

Updating G1000 Databases



The G1000 system requires various databases to be loaded for correct operation.

The databases are loaded to the G1000 system via SD cards, these cards depending on the database, are inserted into either the Top or Bottom slots of each of the GDU displays.

In the following guide, we will explain the databases that are required for the correct operation of the G1000 system, and also how to update and install these databases to your G1000 system.

G1000 - SD Cards

Each Garmin Display Unit (GDU) has two SD card slots -



- The top slot is typically empty to allow for easy updates of the Jeppesen Navigation Database
- The bottom slot is where the other databases are located - Terrain, Obstacle, Basemap, SafeTaxi, Airport Directory & Chartview, this is an SD card that is marked with **010-00330-43** (or **-42**) and is known as the Supplementary Data Card or Terrain Card.

G1000 – Suppl. Data Card Databases

Stored on the Suppl. Data (Terrain) SD card will be the following Databases:



010-00330-43 (or -42) SD Card

1. Terrain (-43 card supports SVT option)
2. Obstacle
3. SafeTaxi
4. Airport Directory
5. Basemap
6. Jeppesen Chartview (MFD Card Only) *Optional
7. Aircraft Checklist (depending on aircraft type) *Optional

There will be a Suppl. Data SD card installed in the bottom slot of **each** of the display units fitted to the aircraft (2 and 3 screen systems).

The G1000 system reads the above list of databases from the SD cards, so therefore the SD cards must be installed in each screen for correct operation.

One other point to note is that the Terrain, Obstacle, SafeTaxi, Airport Directory & Basemap database versions must all have the same cycle of data loaded to each card or 'Database Mismatch' messages will be displayed on the G1000.

DO NOT RE-FORMAT THIS CARD

G1000 – Suppl. Data Card Databases

Terrain Database

The Terrain database contains the Terrain mapping data and also the Airport Terrain database. The Airport Terrain database contains increased resolution Terrain data around airports.

These databases are updated periodically and have no expiration date, they are loaded to each SD card in the bottom slot of the display units.

Note: When a Terrain Database Update is carried out, both the Terrain and Airport Terrain databases are updated in the same update.



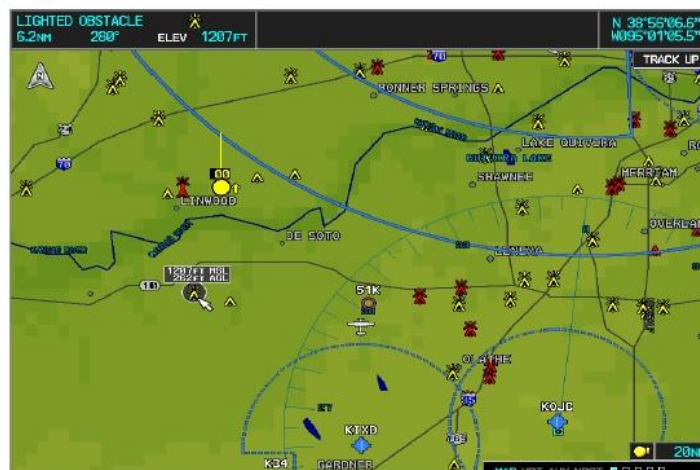
G1000 – Suppl. Data Card Databases

Obstacle Database

The Obstacle database contains data for obstacles, such as towers & masts that pose a potential hazard to aircraft.

Obstacles 200 feet and higher are included in the obstacle database. It is very important to note that not all obstacles are necessarily charted and therefore may not be contained in the obstacle database.

This database is updated on a 56-day cycle and is loaded to each SD card in the bottom slot of the display units.



G1000 – Suppl. Data Card Databases

SafeTaxi

The SafeTaxi database contains detailed airport diagrams for selected airports. These diagrams provide aid in following ground control instructions by accurately displaying the aircraft position on the map in relation to taxiways, ramps, runways, terminals and services.

This database is updated on a 56-day cycle, and is loaded to each card in the bottom slot of the display units.



G1000 – Suppl. Data Card Databases

Airport Directory

The Airport Directory by AC-U-KWIK provides detailed data on airport operations and services, along with the names and phone numbers of thousands of FBOs.

