



ICAO

UNITING AVIATION

ICAO GIS system presentation

By Gilbert Lasnier
Aeronautical GIS Officer



Overview of the ICAO GIS site

Type Of GIS services

Type of GIS API

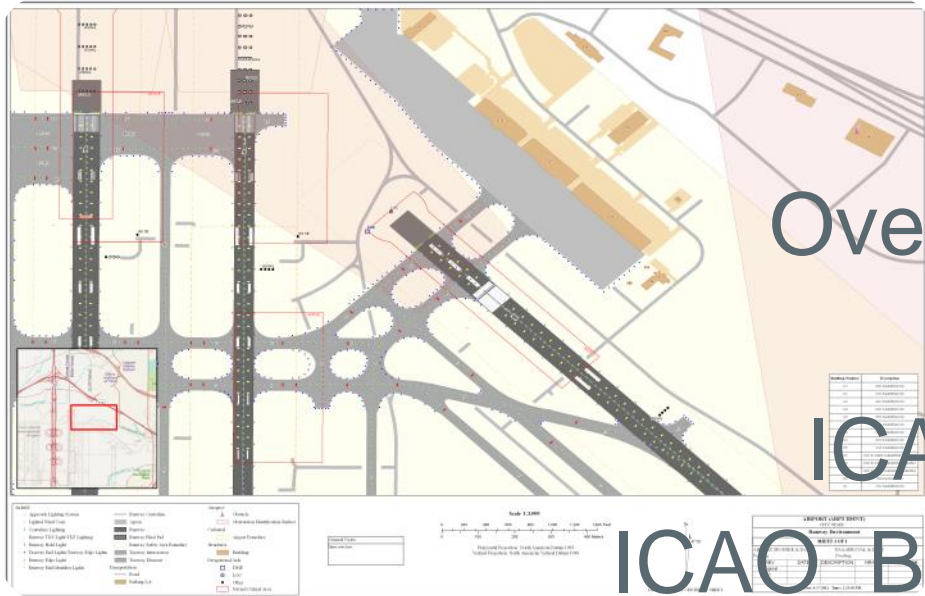
Overview of ArcGis Online

ICAO GIS Groups

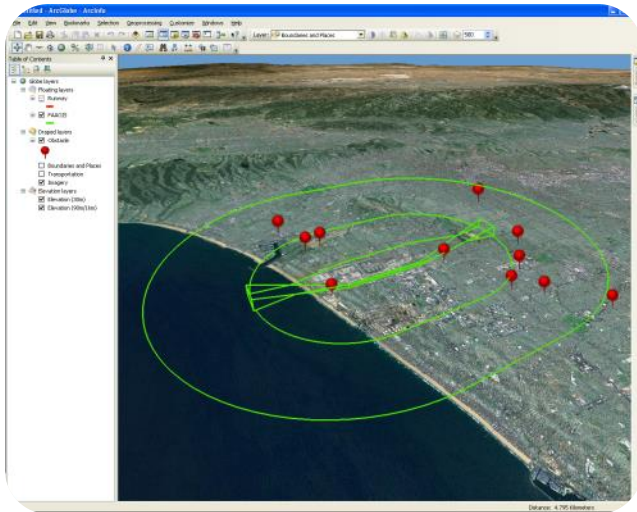
ICAO GIS server analyse

ICAO BIG data ESRI UC2014

Overview of Accidents with GIS



ICAO GIS site presentation



Old GIS servers to new
Old GIS services
to recent GIS services
Slides and live services

ICAO GIS system evolution

GIS Initialization and Implementation
MapGrafix
Mac platform
(departure from hand drawn charting)



