



# How to configure (some) EGNOS receivers for Agriculture

## ESSP SaS



27.11.2019



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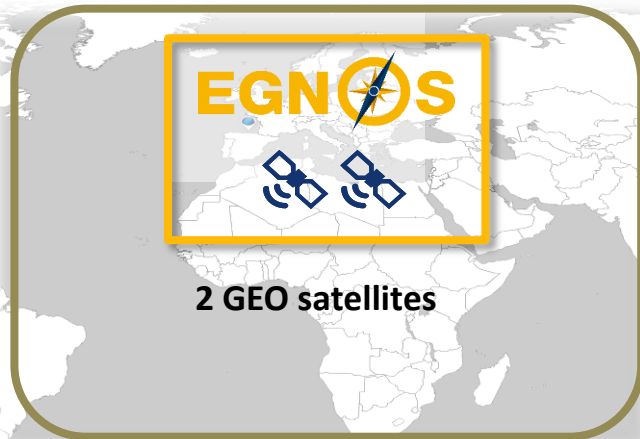
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**Let's access free GPS augmentation for agriculture**

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

EGNOS signal is provided **free of charge** by **GEO satellites** 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



# How to configure your GPS / SBAS receiver

# 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



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# 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



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# AgLeader GPS6500: EGNOS OS configuration

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



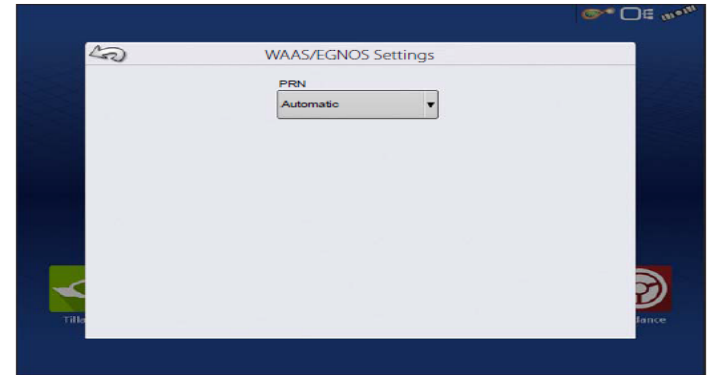
2. To start the EGNOS OS setup, the user must tap:



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



4. Finally, the user can configure one of the EGNOS operational GEOs or Automatic (see this [link](#))



# Receiver Trimble CFX-750



## Model: CFX-750

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



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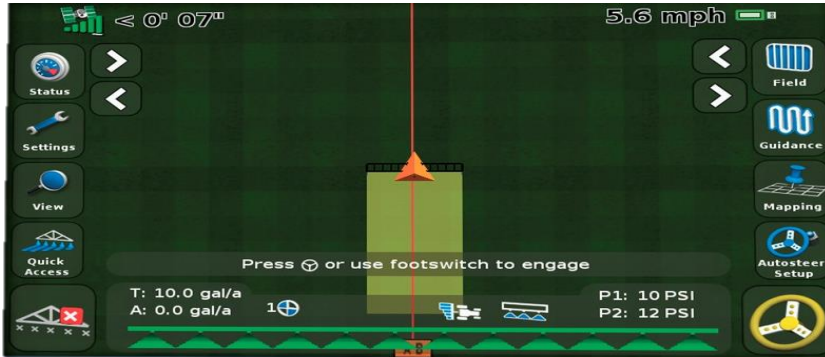


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# Trimble CFX-750: EGNOS OS configuration

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 the [PRN currently broadcasting corrections](#). Then tap:

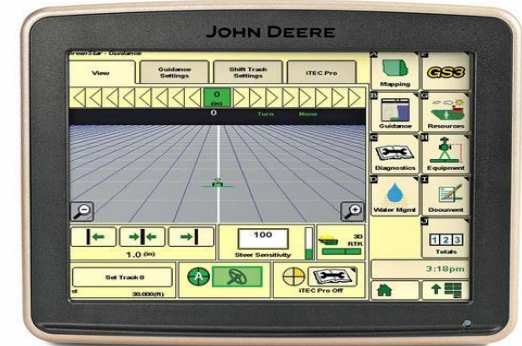


# Receiver John Deere SF 3000



## Model: SF 3000

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



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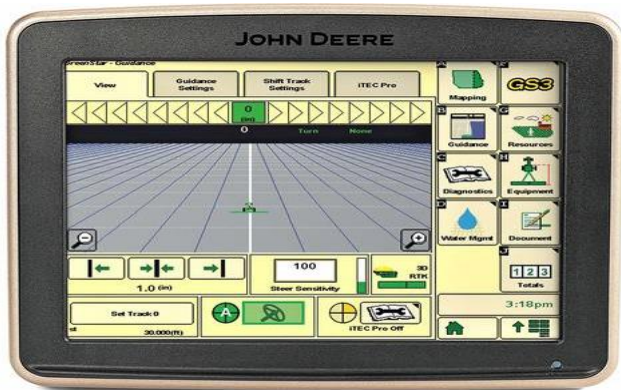
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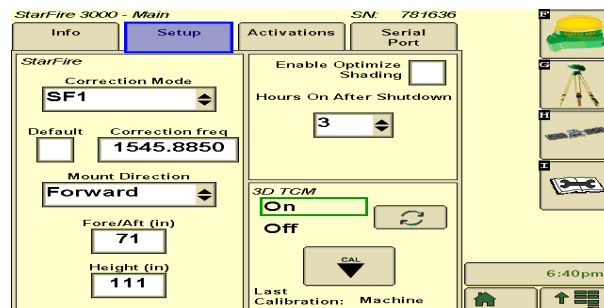
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# John Deere SF 3000: EGNOS OS configuration

1. After startup, the Greenstar 3 display homescreen layout is shown:
3. At the *Menu* screen, users must tap:



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



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



Menu



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



# Summary



# 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 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.

Check PRN codes broadcasting EGNOS operational signal [in this link](#)



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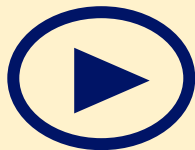


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[egnos-helpdesk@essp-sas.eu](mailto:egnos-helpdesk@essp-sas.eu)

+34 911 236 555 (H24/7)



Corporate Video

# Thank you!