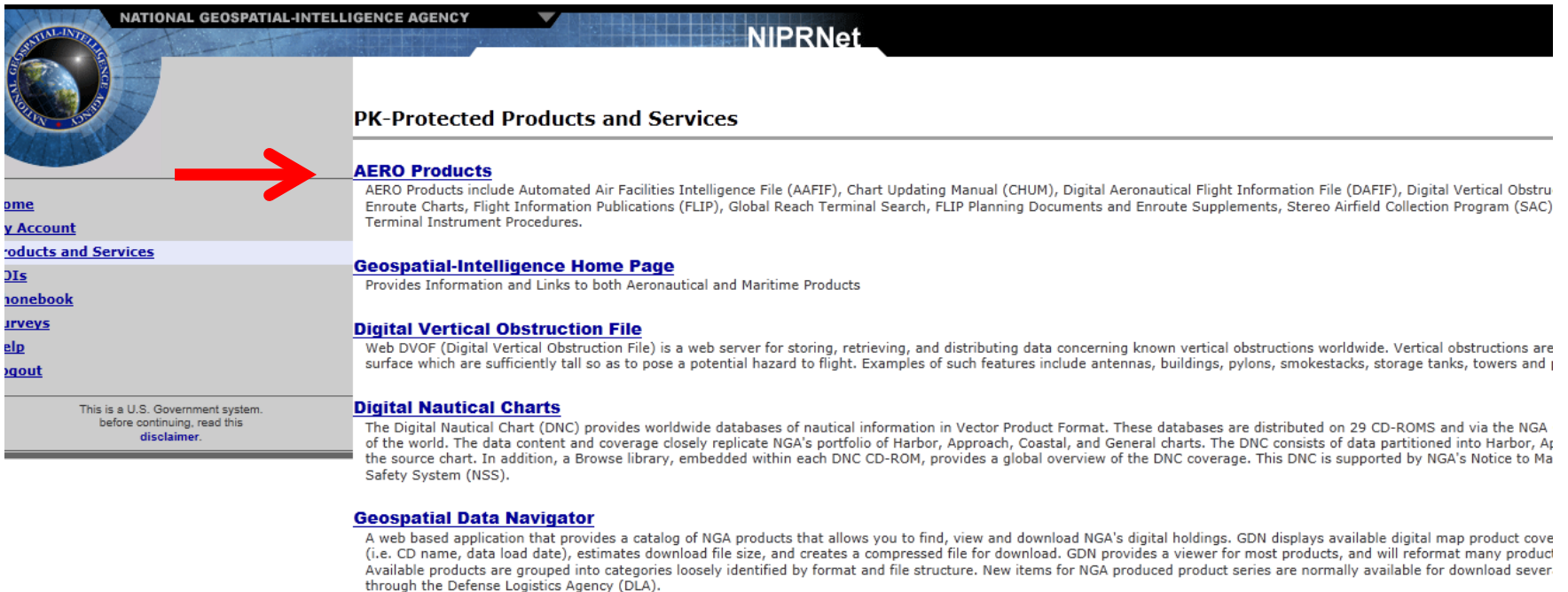


FLIPS on iPads

1. Get a CAC card Reader (and figure out how to get on PKI websites – check Militarycac.com)
2. Get an NGA account
3. Follow these basic instructions and enjoy

Information current on 08Mar12

Click “Aero Products”



The screenshot shows the NIPRNet website interface. The top navigation bar includes the National Geospatial-Intelligence Agency (NGA) logo and the text "NIPRNet". The left sidebar contains a list of links: "Home", "My Account", "Products and Services", "DIs", "Homebook", "Surveys", "Help", and "Logout". A red arrow points to the "Products and Services" link. The main content area displays the following sections:

- PK-Protected Products and Services**
- AERO Products**
AERO Products include Automated Air Facilities Intelligence File (AAFIF), Chart Updating Manual (CHUM), Digital Aeronautical Flight Information File (DAFIF), Digital Vertical Obstruction Charts, Flight Information Publications (FLIP), Global Reach Terminal Search, FLIP Planning Documents and Enroute Supplements, Stereo Airfield Collection Program (SAC) Terminal Instrument Procedures.
- Geospatial-Intelligence Home Page**
Provides Information and Links to both Aeronautical and Maritime Products
- Digital Vertical Obstruction File**
Web DVOF (Digital Vertical Obstruction File) is a web server for storing, retrieving, and distributing data concerning known vertical obstructions worldwide. Vertical obstructions are surface features which are sufficiently tall so as to pose a potential hazard to flight. Examples of such features include antennas, buildings, pylons, smokestacks, storage tanks, towers and jetties.
- Digital Nautical Charts**
The Digital Nautical Chart (DNC) provides worldwide databases of nautical information in Vector Product Format. These databases are distributed on 29 CD-ROMs and via the NGA's website. The data content and coverage closely replicate NGA's portfolio of Harbor, Approach, Coastal, and General charts. The DNC consists of data partitioned into Harbor, Approach, Coastal, and General charts. In addition, a Browse library, embedded within each DNC CD-ROM, provides a global overview of the DNC coverage. This DNC is supported by NGA's Notice to Mariners (NTM) Safety System (NSS).
- Geospatial Data Navigator**
A web based application that provides a catalog of NGA products that allows you to find, view and download NGA's digital holdings. GDN displays available digital map product coverage (i.e. CD name, data load date), estimates download file size, and creates a compressed file for download. GDN provides a viewer for most products, and will reformat many product formats. Available products are grouped into categories loosely identified by format and file structure. New items for NGA produced product series are normally available for download severally through the Defense Logistics Agency (DLA).

This is a U.S. Government system.
before continuing, read this [disclaimer](#).

Document last modified on 03/08/2012 18:53:14

Click “Aerospatial Services”

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NGA
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
Know the Earth... Show the Way... Understand the World

NIPRNe

Aero Products:

- AAFIF
- CHUM
- DAFIF
- DOF
- CHUM
- Aerospatial
- Services
- Electronic Flight
- Log
- FLIP
- ate/Missing FLIP
- Plan & Enroute
- SAC
- AGGS
- Terminal
- FAQ

Aeronautical Products:

 [Aerospatial Services:](#)

Aerospatial provides enhanced web technology for users to access multiple geospatial intelligence and aeronautical information databases and to "package" the information into user-specified formats. This capability provides access to data that comprises the many NGA aeronautical products and crosses over the traditional lines of AAFIF, DAFIF, FLIP, or Intel Imagery and makes all available as needed, with just a few clicks of the mouse. By using different options presented, users can create either a large package of relevant data or a small and very specific package, all in PDF format. The final printing format can be customized to a 5" x 7" kneeboard size or a full page 8½" x 11" size.

[Automated Air Facilities Intelligence File \(AAFIF\):](#)

A text file which contains evaluated information on aircraft movement surfaces (runways, taxiways, aprons, etc.), facilities, support equipment, services, operations, nav aids/communications, transportation and other items for approximately 47,000 airfields worldwide. [Information](#)

[Chart Updating Manual \(CHUM\):](#)