Gilbert Lasnier
Magda Morawski

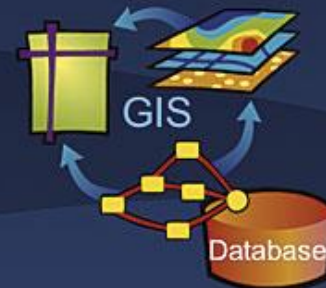
GIS Is Focused on **Integration**

*Tabular ICAO data
Web template*

Bringing Together Our
Complex Data and Knowledge



ICAO applications



*ICAO
Web Server*



... And Making It Accessible



ICAO

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Geography Network ICAO Web

Add Data from ICAO internet in:
ArcExplorer
ArcMAP
ArcCatalog
Map Info
Open GIS

ICAO GIS Portal

Global Air Navigation Plan

All green ✓ services are available at demo link:
<http://192.206.28.84/BoardingPass>

ICAO Extract data

Viewer HTML:

5LNC ✓

AOP ✓

CNS ✓

ATS ✓

FIR ✓

MET ✓

AIS

GIS tools

Forum

Map store

Data repository

Poster, GIS CD Rom
Thematic map, pdf, svg
Services souscription
Services GIS

Data exchange: shp, dbf, pmf,
geodata, metadata, layers

Other GIS services

Operational Data ✓

ICAO Gen map

STA ✓

AIG

ATB

ADREP

Doc 7100

ATM

AGA

Doc 9750

Bird

Doc 8585

Doc 7910

Doc 8643

Annex 4 ✓

ANP GIS services

SAR

<http://216.95.192.13/sarcontacts/>

Viewer JavaScript:

ICAO Map Creator

ICAO Live Meeting






ICAO Air Navigation Planning Portal > Home - Microsoft Internet Explorer

File Edit View Favorites Tools Help

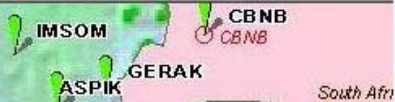
Back Forward Stop Search Favorites Media Print Mail News RSS Feeds

Address <http://anb-cart/eganp/> Go



ICAO GIS Portal

Global Air Navigation Plan




Home Support

Tuesday, June 27, 2006 ...: Home ... Register Login

GIS Google

GIS Google Earth

AOP *New*



GIS

- CNS Regional GIS - AFI
- SLNC GIS
- AOP GIS
- FIR GIS
- Global ATS & OPS GIS
- ATS Regional GIS - AFI
- ATS Regional GIS - EUR
- ATS Regional GIS - CARSAM
- ATS Regional GIS - MID

Welcome to the ICAO GIS Portal.


The Eleventh Air Navigation Conference (AN-Conf/11) recommended that ICAO develop database containing all tabular material from all the ICAO regional air navigation plans together with the major traffic flows and other regional data and make this database and associated charts available through the Web. The ICAO GIS Portal is a gateway incorporating the database and combining it with internet-based Geographic Information System (GIS) technology to allow authorised users to submit, store, update, manipulate, analyse, and chart global air navigation planning data from a centralised ICAO server.

Users are encouraged to register using the [Register](#) web link to benefit from the features offered by the portal.

Users are invited to send comments to the AISMAP team using the Feedback section of the portal.

Thank you, we appreciate your support.

The AISMAP team.



Announcements


Draft Report on ALLPIRG/5 - Thursday, April 13, 2006

A presentation of the ICAO GIS Portal and the ICAO Global Air Navigation Plan has been done during the ALLPIRG/5 meeting in Montreal on March 23rd, 2006.


Positive feedback was received from stakeholders present at the meeting. Please find below a link on the report of the ALLPIRG/5 meeting; Item 2.4 On-line searchable air navigation plan (ANP) database to support planning activities, including ICAO 5-letter name code

Data Editing


- SLNC Data Maintenance
- AOP Data Maintenance *New*
- ATS Data Maintenance
- FIR Data Maintenance



