MULTIMODE GNSS RECEIVER

Use of a table / almanac that allows to frame the uncertainty on a GPS measurement

Technological benefits

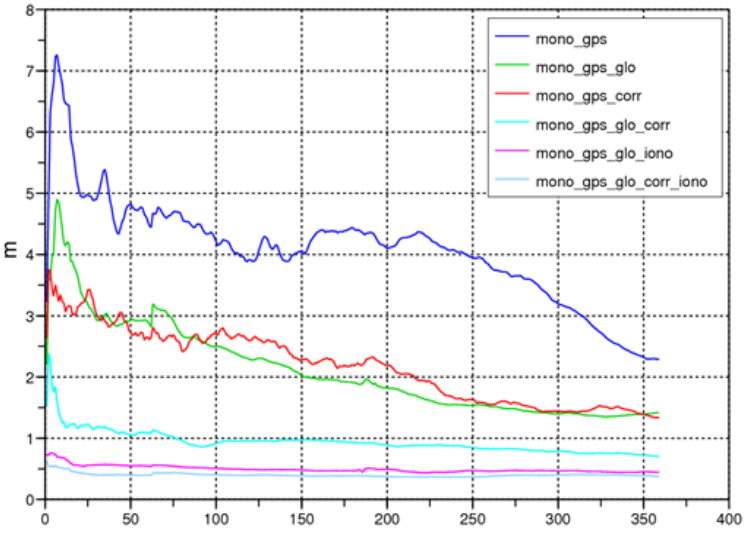
Comprehensive analysis of error items

- Taking into account all the error items
- Contributions quantification of each item to the overall error

A controlled error

- Errors grouping of each station in order to frame the maximum error

Mono-frequency convergence



Invention overview

The aim of this invention is to frame the error on the GPS measurements in order to have a reliable range of this error and to improve the system integrity. This objective is achieved by identifying and quantifying the error positions. These errors are then combined to determine the overall error.

Commercial benefits

Control of accident risks

- Accidents are more predictable and more controlled

Accident reduction

- It is thus possible to reduce accidents due to positioning errors (in particular on autonomous vehicles)

Potential applications

GPS location

- GPS positioning errors reduction

Autonomous vehicles

- Reduction of accidents due to GPS positioning errors thanks to better framing of these errors

TRL : 5-6

Property 100% CNES

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