



Know the Earth... Show the Way... Understand the World

Moving Towards Electronic Aeronautical Charts NGA Intl Aero Rep Fred Calfior 28



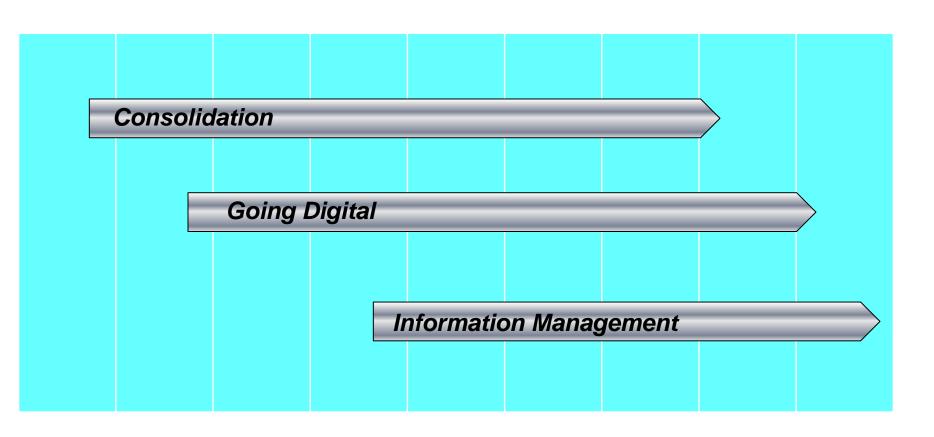






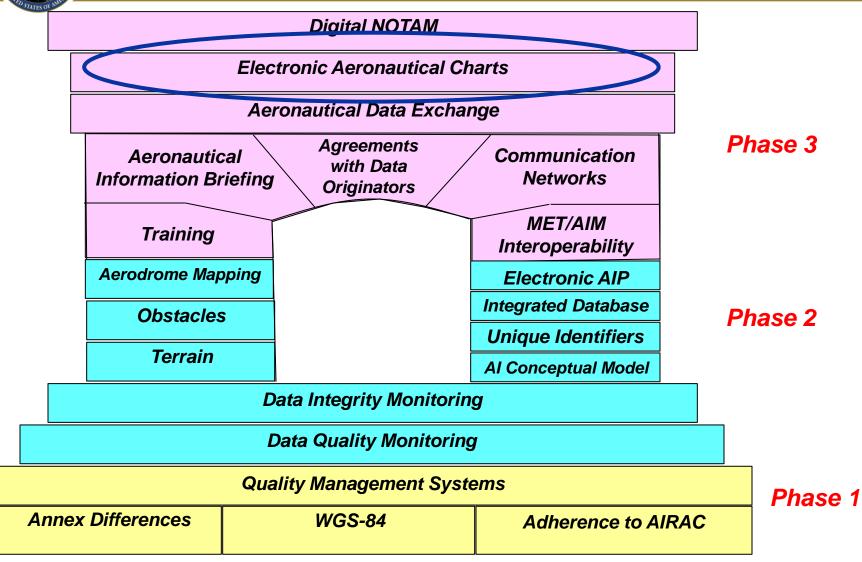
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AIS to AIM Roadmap – 3 Phases













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Aeronautical Services

Col Schenk, USAF, Director Mark Muncell, Deputy

Asia-Pacific **Americas** Division

Eurasia Africa Division

Global Aeronautical **Division**

Standards & **Process Support / Technical Support Division**

The Safety of Navigation mission supports peacetime and wartime operations worldwide





NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY **Digital Aeronautical Flight** Information File

(DAFIF®)

DAFIF 0403

Effective: 18 MAR 04 To: 14 APR 04

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Specification: ED 6 & ED 7



Interim Global Air Traffic Management (GATM) Certification 8 May 2003 DAFIF, NAVAID, DAFIFT, T_TRANS, GPS Almanac, GEOMAG. WMM_2000, PLAN, MIDAFIF, and AVDAFIF

DAFIF is a DoD product produced and distributed for use by the U.S.Military forces. Contents may not be suitable for other users. Consult the insert for important additional information.