Contacts



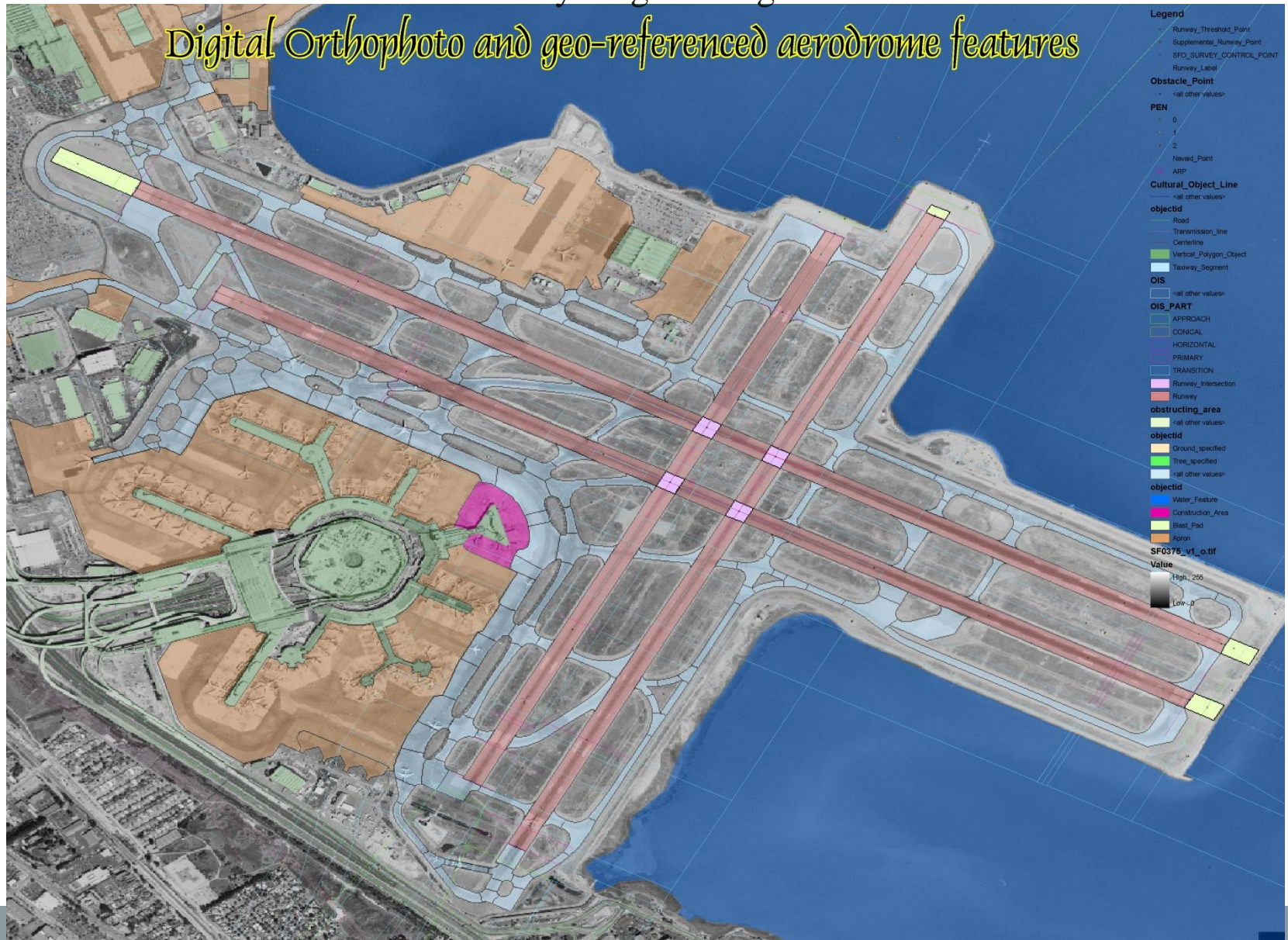
Feedback

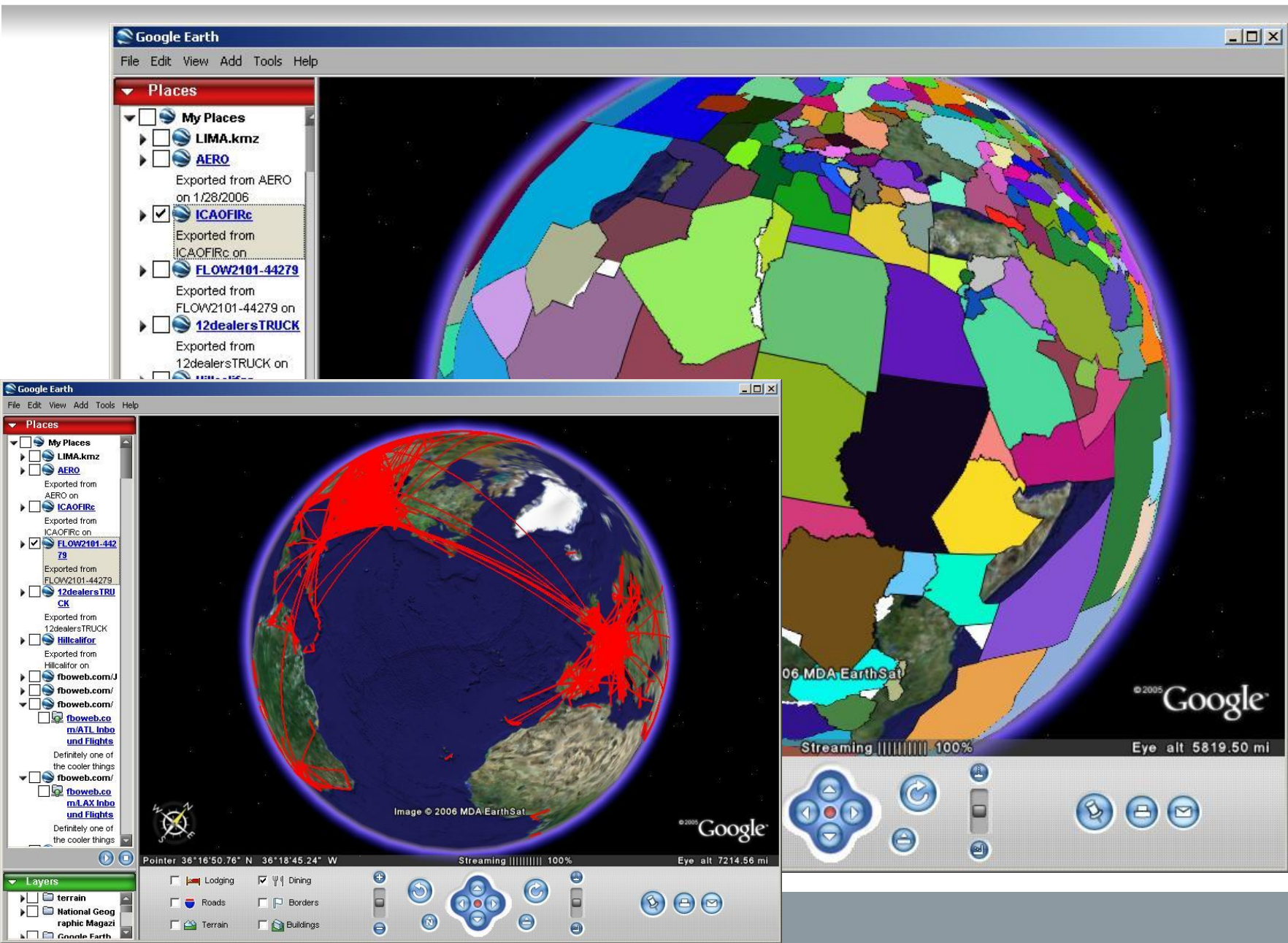


Local intranet

Information may range from global to local

Digital Orthophoto and geo-referenced aerodrome features







156 services personal account

ArcGIS

www.arcgis.com/home/search.html?q=icao&t=content

Google

ArcGIS FEATURES PLANS GALLERY MAP HELP Sign In icao

Search Results

Show 156 results

All Results

- Maps
- Layers
- Apps
- Tools
- Files

☐ Show ArcGIS Desktop Content

Related Searches

Find items published by Esri related to "icao"

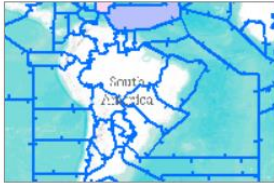
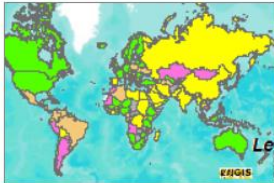

Find groups related to "icao"

More Information

What types of items can I find here?