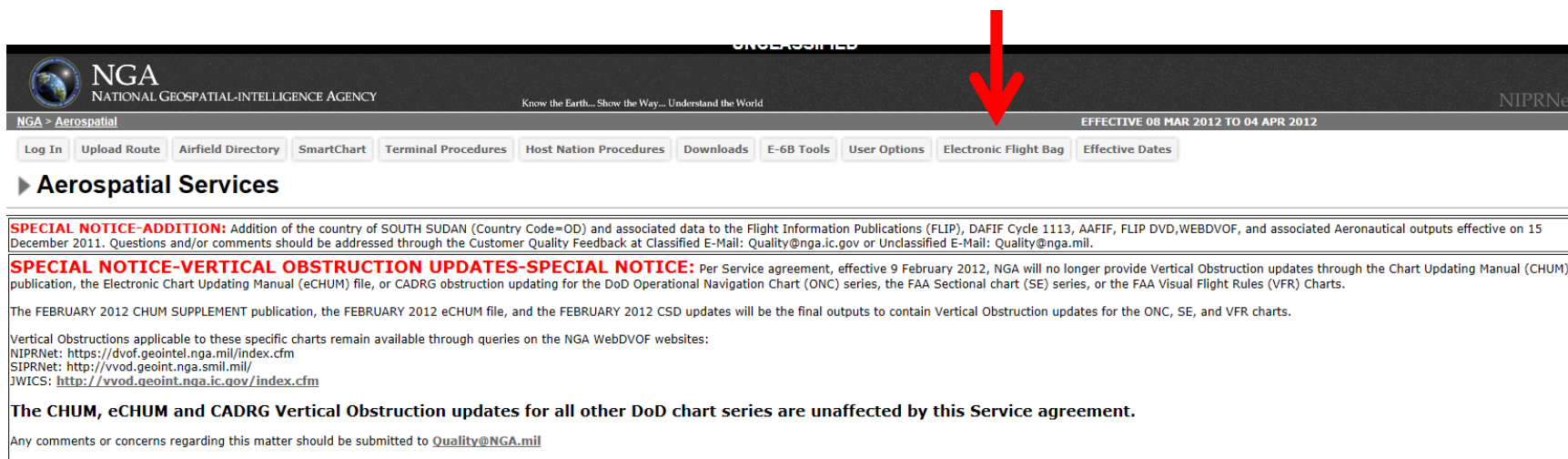
Hard copy CHUM semi-annual manual and supplement publications in compressed .pdf format. Enables customers the ability to keep charts current based on known aeronautical changes which have occurred since the original publication.

[Digital Aeronautical Flight Information File \(DAFIF™\):](#)

or Flight Data (DAFIF™)

(U) Consists of Airports, Heliports, Navigation Aids, Waypoints, ATS Routes, Airspaces Boundaries, Special Use Airspace, Military Training Routes, Parachute Jump Areas and Preferred Routes. DAFIF is used for flight planning and the programming of automated aircraft Flight Management Systems. The DAFIF product is presented on the website in its entirety. [Information](#)

Click “Electronic Flight Bag”



The screenshot shows the NGA Aerospacial website interface. At the top, there is a dark header bar with the NGA logo on the left, the text "Know the Earth... Show the Way... Understand the World" in the center, and "NIPRNet" on the right. Below the header is a navigation bar with several links: "Log In", "Upload Route", "Airfield Directory", "SmartChart", "Terminal Procedures", "Host Nation Procedures", "Downloads", "E-6B Tools", "User Options", "Electronic Flight Bag", and "Effective Dates". A large red arrow points down to the "Electronic Flight Bag" link. Below the navigation bar is a section titled "Aerospacial Services".

SPECIAL NOTICE-ADDITION: Addition of the country of SOUTH SUDAN (Country Code=OD) and associated data to the Flight Information Publications (FLIP), DAFIF Cycle 1113, AAFIF, FLIP DVD, WEBDVOF, and associated Aeronautical outputs effective on 15 December 2011. Questions and/or comments should be addressed through the Customer Quality Feedback at Classified E-Mail: Quality@nga.ic.gov or Unclassified E-Mail: Quality@nga.mil.

SPECIAL NOTICE-VERTICAL OBSTRUCTION UPDATES-SPECIAL NOTICE: Per Service agreement, effective 9 February 2012, NGA will no longer provide Vertical Obstruction updates through the Chart Updating Manual (CHUM) publication, the Electronic Chart Updating Manual (eCHUM) file, or CADRG obstruction updating for the DoD Operational Navigation Chart (ONC) series, the FAA Sectional chart (SE) series, or the FAA Visual Flight Rules (VFR) Charts.

