

## **NOTICE FOR THE INCHEON (RKRR) FLIGHT INFORMATION REGION (FIR)**

U.S. operators flying in the Incheon FIR (RKRR) may experience GPS navigation systems interference and/or disruption. From March 31 – April 05, 2016, North Korea is alleged to have broadcast jamming signals which interfered with aviation and maritime navigational systems and mobile communications, in the vicinity of Incheon International Airport (RKSI). One pilot incident report from early April, described interference that resulted in the loss of the GPS signal approximately 100 nautical miles from Incheon international airport. On that same approach to the airport, at approximately 50 nautical miles, the aircraft's Internal Navigation System began to malfunction. On final approach to Incheon, the aircraft's Traffic Alert and Collision Avoidance System lost terrain information. Although no equipment damage was reported, that incident demonstrates a flight safety risk.

The 2016 multi-day purposeful interference event was similar to the navigation interference and/or disruption experienced during 2012. During the 2012 period, civil aviation operators were exposed to interference on several occasions that impacted GPS navigation during approach and departure at Incheon International Airport (RKSI). Some pilots reported GPS navigational errors while on approach to Incheon International Airport, which in some cases required the aircraft to execute a missed approach procedure.

Interference similar to the 2016 and 2012 incidents could reoccur in the future, particularly during periods of military exercises or political tension on the Korean Peninsula and/or significant North Korean national anniversary dates. While GPS interference with civil aviation may not be a frequent occurrence, North Korea is equipped with jamming capabilities and could employ these systems with little or no prior warning. Pilots should be prepared to use non-GPS reliant navigation in the event that interference and/or disruption is encountered.

Report any GPS interference or disruption encountered in the Incheon FIR (RKRR) to the FAA at [aeo-citewatch@faa.gov](mailto:aeo-citewatch@faa.gov) or at +1 202 267-3333 or 1-844-412-1794.

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