Consult NOTAMs for latest information.

NGA Name, seal & initials protected by 10 U.S.C § 425

NSN: 7644014717446 NGA REF. NO. PLANXCDDAFIF1



ED. NO. 049

CDMS 507300





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NGA's Safety of Navigation Mission

Submarine Navigation



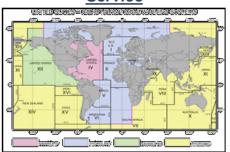
Surface Navigation



Aeronautical Navigation

NGA is a DoD <u>Combat Support Agency</u> and member of the US Intelligence Community – Every airman, soldier, and sailor that moves by air or by sea relies on NGA GEOINT

World Wide
Navigational Warning
Service



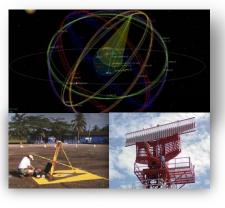
Mission Planning



Vertical Obstructions



Geomatics





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NFDC NACO

100



Obstruction Data



Aeronautical Services Office



System

to

System











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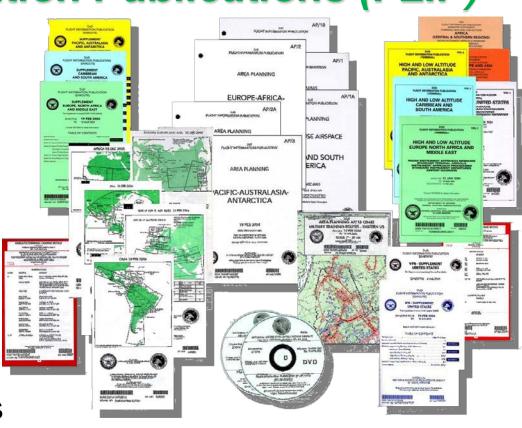
Flight Information Publications (FLIP)

Paper Products:

- Terminal Procedures
- Navigation Charts
- Supplement/Planning

Customers:

- DoD Aircrews
- Air Traffic Controllers
- Products are shared via agreements



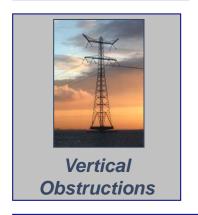


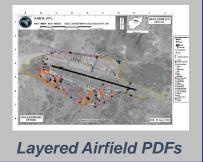


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Aeronautical Navigation Products and Data









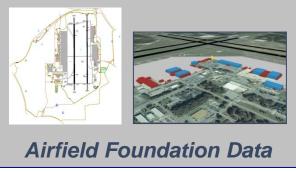
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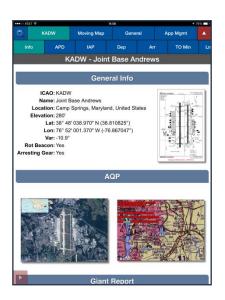


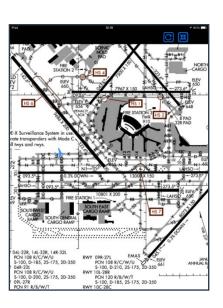


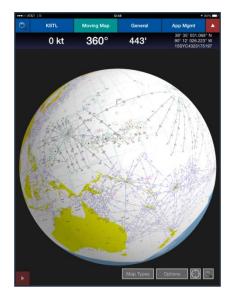
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Aeronautical Mobile Application

- Mission capable, supporting worldwide NGA aeronautical data
 - iOS, Android & Windows versions
- Moving map supports worldwide Enroute charts with own ship position
 - Geo-referenced Instrument Approach Procedures (IAPs) and Airport Diagrams

