

ADS-B IN-SKY SAFETY - MAKING LISTEN2PLANES PACKAGE AVAILABLE TO DOWNLOAD. M. Wilkinson¹ and J. Rodriguez¹, ¹NERC Space Geodesy Facility, Herstmonceux, UK, matwi@nerc.ac.uk

Introduction: At the 18th ILRS Workshop in Fujiyoshida, Japan in 2013 we reported[1] on the development at SGF Herstmonceux of an in-sky aircraft safety system utilising ADS-B technology to automatically inhibit laser firing.

The system operates using a SBS-3 receiver from Kinetic Avionics to which a server makes a TCP/IP connection. Clients connect to the server to receive the decoded data stream and include a visual display and an audible warning of aircraft approaching the laser beam.

The system has been found to be highly stable, reliable and accurate. Some issues have however been observed for some aircraft during ranging operations.

A revised version of the server, clients and telescope information client have been made available on GitHub (<https://github.com/matwiNERC/listen2planes> and <https://github.com/jcrod/l2pGUI>) to be adapted, used and further developed by other SLR stations.

References:

[1] Wilkinson M., Rodriguez J. , *Integration of a SBS-3 ADS-B receiver into the SGF, Herstmonceux aircraft safety system*, 18th ILRS Workshop, 2013. (<http://cdis.gsfc.nasa.gov/lw18/docs/papers/Session8/13-03-07-Wilkinson.pdf>).