Continental Micronesia

Micronesia LAAS Proposal

Captain Dion Johnson

Manager, Flight Standards

Background

- Industry preference of LAAS vs. WAAS
- Proven development but not yet FAA certified
- NG fleet preconfigured with MMRs
- Phase I first, then PT1 (CAT II and III)
- Need for a launch air carrier
- Micronesia location studied
- CMI stepped up to the plate

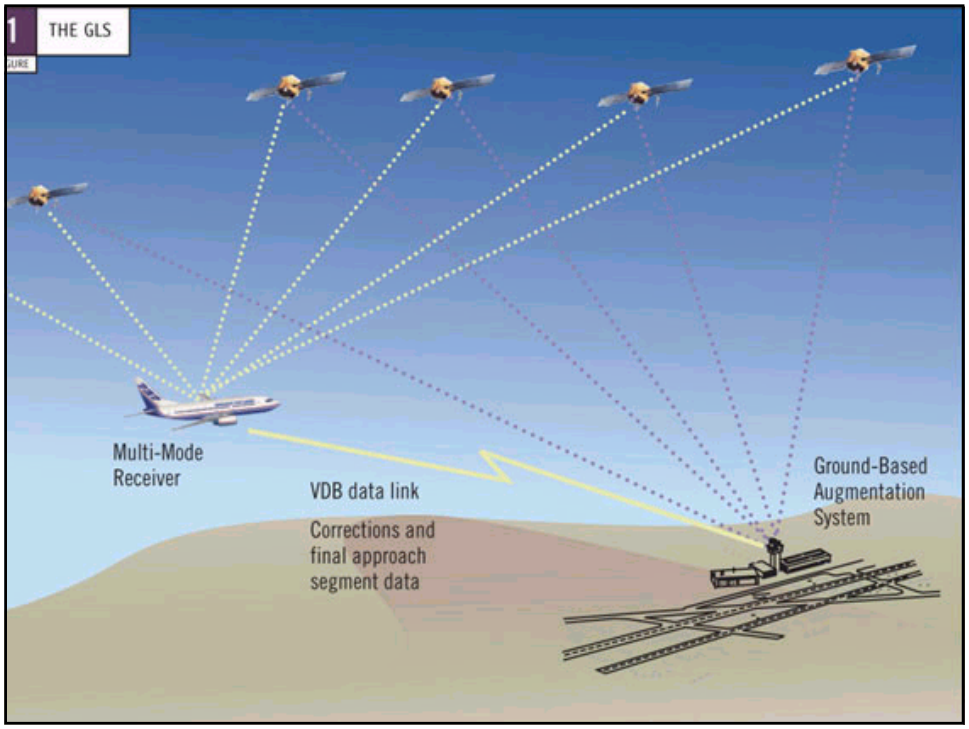
Summary of CMI Situation

- Need for lower minimums into islands
- Safety – alignment of final approach
- Economics of providing essential air service
- Isolated CMI fleet of nine B737-824s
- Priority: Guam International Airport, GUM
  - Chuuk Island, TKK
  - Pohnpei, PNI