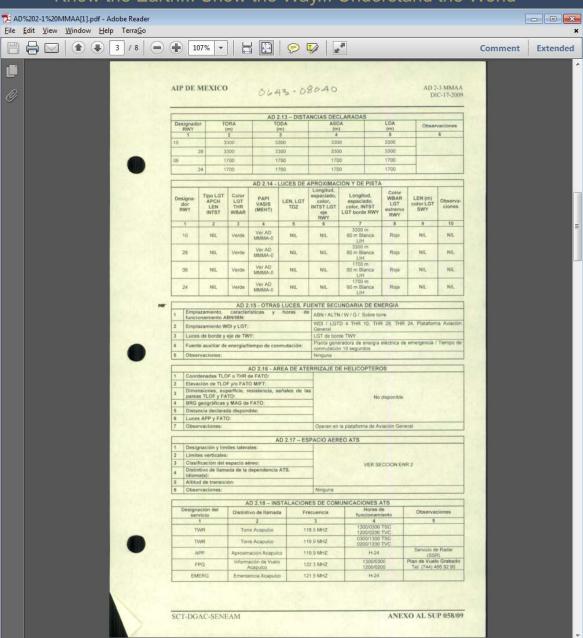




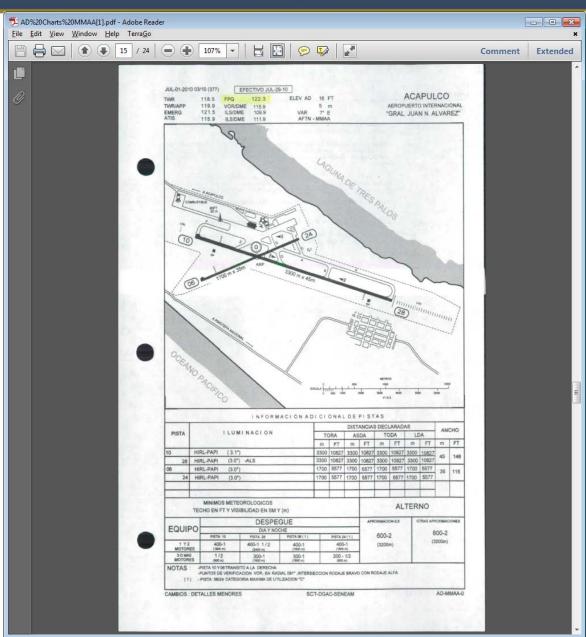








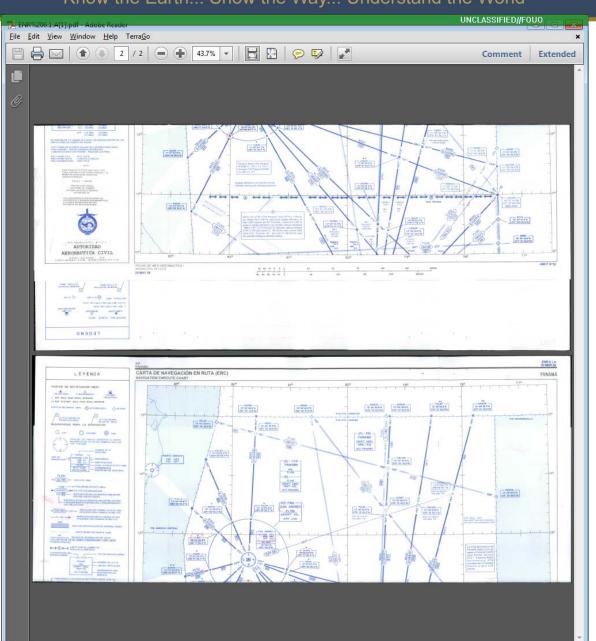




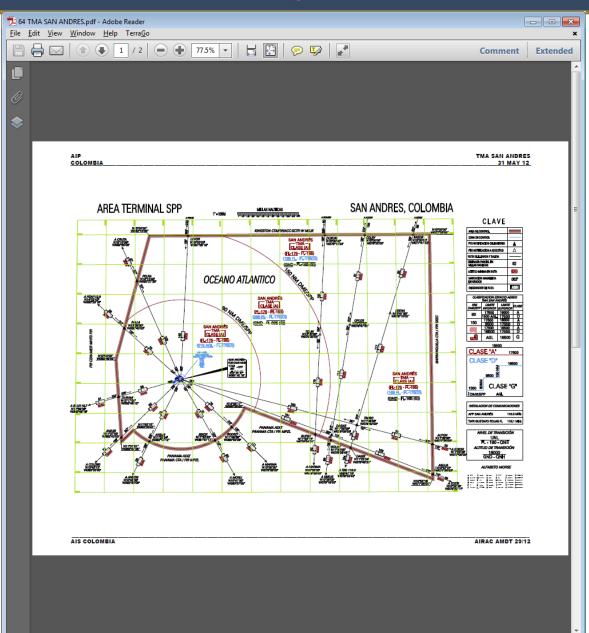




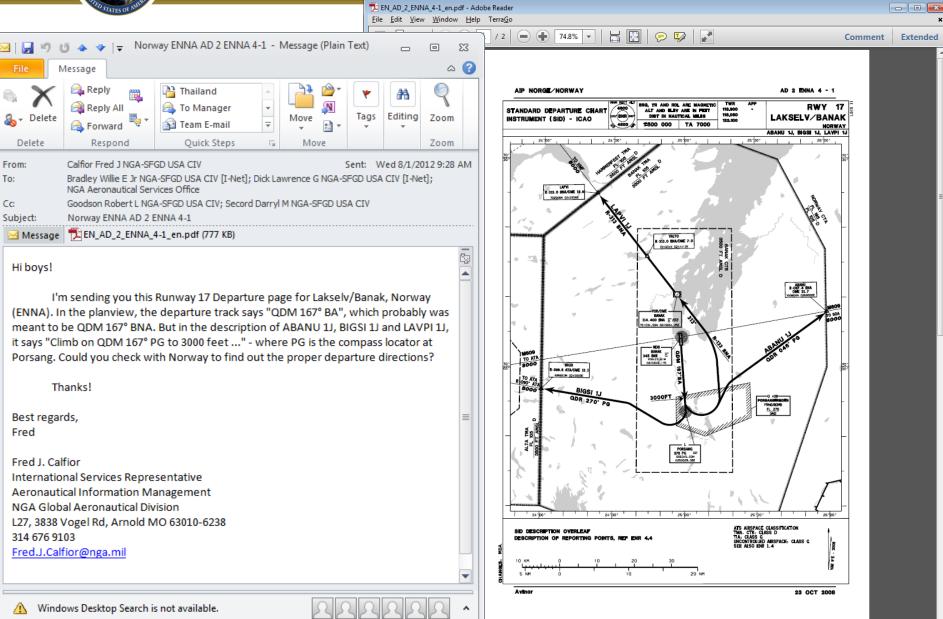




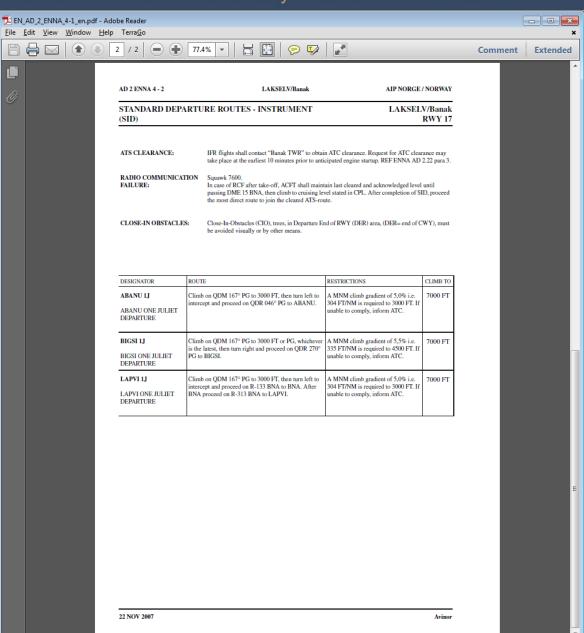
















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Digital Aeronautical Flight Information File (DAFIF)

- Global Flight Planning Information:
 - Digital Format (ArcGIS, FalconView, Google Earth)
 - Information Critical To Flight Safety
- Required for DoD Digital Programs:
 - Flight Planning Systems
 - Joint Mission Planning System (JMPS)
 - Portable Flight Planning System (PFPS)
 - Flight Management Systems*
- Updated Every 28 Days
- Available Via: CD/DVD

