionics for updating. The terrain database contains five disks with 450 Mb of data and takes over an hour to load. Because of this, DTU-100 units without Mod 1 may fail due to overheating causing the TAWS Terrain Database to become corrupted and the TAWS system unserviceable.

If the TAWS unit is returned to Universal Avionics for update of the terrain database or because of failure during field loading, the repair center will update the database and perform all modifications and updates to the unit.

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The following is a list of previously released Terrain Databases and the respective Service Bulletin describing the changes made to each of the databases. The Service Bulletins can be found on our website www.uasc.com under the UniNet tab.

Database Cycle Number	Service Bulletin Number
0209	3055
0309	3106
0405	3119
0412	3172
0508	3193
0702	3260
0805	3293
0903	3335
1202	3522

C. Description

A new Terrain Database has been released for installation in Universal Avionics Terrain Awareness Warning System (TAWS). This database contains the latest terrain feature updates to increase the effectiveness of TAWS.

TAWS Terrain Database 1401, effective date 21 October 2014, incorporates the following enhancements to Terrain Database 1202:

1. Terrain Database 1401 provides worldwide coverage and includes data (missing in earlier releases of the terrain database) at the following four areas along the coastline of Antarctica:
 - S72°–S73°, W103° 48'–W106° 12'
 - S72°–S73°, W79° 48'–W81° 0'
 - S66°–S67°, E162° 48'–E164° 0'
 - S67°–S68°, E164° 0'–E165° 12'
2. Data accuracy has been improved at the following locations:
 - Grant Co. Regional, USA (KGCD)
 - Lebanon Municipal Airport, USA (KLEB)
 - Mt Fuji Shizuoka Airport, Japan (RJNS)
 - Williamsburg-Whitley County Airport, USA (KYBL)
 - Siberia, Russia (N66°–N69°, E138°–E141° and N61°–N63°, E138°–E144°)
 - The Island of Sao Tome
 - John F Kennedy International Airport, USA (KJFK)

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- Tampa International Airport, USA (KTPA)
 - Grant Co. International Airport, Moses Lake, WA, USA (KMWH)
 - Navarino Island, Chile (SAWH) and (SCGZ)
 - North Central State Airport, USA (KSFZ)
 - Birmingham International Airport, USA (KBHM)
 - Jenny Island, Antarctica—Low elevation for Jenny Island, Antarctica (as well as Leonie Island, Lagoon Island, Anchorage Island, Donnelly Island, and Limpet Island) has been improved
 - Islands of Fiji—High elevation along the coastlines of the islands of Fiji has been improved
 - Multiple Ocean Locations—Non-zero elevation in a number of ocean locations throughout the world has been improved
 - Many (300+) Locations throughout the World—Abnormal elevation (pits and spikes) at many locations throughout the world (the majority being in mountainous regions and along coastlines) has been improved
 - Multiple Locations in Canada—Higher resolution source data for Canada has been used to improve the elevation quality
3. Data resolution has been improved (to 6 arc seconds) at the following airports:
- Ny-Ålesund Airport, Norway (ENAS)
 - Svea Airport, Norway (ENSA)
 - Qikiqtarjuaq Airport, Canada (CYVM)

D. Approval

Conforms to:

FAA TSO-C92c, C151a or C151b / EASA ETSO-C92c, C511a or C151b

RTCA/DO-160D

RTCA/DO-178B S/W Level C

E. Weight and Balance

No change

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F. Material – Cost and Availability

1. Universal Avionics will not be responsible for labor or other costs involved in removal and replacement of the unit. If the unit is under warranty Universal Avionics will pay the cost of return shipping (FedEx P2 only). Prior to shipping the unit, contact our Product Support Department for pricing, scheduling and shipping details.
2. Terrain Database 1401 kit P12104 is available at a price of \$900.00 plus shipping. Contact our Sales Administration to purchase.
3. If the TAWS unit is returned to Universal Avionics for update of the terrain database, the repair center will update the database and perform all modifications and updates to the unit. There is a charge of \$1,750.00 to install the 1401 Terrain Database and recertify the unit.
4. Pricing is subject to change.
5. Available from: Sales Administration
Universal Avionics Systems Corporation
3260 E. Universal Way
Tucson, AZ 85756-5097
Ph: (520) 295-2300
Fax: (520) 295-2395
Email: info@uasc.com