This database is updated on a 56-day cycle, and is loaded to each card in the bottom slot of the display units.



G1000 – Suppl. Data Card Databases

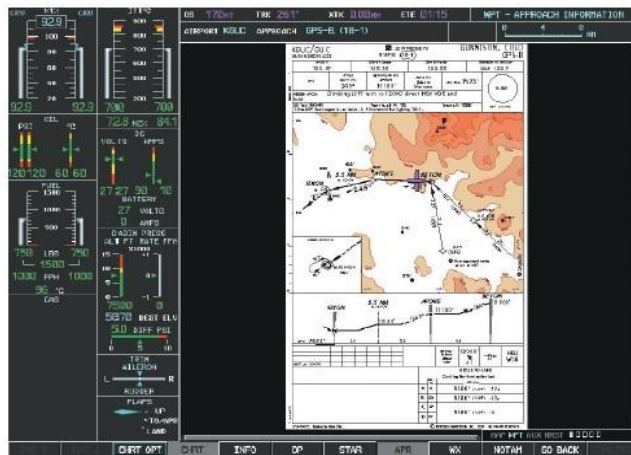
Jeppesen Chartview

The ChartView database provides an electronic version of the paper approach charts, that graphically overlays the aircraft position on the selected chart.

This database is updated on a 14-day cycle and is loaded to **only the MFD Datacard**.

Note: If the ChartView database is not updated within 70 days of the expiration date, ChartView will no longer be selectable and will be disabled.

The Chartview database is provided directly from Jeppesen, you will need to set up a subscription service with Jeppesen.



G1000 – Jeppesen Navigation Database

The Jeppesen Navigation database is loaded from a Blank SD card inserted into the top card slot of each display unit.

Garmin recommends that the Navigation Database is loaded to a SanDisk branded SD card with a 4Gb maximum capacity, higher capacity cards may not be able to be read by the G1000 system.



The Jeppesen Navigation database is copied from the SD card to the display units internal memory.

The Navigation database is loaded via the Top Slot of each GDU display unit. It is important to note that each display unit must have the same cycle of Navigation Data installed or 'Database Mismatch' messages will be displayed on the G1000 system.

Note: The Jeppesen Navigation Database is **not** to be loaded to the Suppl. Data cards

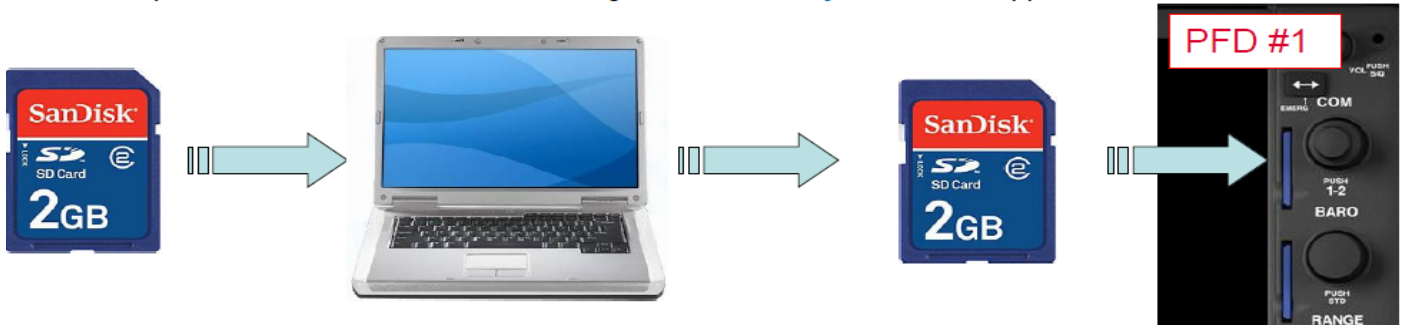
Updating Jeppesen Navigation Database

The Jeppesen Navigation Database is updated by creating a flyGarmin account or by setting up a subscription directly with Jeppesen.

Database updates can be downloaded from the flyGarmin website or alternatively from the Jeppesen website using the JSUM program supplied by Jeppesen.