Advanced search options

Finding layer packages and other ArcGIS desktop content.

	Relevance	Title	Owner	Rating	Views	Date
	(Optimized) ICAO 2014 FIR WORLD	ICAO FIR (Flight Information Region) WORLD latest update 2014	Web Map by glasnier			
		Last Modified: April 10, 2014		★★★★★	(0 ratings, 0 comments, 8,019 views)	
Open Details						
	ICAO 2014 LPR (Language Proficiency Requirements) and Questions	ICAO Language Proficiency Requirements (WORLD) and Questions	Web Map by glasnier			
		Last Modified: February 18, 2014		★★★★★	(0 ratings, 0 comments, 10,566 views)	
Open Details						
	ICAO GIS Public Maps Gallery	ICAO GIS Public Maps Gallery, ICAO GIS Portal (Created sept 2012)	Web Mapping Application by glasnier			
		Last Modified: February 7, 2014		★★★★★	(0 ratings, 0 comments, 356 views)	

[ARCGIS ICAO LINK](#)

4 services Organization account

[icoa.maps.arcgis.com/home/gallery.html#c=organization&o=numviews](#)
WEBGL EARTH

Gallery

My Favorites My Organization's Featured Content Esri Featured Content

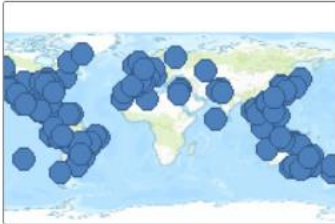
International Civil Aviation GIS services Featured Content

Sort By: Most Viewed


Show

- All
- Maps
- Layers
- Apps
- Tools
- Files


[Search the website](#) or visit the [ArcGIS Marketplace](#)




Intersect of JEPDUP_4_time (3) and FIR WORLD




(Optimized) ICAO 2014 FIR WORLD




ICAO 2014 LPR (Language Proficiency)



2014 ICAO WORLD SUAS and ATS



ICAO ICARD 5LNC 2013 direct link



Hot Spots Number



Perform Analysis services in Organization

icaeo.maps.arcgis.com/home/webmap/viewer.html?webmap=4af5411b334941ec8b441f74c9e2f896

HOME ICAO ICARD 5LNC 2013 direct link NEW MAP CREATE PRESENTATION Gilbert

Details Add Basemap Share Directions Measure Bookmarks Find address or place

Contents

- ☒ Aggregation of Intersect of JEPDUP 4 time (3) and FIR ICAO to ICAO region ANP 2014
- ☒ Intersect of JEPDUP 4 time (3) and FIR ICAO
- ☒ ICARD5LNC
 - ☐ ICARD 5LNC enroute
 - ☐ UPP Routes op 2014
 - ☐ LOW Routes op 2014
 - ☐ JEPPESEN DUP Group Layer
 - ☒ Base Layers
 - ☐ RegOffice
 - ☐ FIR ICAO
 - ☐ ICAO 5LNC region
 - ☒ ICAO region ANP 2014
 - ☐ ICAO region Base 2014

Map Tools: Zoom to, Transparency, Set Visibility Range, Move up, Move down, Rename, Remove, Copy, Hide in Legend, Remove Pop-up, Configure Pop-up, Change Symbols, Create Labels, Perform Analysis, Show Table, Filter, Refresh Interval, Show Item Details, Save Layer

Aggregation of Intersect of JEPDUP_4_time (3) and FIR ICAO

Count of points	15
Join Id	9
Id	0
Firname	
Region	CAR
Kind	ANP
Upper	
Lower	
Ulc	
Icao code	
Resp	

Zoom to Get Directions Show Related Records

Esri.com ArcGIS Marketplace

00 1000mi

POWERED BY



Perform Analysis services in Organization

icaomaps.arcgis.com/home/webmap/viewer.html?webmap=4af5411b334941ec8b441f74c9e2f896