The FEBRUARY 2012 CHUM SUPPLEMENT publication, the FEBRUARY 2012 eCHUM file, and the FEBRUARY 2012 CSD updates will be the final outputs to contain Vertical Obstruction updates for the ONC, SE, and VFR charts.

Vertical Obstructions applicable to these specific charts remain available through queries on the NGA WebDVOF websites:
NIPRNet: <https://dvof.geointel.nga.mil/index.cfm>
SIPRNet: <http://vvod.geoint.nga.smil.mil/>
JWICS: <http://vvod.geoint.nga.ic.gov/index.cfm>

The CHUM, eCHUM and CADRG Vertical Obstruction updates for all other DoD chart series are unaffected by this Service agreement.

Any comments or concerns regarding this matter should be submitted to Quality@NGA.mil

Aerospacial provides enhanced web technology enabling user to access multiple geospatial intelligence and aeronautical information databases and to "package" the information into user-specified formats.

With just a few clicks of a mouse, users have access to data from many NGA aeronautical products, crossing over the traditional lines of AAFIF, DAFIF, or FLIP.

Users can create either a large package of relevant data or a small and very specific package, all in PDF format. The final printing format can be customized to a 5" x 7" kneeboard size or a full page 8½" x 11" size.

Additionally, users can select intelligence and aeronautical information to display on Google Earth.

This current version of Aerospacial provides many significant improvements:

- Alternate airfields (both departure and destination) can be added in Upload Route PDFs
- Airfields and terminal procedures can be searched by state in addition to country.
- Helipad dimensions are listed in addition to runway dimensions.
- E-6B type tools are available to solve basic navigation problems.
- Additional information can be overlaid on Google Earth.

1. Get the “App” in Application Downloads
2. Download and Open the README and FAQ – these will tell you how to load the program and data through iTunes
3. Download the data
4. Load everything by following the instructions and you have got your FLIP collection

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NGA
NATIONAL GEOSPATIAL-INTelligence AGENCY
Know the Earth... Show the Way... Understand the World

NIPRNet

NGA > Aerospace

EFFECTIVE 08 MAR 2012 TO 04 APR 2012

Log In Upload Route Airfield Directory SmartChart Terminal Procedures Host Nation Procedures Downloads E-6B Tools User Options **Electronic Flight Bag** Effective Dates

► Electronic Flight Bag

Security Considerations
DoD Aeronautical Application (EFB) is for DoD use only. The data contained within is for DoD use only. Please comply with all DoD and local security considerations and regulations concerning the connecting of any device to the DoD network. Additionally, the data is for US persons only as per ITAR export control restrictions (22 CFR 120 - 130).

Data Downloads **Application Downloads**

Current Cycle


Click a link to download a file. EFFECTIVE 08 MAR 2012 TO 04 APR 2012

FAQ	(0.7 MB)	efb
README	(1.0 MB)	efb
agp-2012-03-08.zip	(120 MB)	
charts-2012-03-08.zip	(1032 MB)	
faa_charts-2012-03-08.zip	(524 MB)	
faa_terminals-2012-03-08.zip	(1069 MB)	
legends-2012-03-08.zip	(28 MB)	
MTR-2012-03-08.zip	(53 MB)	
planningdocs-2012-03-08.zip	(43 MB)	
supplements-2012-03-08.zip	(338 MB)	
terminals-2012-03-08.zip	(371 MB)	
xml-2012-03-08.zip	(12 MB)	

The rest of the NGA website has...

- Downloads for DAFIF and eCHUM
- PDFs of every FLIP one can imagine
- Charts and imagery for Falconview
- Talonview (Falconview Lite)
- Airfield data
- DVOF – eCHUM on crack
- Digital Nautical Charts – for all the USNA grads who want to drive boats and know where they are
- All sorts of other stuff to fill your Friday night dance card

Alternate path...


