ABBREVIATIONS

MAU ARCHITECTURE:

- **ARINC 429 BUS**
- **NIC:** Network Interface Controller
- **ASCB:** Avionics Standard Communication Bus
- **Backplane:** Allows multiple connection of modules within the MAU
- **Personality Module:** Fitted to Micro IRS – MAU – Standby Instruments

ASC 906: Delta includes ADS-C
ASC 907: Echo
ASC 908: Foxtrot (ASC 083 – BASIC)
ASC 908: (ASC 084 – Enhanced Navigation with CPDLC)
ASC 908: (ASC 085 – XM Weather)
ASC 909: (as above but with ADS-B)
ASC 909B: (as above but with ADS-B as part of ASC105 or ASC111)
ASC 910: (as above)
ASC 911: (as above)
ASC 105: Includes ADS-B requires Enhanced Navigation
ASC 111: Includes CPDLC and ADS-B does not require Enhanced Navigation

SATELLITE SYSTEMS

- **GLONAS:** Russian Version of WAAS
- **EGNOS:** European Geostationary Navigation Overlay Service (SBAS or WAAS equivalent)
- **GALILEO:** European GPS – available in 2016
- **GAGAN:** GPS Aided Geo Augmented navigation (Indian)
- **MSAS:** Multi Functional Satellite Augmentation System (Japan)
- **GNSS:** Global Navigation Satellite System (Europe)
- **GPS:** Global Positioning System (USA)

GPS TERMS

- **VDOP:** Vertical Dilution of Precision (Satellite Geometry) (VIL)
- **HDOP:** Horizontal Dilution of Precision (Satellite Geometry) (HIL)
- **HFOM:** Horizontal Figure of Merit
- **VFOM:** Vertical Figure of Merit
- **RAIM:** Receiver Autonomous Integration Monitor

ASC 908 – ENHANCED (ASC084)

- **WAAS:** Wide Area Augmentation System – Fox Enhanced
- **SBAS:** Space (Satellite) Based Augmentation System – Fox Enhanced
- **LPV:** Localizer Performance with Vertical Guidance
- **LAAS:** Local Area Augmentation System (Future)
- **VGP:** Vertical Glide Path
- **HIGH:** Honeywell Integrity Hybrid GPS (HIGH Step II = Hybrid IRS)

ABBREVIATIONS

COMMS

ACARS: Aircraft Communications Addressing and Reporting System

- **ACARS (analog) Mode A**: 2.4 kilobits per second (kbs)
- **VDL Mode 2 (digital):** 31.5 kilobits per second (kbs)
- **VDL Mode X:** No Comm
- **SAT-UHF:** 9.6 kilobits per second (kbs)

ADS: Permits an ATC centre to request the ac to automatically transmit , via DLK ac derived data from onboard nav systems.

ADS-B: Automatic Dependent Surveillance – Broadcast (system Broadcasts data constantly)

ADS-C: Automatic Dependent Surveillance – Contract (Monitor) three types:

- **Periodic Contract:** The aircraft assembles & transmits a message containing the fields at the **interval specified** in the **contract** request.
- **Event Contract:** Defines **certain events** (such as altitude change) which will cause a report to be sent.
- **Demand Contract:** Is sent each time it is **commanded** from the ATS provider system.

ATSU: Air Traffic Service Unit

AFN: ATS Facilities Notification (G550 Secure Communication Line)

AMI: Airline Modifiable Information

AOC: Aeronautical Operation Communications

ARINC: Aeronautical Radio, Incorporated

ATN: Aeronautical Telecommunication Network

ATS: Air Traffic System

CMF: Communication Management Function

CPDLC: Controller Pilot Data Link Communications. Is an ATS application in which pilots and controllers exchange messages, through the use of DLK. Includes a set of clearance/information/request message elements which correspond to existing phraseology used by current air traffic control procedures.

DSP: Data Link Service Provider

FANS 1/A: Future Air Navigation System (1 = Boeing A = Airbus)

GES: Ground Earth Station

GOLD: Global Operation Data Link Document

INMARSAT: International Maritime Satellite Organisation. 4 INMARSATS for ADS with sample GES

- **PACIFIC** – 872 (Kobe / Perth)
- **ATLANTIC W** – 874 (Aussaguel)
- **ATLANTIC E** – 871 (Aussaguel)
- **INDIAN** – 873 (Perth)

NATS: Gander:CZQX - Shanwick:EGGX - Reykjavik:BIRD - Santa Maria:LPPO - New York:KZWY - Bodo:ENOB

OCA: Oceanic Control Areas

ORCA: Oceanic Route Clearance Authorisation

SDCS: Satellite Data Communication System

SITA: Société Internationale de Télécommunications Aéronautiques

TWIP: Terminal Weather Information for Pilots