Geophysical Research Abstracts Vol. 14, EGU2012-6434, 2012 EGU General Assembly 2012 © Author(s) 2012



The use of reference systems for UAV flight routing

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Tasks to UAVs in the world today require greater precision and increased the area of flight, what causes that piloting the UAV becomes a task requiring precise data on the planned trip and the current position. During the work on a dedicated industrial video-surveillance system using UAVs have been tested two solutions to determine the precise position using ASG-EUPOS and EGNOS SISNET. As a result of experiments, the solution guarantees on Polish territory accurate data is ASG-EUPOS, while the solution based on EGNOS SISNET a solution to operate within the range of EGNOS, the whole of Europe. The solutions were tested in two ranges:

1.Post-processing,

2.Real Time.

The post processing and measurement sessions performed on the flights were carried out to map the route. In real time the position was made corrections obtained in real time during flight.