HOME ICAO ICARD 5LNC 2013 direct link NEW MAP CREATE PRESENTATION Gilbert

Details Add Basemap Share Directions Measure Bookmarks Find address or place

Perform Analysis

- Summarize Data
 - Aggregate Points
 - Summarize Nearby
 - Summarize Within
- Find Locations
 - Find Existing Locations
 - Derive New Locations
 - Find Similar Locations
- Analyze Patterns
 - Calculate Density
 - Find Hot Spots
 - Interpolate Points
- Data Enrichment
 - Enrich Layer
- Use Proximity
 - Create Buffers
 - Create Drive-Time Areas
 - Find Nearest
 - Plan Routes
- Manage Data
 - Dissolve Boundaries
 - Extract Data
 - Merge Layers
 - Overlay Layers

Aggregation of Intersect of JEPDUP_4_time (3) and FIR ICAO

Count of points	15
Join Id	9
Id	0
name	ne
n	n
CAR	
AND	

Map showing FIR ICAO regions (NAM, EUR) and JEPDUP_4_time (3) data points (blue dots). Locations like Chicago, Los Angeles, Madrid, and Algiers are labeled.



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PM ICAO Public Maps

gis.icao.int/gallery/

Google

Public Maps

ICAO

Carousel

IPAD-only

Explain IPAD

Uniting Aviation on
Safety | Security | Environment



Select Language

Dear ICAO GIS User, ICAO Upcoming Meeting & Events

I wanted to make you aware that ICAO Upcoming Meeting & Events schedule. Also the ICAO GIS server has some problem of capacities, I think we have too much services (112) and customers 400,000 hits by month for the number of CORE we have, so it's possible that we must restart periodically the server (restart ArcGIS Application Pool to correct the situation), reduce the number of services to 40, optimization of a lot of parameter. We are presently also in the same time making the migration from ArcGIS 10 to 10.2. Many thanks for your comprehension.

If the server is down, please send me an email
glasnier@icao.int

New GIS services for FIR

ICAO 2014 FIR (Flight Information Region)

[ICAO Official FIR site](#)

[Buy ICAO Official FIR shape file](#)

[ICAO FIR Edit site \(ICAO PORTAL password\)](#)



FIR silverlight 3.2



FIR all device



FIR Flash



[ICAO GIS SITE](#)

Buy ICAO FIR data

New GIS Viewer Ipad
(all device) Identify
Function 2014 DATA



Print
and
Save as
PDF
JPG
GIF
EPS

ICAO JavaScript BaseMap with
World FIR, ATS Route, SSR
PSR Radar, SAR and
Aerodrome (all with Identify)

Download JavaScript
template from David
Spriggs

Download EANP

Embed ICAO services

Edit Secure ICAO GIS
services

ICAO Portal (Other
Interface)



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PM ICAO Public Maps x +


gis.icao.int/gallery/


Google


New GIS services for FIR
ICAO 2014 FIR (Flight Information Region)
ICAO Official FIR site
Buy ICAO Official FIR shape file
ICAO FIR Edit site (ICAO PORTAL password)



FIR silverlight 3.2


FIR all device


FIR Flash


FIR dropdown js


FIR javascript


Drag and Drop tool

Download JavaScript template from David Spriggs

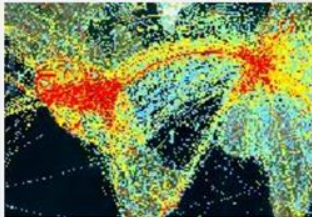
Download EANP

Embed ICAO services

Edit Secure ICAO GIS services

ICAO Portal (Other Interface)


Best Traffic Flow Viewer (Dual Query)





SilverLight Interface for Traffic Flow 2012 (Dual Query Origin and Nb of Flights, export data, print and more)

More ICAO

GIS services for ATFM
ICAO ATFM STATUS: level of implementation of Air Traffic Flow Management
ICAO ATFM site


