

Please find below information on WAAS for the US and Europe:

# Wide Area Augmentation System

# WAAS

## New GARMIN Products to Support WAAS

The Wide Area Augmentation System (WAAS) provides differential GPS corrections through a system of ground stations and several geosynchronous satellites. The program is being developed to support the Federal Aviation Administration and the Department of Transportation for precision approaches. Using select GARMIN GPS products with WAAS capable receivers, users can now realize position accuracies better than 9 feet, 95% typical. WAAS corrections do not require the purchase of additional equipment and there are no service charges. Additionally, WAAS signal corrections are transmitted using microwave frequencies that are not affected by electrical noise from thunderstorms.

GARMIN products supporting WAAS are the recently announced GPS 152 marine track plotter, eTrex Venture, Legend and Vista. The existing GPSMAP 162 and GPSMAP 168 Sounder can also support WAAS corrections with a software update. To obtain a free software update for the GPSMAP 162/168, customers may visit the GARMIN Web site: <http://www.garmin.com/support/download.html>.

It is important to note that WAAS corrections are transmitted from several multipurpose stationary satellites. The current position of these satellites is such that reception can be difficult when the view of the horizon is obstructed by trees or mountains. Current WAAS satellite coverage is only for the Americas. Similar systems are under development in Europe (EGNOS) and Asia (MSAS).

The test signals for the EGNOS system currently identify it as 'unuseable' so none of the units will lock-on or display satellite 33 (the number for the EGNOS satellite).

If a customer enables WAAS, their unit will search and lock-on to satellite 35, which is for the US east coast coverage - this will normally give an EPE 20 to 100% worse than if WAAS is disabled - therefore, **until EGNOS is declared operational it is not recommended that a European customer enables WAAS.**

The current schedule we have still states 2003/2005 before EGNOS (EUROPE) will become operational.