Downloading the Jeppesen Aviation Database to a Blank SD Card

1. First update a blank SD card with the Navigation DB from [flyGarmin](#) or Jeppesen.



Note: The Jeppesen Aviation Database is Updated every 28 days.

Do not load the Jeppesen Navigation Database to the Suppl. Data cards, use a blank SD card, less than 4Gb.

Updating Jeppesen Navigation Database

With the system OFF, insert the SD card containing the Navigation database update into the top card slot of the display (PFD or MFD) to be updated (label of SD card facing left).

Turn the system ON. A prompt similar to the following is displayed in the upper left corner of the display:

```
DO YOU WANT TO UPDATE THE ACTIVE NAVIGATION DATABASE?
SELECTING YES WILL OVERWRITE THE ACTIVE NAVIGATION DATABASE.
FROM          TO
REGION:      WORLDWIDE    WORLDWIDE
CYCLE:       0904         0905
EFFECTIVE:   09-APR-2009    07-MAY-2009
EXPIRES:     07-MAY-2009    04-JUN-2009

NO WILL BE ASSUMED IN 8 SECONDS.
UPDATING THE ACTIVE NAVIGATION DATABASE, PLEASE WAIT.
.
UPDATED 1 FILES SUCCESSFULLY!
PRESS ANY KEY TO CONTINUE.
CONTINUING IN 8 SECONDS.
```

A prompt similar to the following is displayed, press the 'YES' Softkey to update the active navigation database.

After the update completes, the display starts in normal mode, turn the system OFF and remove the SD card.

Repeat the above steps for the MFD (& PFD2 if fitted). The PFD and MFD databases are now updated, remove the SD card when finished.

During MFD start-up, verify that the correct update cycle is loaded.

