



BEA

Bureau d'Enquêtes et d'Analyses
pour la sécurité de l'aviation civile



www.bea.aero

ITSA 2018
BEA 2017 developments and experience

Rémi Jouty, Director



2017 Domestic Investigations - all categories

- **109** Accident investigations (**98** general aviation, **5** commercial transport, **6** aerial work)
 - 32 fatal accidents (all GA), 46 fatalities, « normal » year
 - Loss of control main category of GA fatal accidents
 - 118 Accidents NOT investigated (mostly non fatal ultralight or homebuilt)
- 13 incidents (6 GA, 7 commercial transport)
- Total **122**
 - 116 investigations in 2016



2017 Foreign Investigations- All categories BEA as Accredited Representative (AccRep)

- 115 Accidents (28 commercial transport, 58 GA)
- 157 incidents (141 commercial transport, 7 GA)
- Total **272**

- Similar to 2016 figures
- High involvement as representative of state of design
- High number of large aircraft incidents that would not be regarded by BEA as deserving a full annex 13 investigation.



2017 Foreign Investigations - above 5,700kg / BEA as AccRep

- *1 serious incident involving a foreign carrier in French airspace, delegated to the state of the operator*
- *2 serious incidents involving French commercial operators*
- **121 incidents/serious incidents, BEA ACCREP as State of Design or Manufacture**
- **21 accidents, BEA ACCREP as State of Design or Manufacture**
- *Only 2 fatal accident (ATR42 Canada - 1 fatality, AS332 Japan – 4 fatalities)*



Foreign Investigations- above 5,700kg BEA as AccRep / Major accidents with significant BEA involvement

- 29/04/2016 : EC225 Norway, loss of main rotor in cruise,
 - 19/05/2016 : A320 Egyptair, Fire in cockpit during cruise,
 - 27/08/2016 : B737 United States, uncontained engine failure (CFMI56),
 - 7/12/2016 : ATR42, Pakistan, engine failure/loss of control,
 - 8/11/2017 : AS332, Japan, loss of tail rotor effectiveness,
 - 13/12/2017 : ATR42, Canada, collision with terrain after take off.
-
- **BEA foreign investigation activity reflects very safe year 2017 for commercial transport**

2017 Major BEA investigations

- 11/03/2017 Air France A340 abnormally long take-off in Bogota (investigation delegated by Columbian Authority) :
 - issues with rotation rate at take-off and certified performance
- 30/09/2017 Air France A380, Engine #4 Fan separation in cruise over Greenland, diversion to Goose Bay (investigation delegated by Danish Authority).
 - Fan Hub failure, root cause still to be determined. On going searches on the Greenland ice cap for missing fan hub part



2017 BEA Reports



- *92 final reports issued in 2017*
 - *152 final reports issued in 2016*
 - *slight increase in backlog of on going investigations*
 - *In progress for issuance of simple reports*
 - *Managing timelines for large and complex investigations remains challenging*

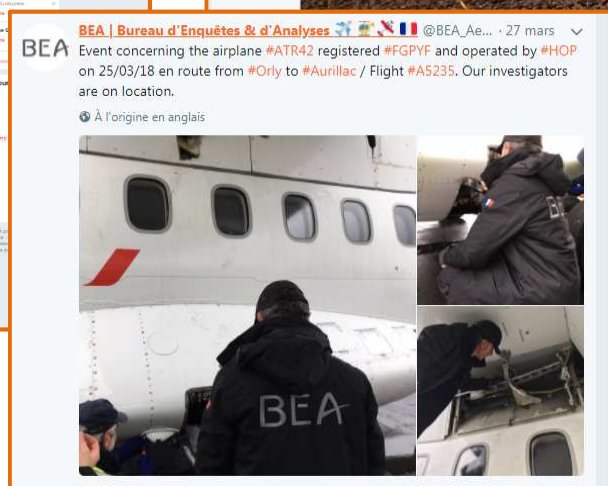
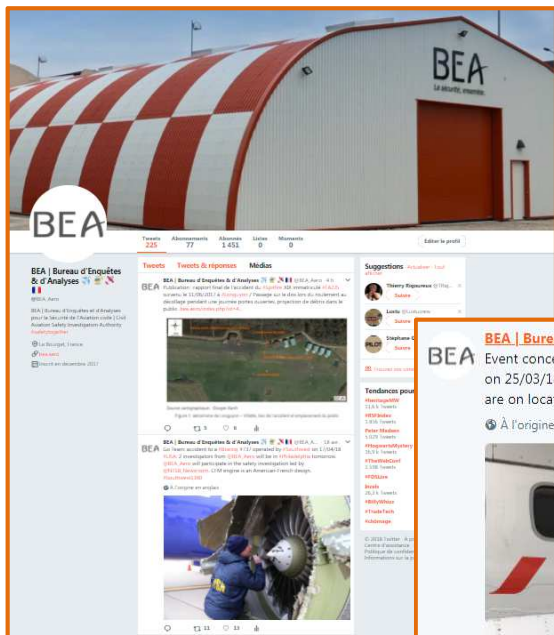


BEA 

New Hangar for wreckage examination

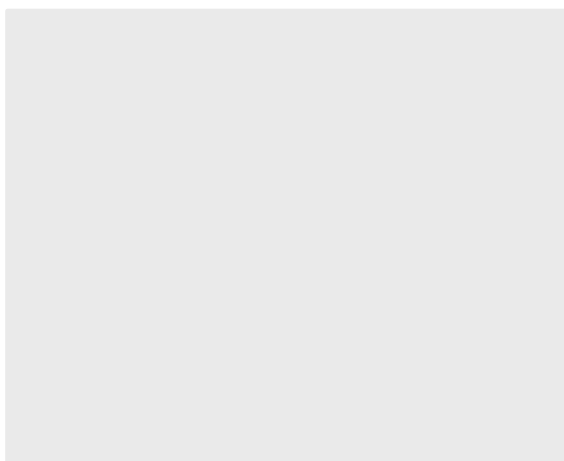


BEA on Twitter





BEA
Bureau d'Enquêtes et d'Analyses
pour la sécurité de l'aviation civile



www.bea.aero

Thanks for your attention