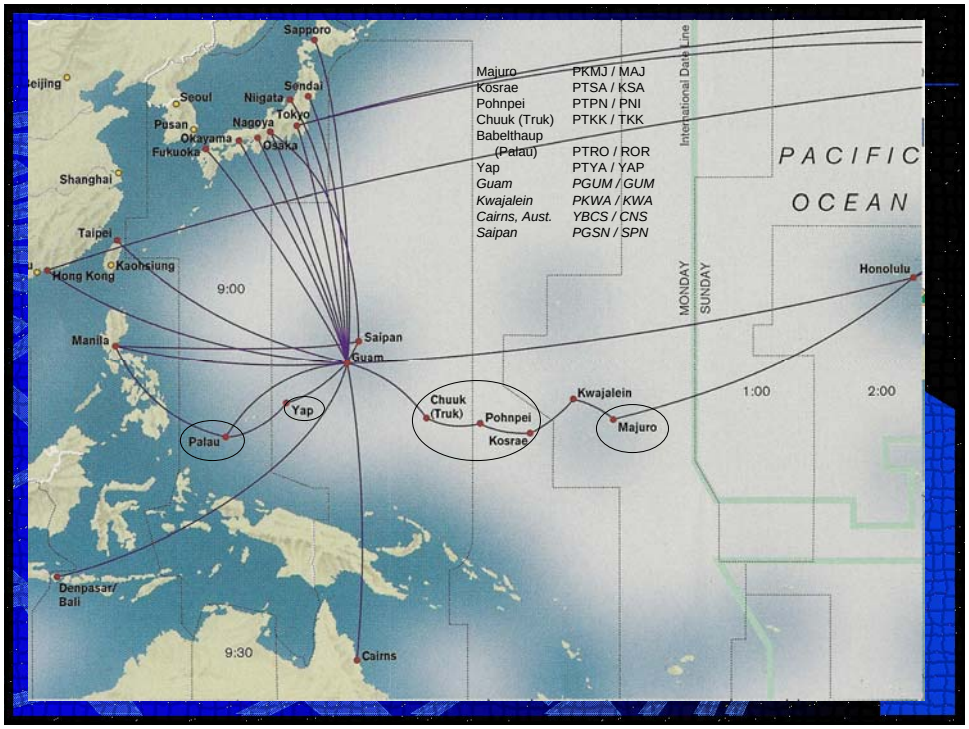
Industry Partners

- Honeywell GBAS
- Rockwell-Collins MMR
- Boeing NG GLS

GLOBAL NAVIGATION SATELLITE SYSTEM
LANDING SYSTEM
The aviation industry is developing a new positioning and landing system based on the Global Navigation Satellite System (GNSS). The GNSS landing system (GLS) integrates satellite and ground-based navigation information to provide the position information required for approach and landing guidance.
(More.)


1
THE GLS
Multi-Mode Receiver
VDB data link
Corrections and final approach segment data
Ground-Based Augmentation System

4
GLS AS ACTIVE
ACT
STBY
TEST
MODE
GLS 20000
ILS 108.10
NAV
CLR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Sendai
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Kaohsiung
Hong Kong
9:00
Manila
Saipan
Guam
Yap
Palau
Chuuk (Truk)
Pohnpei
Kosrae
Kwajalein
Majuro
Denpasar/ Bali
9:30
Cairns
Honolulu
1:00
2:00
MONDAY
SUNDAY
International Date Line
PACIFIC OCEAN
Majuro PKMJ / MAJ
Kosrae PTSA / KSA
Pohnpei PTPN / PNI
Chuuk (Truk) PTKK / TKK
Babelthaup (Palau) PTRO / ROR
Yap PTYA / YAP
Guam PGUM / GUM
Kwajalein PKWA / KWA
Cairns, Aust. YBCS / CNS
Saipan PGSN / SPN

Benefits to launching LAAS in Guam and Micronesia

- Guam Airport - an international leader in application of GBAS technology
- 40+ flights per day of data provides rapid proof of mitigation procedures and equipment reliability
- Enhanced reliability in Typhoon conditions
- Quickest way to prove CAT I IMC autoland and gain certification

Questions and Discussion

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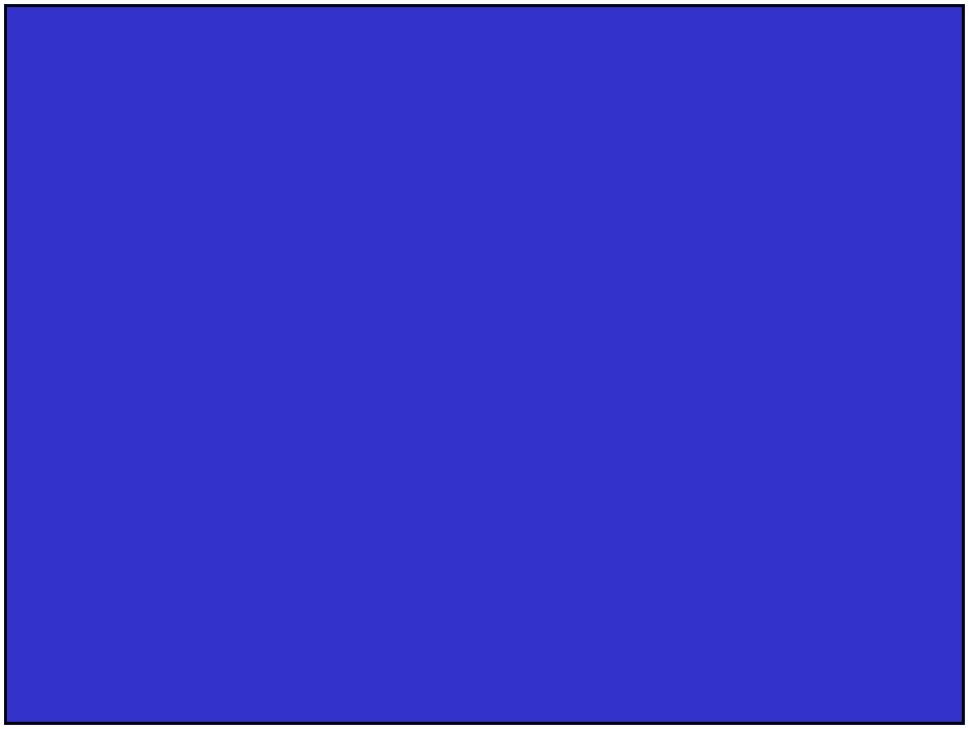
Continental
Micronesia
The Airline of Choice