Observing Altimetry System Error (ASE) 
Nominal ASE Observations

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Overview

• Prior to reviewing ASE case studies, several nominal cases are provided for discussion
Results for Airworthiness-Approved Airframes

Note: ASE variance estimate reduced by assumed measurement variance of (4.4 ft)^2
Date of Chart: Friday, February 22, 2019
Example ASE Measurement (1)
Example ASE Measurement (2)
Example ASE Measurement
737-7H4 (NX) Delivered 10/04/2009

Repeated AGHME Measurements
December 1, 2014 to December 8, 2015

Nominal
Example ASE Measurement
737-7H4 (NX) First Flight 2/23/2006

Repeated AGHME Measurements
December 4, 2014 to December 12, 2015

Nominal
Example ASE Measurement
737-7H4 (NX) First Flight 1/26/1999

Repeated AGHME Measurements
December 2, 2014 to December 11, 2015

Nominal
Example ASE Measurement
737-7HX (NX) First Flight 4/02/1999

Repeated AGHME Measurements
December 10, 2014 to December 12, 2015

Nominal
Example ASE Measurement
First Flight 07/12/2000

Repeated AGHME Measurements
January 1, 2015 to January 19, 2016

Nominal
Example ASE Measurement
737-924 (ER)(WL) (NX) First Flight 02/10/2013

Repeated AGHME Measurements
January 1, 2015 to December 30, 2015

Nominal
Example ASE Measurement
737-7H4 (NX) First Flight 1/07/1999

Repeated AGHME Measurements
December 14, 2014 to December 7, 2015

ASE Step Change
Example ASE Measurement
737-7H4 (NX) First Flight 7/26/1999

Repeated AGHME Measurements
December 2, 2014 to December 13, 2015

ASE Step Change
Summary

• ASE is measured regularly on aircraft that fly over the AGHME sites located throughout the US and Canada
  ✤ ASE is also calculated on ADS-B version DO-260B aircraft

• ASE Measurement Noise includes positioning errors as well as meteorological model errors

• ASE compliance is determined by an experienced team that evaluates multiple ASE measurements and cross-checks

• Feedback on performance changes after maintenance may assist with corrections on aircraft with issues