ICAO ATFM 4 Maps


ATFM all device


ATFM silverlight

GIS services for LPR
ICAO 2014 LPR (Language Proficiency Requirements)
ICAO Official LPR site



ICAO

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PM ICAO Public Maps

gis.icao.int/gallery/

Google

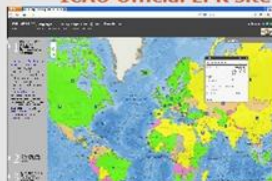
GIS services for LPR

ICAO 2014 LPR (Language Proficiency Requirements)

ICAO Official LPR site



LPR silverlight



LPR Accordion



LPR all device

GIS services for Doc 7910

Doc 7910 direct SQL link

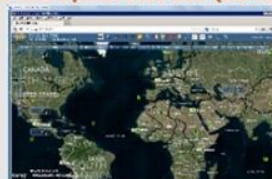
ICAO Doc 7910 subscription or buy

ICAO DOC7910 sharepoint site (ICAO PORTAL password)

ICAO DOC7910 sharepoint Edit site (ICAO PORTAL password)



Doc 7910 javascript



Doc 7910 flash



Doc 7910 arcgis.com

GIS services for SCAN

ICAO Safety Collaboration Network (SCAN) Projects

ICAO Official SCAN site



print and more)

More ICAO

Links

ICAO FIR MAP

List of AIPs online

ICAO ArcGIS.com Group

Esri Airports GIS Package

ISTARS

ICAO Online Store

Map ICAO LPR

Gis Site to Create

(Example)

