Expeditionary Installation Geospatial Information and Services (EIGI&S) in the CENTCOM AOR

USAFCENT
Expeditionary GeoSpatial Information Office

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Expeditionary Installation Geospatial Information and Services (EIGI&S) in the CENTCOM AOR provides the Department of Defense cartographic data and analysis to assist the mission "To Project Decisive Air and Space Power for USCENTCOM and America." As part of this mission, AFCENT A7 EIGI&S (GeoBase) is tasked to support deployed personnel via technology and infrastructure. Air Force Portal users access this information through Enterprise GIS services which represent the collective efforts of ACC personnel from Headquarters down to the deployed Air Force GeoBase Technicians. This discussion will interest GIS users from many disciplines including defense and intelligence.
Overview

- Mission Objective
- CENTCOM Area Of Responsibility (AOR)
- AFCENT-Who we are
- AFCENT Support Staff
- Directives/Guidance
- Expeditionary GeoBase Process Model
- Field Collection Devices
- Data Management
- Air Force Portal
- Future Objectives
Mission Objective

Provide OIF/AEF Commanders of **Forward Operating Sites** (FOS) and **Cooperative Security Locations** (CSL) the support and procedures needed to transition into a capabilities-based expeditionary force focused on responsiveness, as outlined by the Air Force Chief of Staff, AFI 10-404, Expeditionary Site Mapping Concept of Operations and the CENTAF A7-CE Expeditionary GeoBase Implementation Plan.
Feel free to ask questions during the presentation or you may hold them until the end.
CENTCOM AOR
AFCENT – Who We Are

• Located at Shaw Air Force Base, South Carolina, the 9th Air Force is the headquarters for U.S. Central Command Air Forces (USCENTAF) and serves as the air component for a 27-nation area within the U.S. Central Command (USCENTCOM) area of responsibility. The 9th Air Force is also an intermediate headquarters under Air Combat Command and is responsible for five active-duty flying wings, as well as overseeing the operational readiness of 18 designated units of the Air National Guard and Air Force Reserve.
CENTAF IGI&S Management Team

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Directives/Guidance

• AFI 10-404 Base Support and Expeditionary Site Planning (09 Mar 2004)

• AFI 32-10112 Installation Geospatial Information and Services (Installation GI&S) (19 Oct 2007)

• Expeditionary Site Mapping Concept of Operations (ESM CONOPS) 01 Apr 04

• CENTAF GeoBase Policy Memorandum (20 Jan 2006)
  • CENTAF A7-CE Expeditionary GeoBase Implementation Plan
**Expeditory GeoBase Process Model**

- **Headquarters Air Force GeoSpatial Information Office (HAF GIO)** Establishes policy, guidance and direction as the Chief Information Officer of the Air Force Civil Engineer community for both information technology and geospatial information systems.

- **MAJCOM GIO** Provides program guidance and reach-back to NAF GIO and EGIO. Maintains Databases and Internet Map Services (IMS).

- **Numbered Air Force (NAF) GIO** Directs program for all activities in AOR. Provides program guidance, plans and reach-back support to EGIO and EGM. Maintains CIP data for MAJCOM GIO.

- **Expeditory GIO (EGIO)** Manages day to day operations providing full spectrum support to EGM. Coordinates, QA/QC's and submits all deliverables to NAF GIO.

- **Expeditory GeoBase Managers (EGM)** Accomplishes field surveys, manages site map, coordinates data collection with data stewards, and submits deliverables to EGIO per NAF Expeditionary Implementation Plan.
Field Collection

- Trimble 5700 RTK GPS
- **Accuracy**: centimeter accuracy
  - Primary Purpose: *roadway construction, tent construction building location.*
Field Collection
Surveying Tools Mapping Grade GPS

- Trimble GeoXT
- **Accuracy**: Sub-meter 30mm (post processed)
  - Primary Purpose: Expeditionary surveying of airfield areas during assessments
Data Management

- Desktop Software
  - ESRI ArcGIS 9.2 SP4
    - PGDB Format
  - Autodesk AutoCAD Map 2007(8) 3D
  - Trimble Geomatics Office
Data Management

- **AOR Maintained Data**
  - Geometry and Attributes
    - Tracked by CENTAF IGI&S
    - Monthly Retrieval
    - QC Process
    - CIP Checker in Redevelopment
  - Data Load
    - Migrating into SDE from PGDB

- **Reachback/GeoReach Maintained Data**
  - Raster Data is monitored and updated stateside
AFCENT on the AF Portal

• Map Services
  • Up-to-Date picture of what’s on the Ground
  • Presented using a light-weight GeoViewer
  • Access for all Portal Users
  • Secure Map
    • Limited access to sensitive content
  • Designed to Facilitate Access to Data by the General AF Public
  • Mike Cannon webadmin (HQ ACC)
Visit us on the AF Portal

https://www.my.af.mil
Keyword ‘CENTAF Geospatial’
Warehouse: Data and Maps

- **PROS:** Allows users to download content pertinent to their mission
  - Imagery and Geometry

- **CONS:** software restrictive
  - ArcGIS
  - AutoCAD

- GeoPDF Bridges the Gap
  - Some CONUS now
  - OCONUS soon

- **Freeware**
  - Greater ease of printing
  - Once downloaded, no internet connection is required to view content
  - **CONS:** static content is not updated

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**CENTAF Geospatial Information Office**

**ACC CENTCOM Data**

**Download CENTCOM Data**

ACC GeoBase Data Library - CENTAF Data

Click on the ‘plus sign’ to the left of the country to view which location folder to view its data objects available for download. The object to begin downloading.

- **Choose A Location**
  - AOR
  - Afghanistan
  - Bahrain
  - British Indian Ocean
  - Cyprus
  - Djibouti Ambouli
  - Egypt
  - Ethiopia
  - Greece
  - Iraq
  - Iran
  - Israel
What to Expect in the Future

• New GeoViewer Format
  • Higher functionality and improved print capabilities

• GeoPDFs Implementation

• Enterprise SDE
  • Entire AOR will be served out in a near real-time environment
Questions?

Feel free to contact the authors:

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