



EGNOS, it's there. Use it.

# How to configure (some) EGNOS receivers for Agriculture

**ESSP-SAS**



European  
Global Navigation  
Satellite Systems  
Agency



Precise navigation,  
powered by Europe



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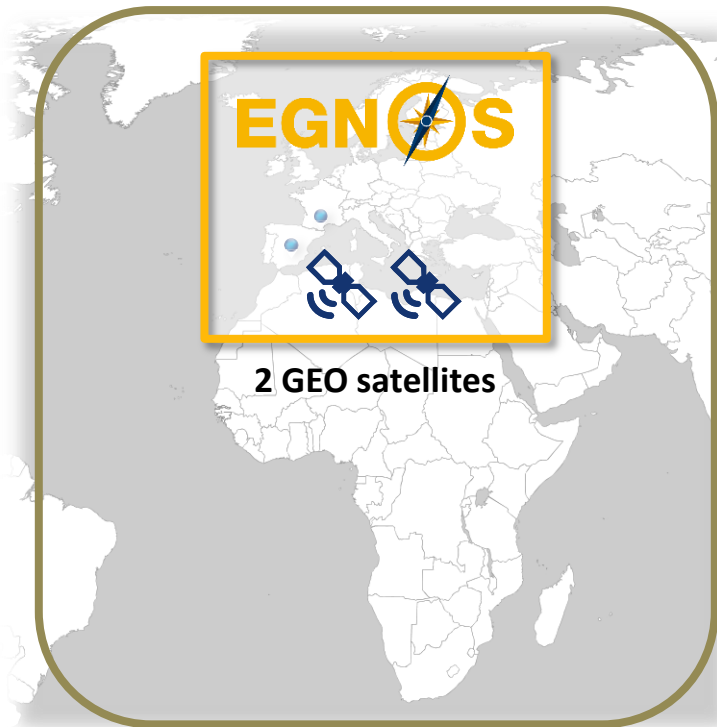
- **Let's access free GPS augmentation for agriculture**
- **How to configure your GPS/SBAS receiver**
- **Summary**

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# Access free GPS augmentation for agriculture: **EGNOS OS**

EGNOS signal is provided **free of charge** by **GEO satellites (123 & 136)** available **through out Europe**.



A **GPS/SBAS** (or GPS/EGNOS or GPS/WAAS) **receiver** is the **hardware required** to access GPS and EGNOS signals.

# What is a GPS/SBAS receiver?

- A **GPS/SBAS receiver** is a **GPS receiver** enhanced with special software enabling the receiver to **lock onto the EGNOS satellites** and apply the EGNOS corrections to the GPS signal.
- Almost **all commercial GPS receivers** for agriculture include **EGNOS** capability.
- **GPS/SBAS receivers** are **normally** installed on top of the **machinery roof** and a display is installed in the cabin



# Components of a **GPS/SBAS receiver**



GPS/SBAS receiver **components**:

1. **Display**
2. Display mount
3. Reference guide
4. CD
5. GNSS antenna cable
6. Power bus
7. Power cable
8. **Antenna**
9. Antenna mount plate

GPS/SBAS receivers are integrated either in the display or the antenna. Most of the manufacturers sell the display and the antenna separately

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# GPS/SBAS agriculture receiver manufacturers : examples





# Receiver TOPCON AGI-4



## Model: AGI-4

- EGNOS OS enabled
- NTRIP enabled
- GPS/SBAS receiver integrated in the antenna
- X30 display



# TOPCON AGI-4: EGNOS OS configuration

1. After startup, the X30 main *setup* screen is shown:
3. Then, users must tap **GPS Correction Source**:



2. To select the EGNOS OS corrections, the user must tap **System** then **GPS** and then **Correction**:



4. Finally, users select **EGNOS**:



# Receiver **AgLeader GPS6500**

## **Ag Leader®**

### **Model: GPS6500**

- EGNOS OS enabled
- NTRIP enabled
- GPS/SBAS receiver integrated in the antenna
- Incommand display



# AgLeader GPS6500: EGNOS OS configuration

1. After startup, the Incommand *homescreen* layout is shown:



2. To start the EGNOS OS setup, the user must tap:



3. The user must tap the following sequence of icons:



4. Finally, the user can configure one of the EGNOS GEOs (123 or 136)



# Receiver Trimble CFX-750



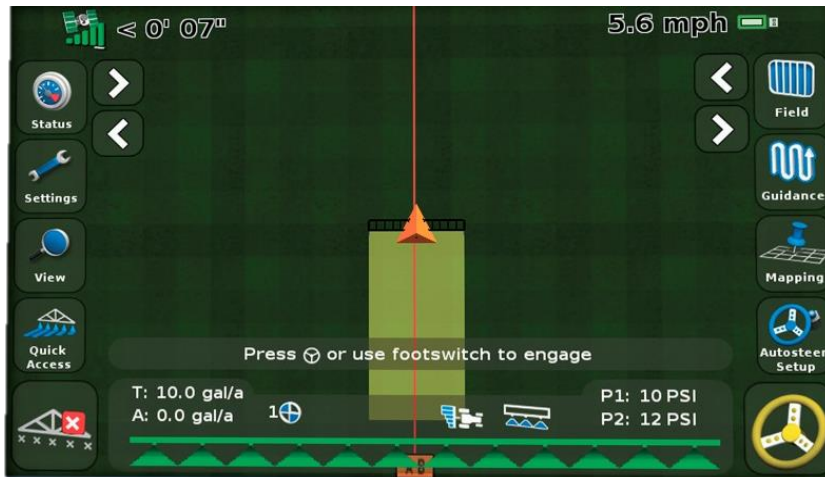
## Model: CFX-750

- EGNOS OS enabled
- GPS/SBAS receiver integrated in the display



# Trimble CFX-750: EGNOS OS configuration

1. After startup, the CFX750 *guidance* screen is shown:



2. To start the EGNOS OS setup, users must tap:



Settings

3. At the *Settings* screen, users must tap:



GNSS

4. At the *GNSS* screen, users must tap **GNSS setup**.
5. Users tap **GNSS Correction Source** and choose **WAAS/EGNOS**. Then tap:



6. At the *WAAS/EGNOS* screen, tap **Satellite**.

7. At the *Satellite* screen, users must tap EGNOS 123 or EGNOS 136. Then tap:



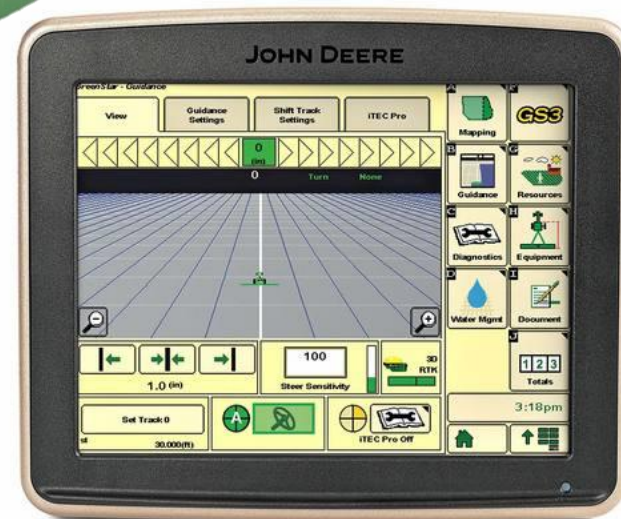


# Receiver John Deere SF 3000



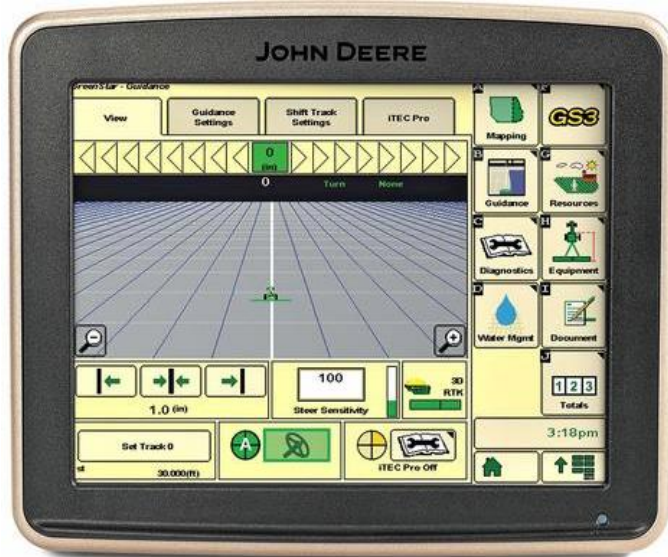
## Model: SF 3000

- EGNOS OS enabled
- GPS/SBAS receiver integrated in the antenna
- Greenstar 3 display



# John Deere SF 3000: EGNOS OS configuration

1. After startup, the Greenstar 3 display homescreen layout is shown:



2. To start the EGNOS OS setup, the user must tap:

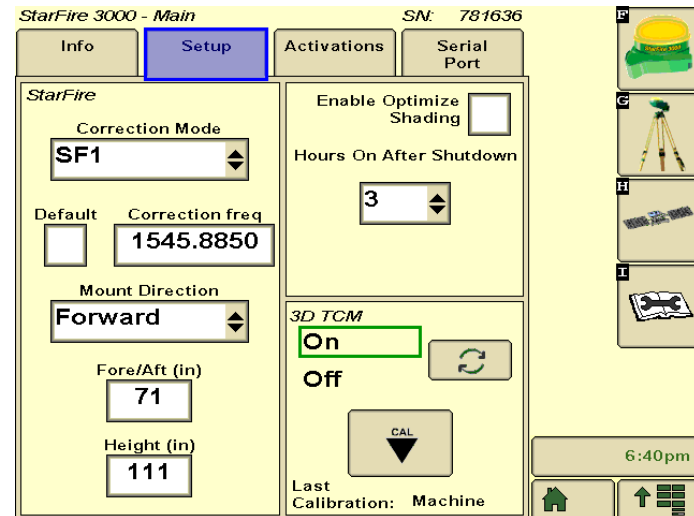


Menu

3. At the *Menu* screen, users must tap:



4. Then users choose the **Setup** tab and in **Correction Mode** select **OFF**:



Selecting OFF prohibits the StarFire receiver from receiving SF1 or SF2 correction signals, but it still receives WAAS/EGNOS correction signals.



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# Summary

**EGNOS & EDAS provide free GPS corrections for agriculture:**

EGNOS OS is a free of charge real time SATELLITE based correction service enhancing GPS accuracy (<30cm pass-to-pass) for agriculture throughout Europe



# Summary

## How to access to EGNOS & EDAS corrections for agriculture



Access to EGNOS requires a GPS/SBAS receiver

A wide variety of manufacturers offer receivers  
GPS/EGNOS capable

GPS/SBAS receivers are easily configured through the display.  
No registration is needed as EGNOS signal is ready to use.

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# THANK YOU!