Updating Jeppesen Navigation Database

Jeppesen Nav Database Update Flow Diagram

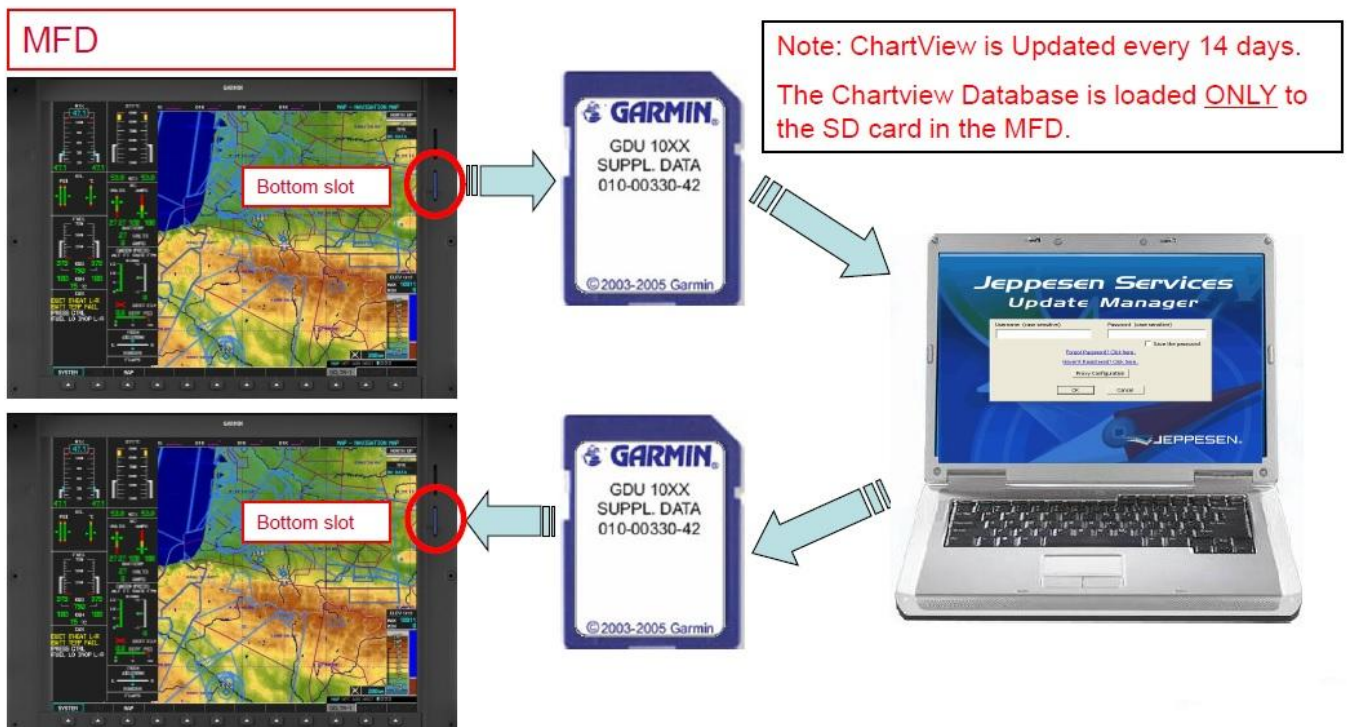


Place the updated SD card into the Top Slot of the PFD1 and cycle power, you will then be prompted to update the Navigation database, once completed, follow the same procedure for the MFD and also the PFD2 if fitted to your aircraft. Once the update is completed, remove the SD card from the display unit and retain for future updates.

Updating Jeppesen Chartview Database

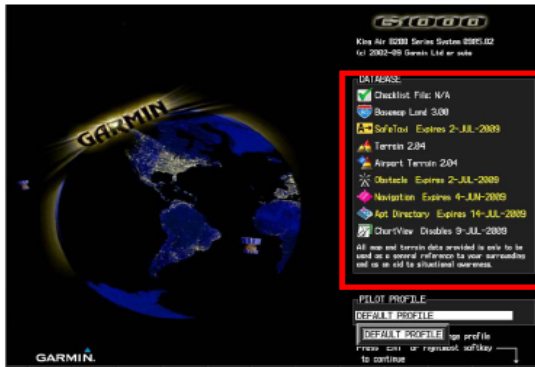
Updating Jeppesen Chartview Database

1. Remove the bottom card from the **MFD**.
2. Take the card to your PC. Download the Chartview database update from the Jeppesen website.
3. Take your card back to the aircraft and reinsert into the MFD display bottom slot.



Checking Database Expiry Dates

Database Expiry Date Information is contained on the startup screen of the MFD



DATABASE

- ✓ Checklist File: N/A
- 80 Basemap Land 3.00
- A→ SafeTaxi Expires 7-MAY-2009**
- ▲ Terrain 2.04
- ▲ Airport Terrain 2.04
- ✶ Obstacle Expires 7-MAY-2009
- ✶ Aviation Expires 12-MAR-2009
- 📄 Chart data is out of date!

All map and terrain data provided is only to be used as a general reference to your surrounding and as an aid to situational awareness.

Checking Database Expiry Dates

Checking Database Expiry Information in the AUX pages of the MFD

NAV1 108.00 ↔ 117.95 GS 0KT DTK ° TRK 349° ETE :_ :_ 136.975 ↔ 118.000 COM1
NAV2 108.00 117.95 AUX - SYSTEM STATUS 136.975 118.000 COM2

LRU INFO

STATUS	SERIAL NUMBER	VERSION
✗	-----	----
✗	-----	----
✗	-----	----
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✗	-----	----
✗	-----	----
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✗	-----	----
✗	-----	----
✓	000001	0.50
✓	000002	0.50
✓	000001	2.3

AIRFRAME

AIRFRAME Cessna Mustang
SYS SOFTWARE VERSION 0435.16
CRG PART NUMBER GPN 190-00500-XX
SYSTEM ID 290638DBF
CHECKLIST NOT AVAILABLE

DATABASE

DATABASE
BASEMAP REGION WORLDWIDE
VERSION 2.00
GARMIN CORPORATION 1995-2006
SAFETAXI REGION US
VERSION 2.22
CYCLE 0952
EFFECTIVE 12-MAR-09
EXPIRES 07-MAY-09
GARMIN LTD. AND ITS SUBSIDIARIES 2003
AVIATION REGION WORLDWIDE

MAP MPT AUX NRST 000000