 **NGA**
NATIONAL GEOGRAPHIC INTELLIGENCE AGENCY

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


NIPRA

Aero Products:
AAPIF
CHUM
DAFIF
DVOF
eCHUM
Aerospatial Services
Electronic Flight Bag
FLIP
Late/Missing FLIP
Plan & Enroute
SAC
TAGGS
Terminal
FAQ

Aeronautical Products:



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




Chart Updating Manual (CHUM):
Hard copy CHUM semi-annual manual and supplement publications in compressed .pdf format. Enables customers the ability to keep charts current based on known aeronautical changes which have occurred since the original publication.




Digital Aeronautical Flight Information File (DAFIF™):
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(U) Consists of Airports, Heliports, Navigation Aids, Waypoints, ATS Routes, Airspaces Boundaries, Special Use Airspace, Military Training Routes, Parachute Jump Areas and Preferred Routes. DAFIF is used for flight planning and the programming of automated aircraft Flight Management Systems. The DAFIF product is presented on the website in its entirety. [Information](#)




Digital Vertical Obstruction File (DVOF):
Web server for storing, retrieving, and distributing data concerning known vertical obstructions worldwide.



Electronic Chart Updating Manual (ECHUM):
(U) ECHUM files contain a cumulative listing of uncharted obstructions 200 feet and higher. The ECHUM files are updated monthly. They contain a complete list of published charts for each chart series selected and a list of known corrections, if any, to each chart. Content
(U) The ECHUM, along with Flight Information Publications (FLIPs) and Notices to Airmen (NOTAMS) should be consulted by the chart user so as to be informed of all known chart discrepancies which could affect flight safety.
(U) All published and available charts within a given series are listed with appropriate Edition Number and Aeronautical Date. Only known chart discrepancies that meet the CHUM criteria and are received by NGA/PVAC on or before the cut-off date are loaded into the ECHUM files. These discrepancies are compiled from the best available source material. There is no intent to imply that each chart is systematically examined to identify all discrepancies which may affect flight safety.
[Information](#)




Electronic Flight Bag:
The DoD Aeronautical Application provides our DoD customers with the ability to view our suite of Flight Information Publication (FLIP), currently available on the FLIP DVD, as well as new digital only products such as our Airfield Qualification Program (AQP) on the Apple iPad. We will continue to improve the DoD Aeronautical Application increasing the capabilities as well supporting additional platforms such as Android and Windows.













Flight Information Publications (FLIP):
DoD Planning documents, enroute supplements, and terminal instrument procedures in PDF format. [Information](#)

Get the App and Data, Read the README and FAQ










 NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY Know the Earth... Show the Way... Understand the World NIP






Electronic Flight Bag Downloads

FLIGHT INFORMATION PUBLICATIONS (FLIP)

PLAN/SUP/CHARTS  TERMINAL  CANAD  DAFI  EFB  AQP  AEROSPATIAL SERVICE  ECHU  CHUM  DVDF 

NAVIGATION SUPPORT

AAFIF  SAC  TAGG  DTED  SRTM  JNC  ONC  TPC  JOG-A 

NSA SURVEY  AERO SURVEY  CONTACTS  MISSING FLIP  FCC FLIP Allowance CHS/ATM Letter  [Hide Notices](#)

Effective: 08 March 2012 thru 04 April 2012
Current Cycle: 1203

[Download The DoD Aeronautical Application - iOS beta](#)
(phsno-0_7_10b-DoD_enterprise.zip)

[DOWNLOAD THE README](#) (Instructions in PDF format)

Zip File Downloads

[AQP-2012-03-08](#)

[CHARTS-2012-03-08](#)

[FAA CHARTS-2012-03-08](#)

[FAA TERMINALS-2012-03-08](#)

[LEGENDS-2012-03-08](#)

[MTR-2012-03-08](#)

[PLANNINGDOCS-2012-03-08](#)

[SUPPLEMENTS-2012-03-08](#)

[TERMINALS-2012-03-08](#)

[XML-2012-03-08](#)

PDF Downloads

[APP FAQ](#)

[README](#)