5 march 2014 start

14,446 Visits



24h visits

top: 11 total: 96





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PM ICAO Public Maps

gis.icao.int/gallery/

Google

SCAN silverlight

SCAN all device

API Group silverlight

GIS services for ePassport

ePassport issuing States Participants in Public Key Directory with flags

ICAO Public Key Directory(PKD) site



ICAO ePassport 5 Maps



ePass all device



ePassport arcgis.com

New GIS Viewer OSM Ipad (all device) Identify Function 2014 DATA



ICAO JavaScript BaseMap with World FIR, ATS Route, SSR PSR Radar and SAR

GIS services for AIS/AIM

AIS/AIM global report for WGS-84 P05, QUALITY P17, AIRAC P03

ICAO Global report site



WGS-84 silverlight



QUALITY silverlight



AIRAC silverlight

GIS services for MET/VAAC/Volcano

ICAO MET/VAAC/Volcano

ICAO MET site



VOLCANO java script

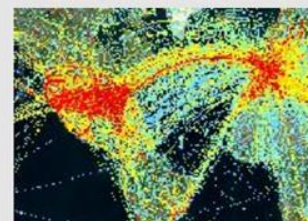


VOLCANO flash



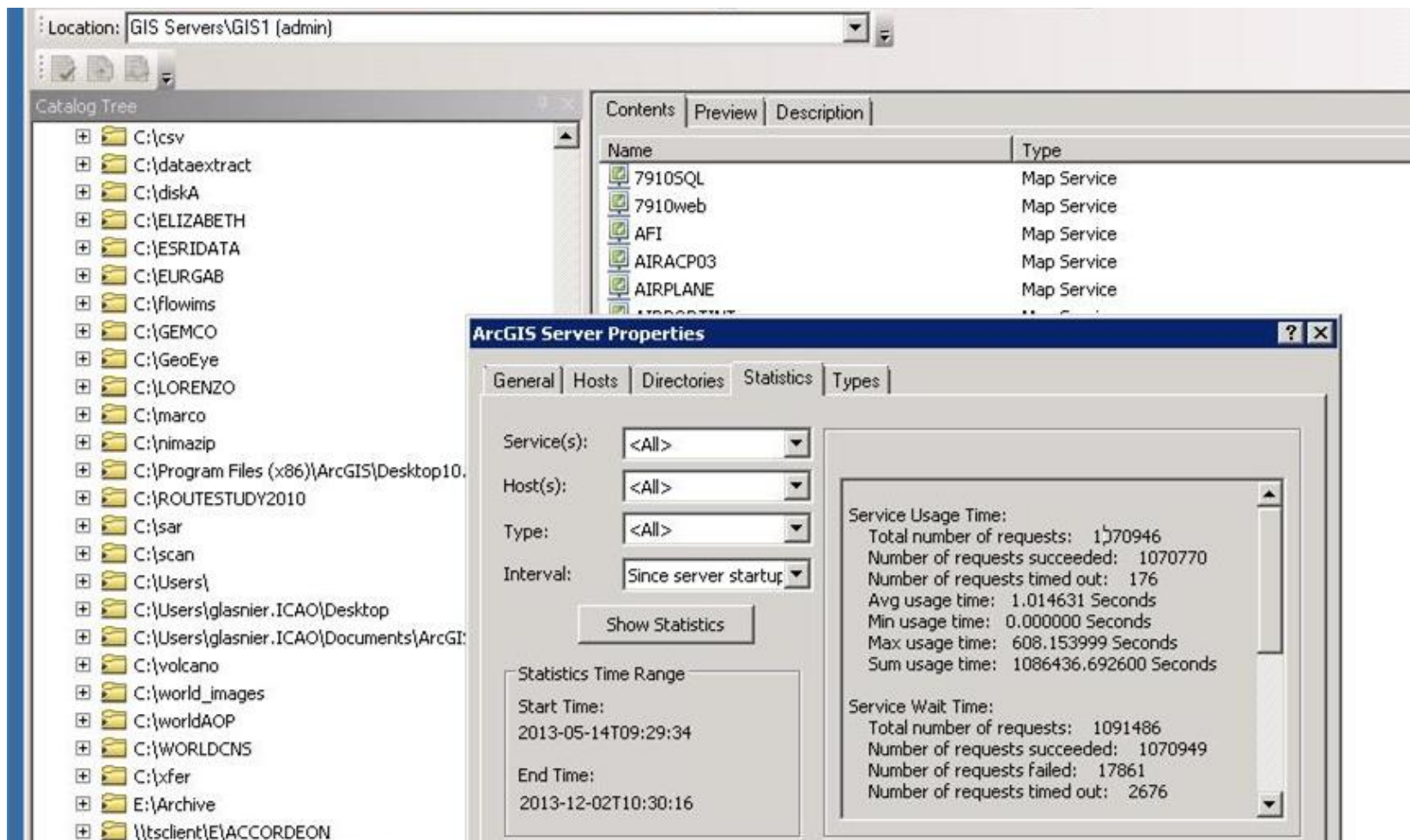
VOLCANO arcgis.com

Best Traffic Flow Viewer



SilverLight Interface for Traffic Flow 2012 (selection, print and more)

ICAO GIS system number of requests for 7 months: 1,070,946



The screenshot displays the ArcGIS Server Properties dialog box, specifically the Statistics tab. The background shows the ArcGIS Server Catalog Tree with various folders and services. The main focus is on the 7910SQL service, which is a Map Service.

ArcGIS Server Properties - Statistics Tab

Service(s): <All>
Host(s): <All>
Type: <All>
Interval: Since server startup

Statistics Time Range

Start Time: 2013-05-14T09:29:34
End Time: 2013-12-02T10:30:16

Service Usage Time:

- Total number of requests: 1,070,946
- Number of requests succeeded: 1,070,770
- Number of requests timed out: 176
- Avg usage time: 1.014631 Seconds
- Min usage time: 0.000000 Seconds
- Max usage time: 608.153999 Seconds
- Sum usage time: 1086436.692600 Seconds

Service Wait Time:

- Total number of requests: 1091486
- Number of requests succeeded: 1,070,949
- Number of requests failed: 17861
- Number of requests timed out: 2676

GIS services properties

Map services
Feature services
Mobile Data Access
WMS
KML, WFS, WCS
Network Analysis
Demo

ArcGIS Server - Map Service Properties

General Parameters Capabilities Pooling Processes Caching

☒ Mapping (always enabled)
☐ Feature Access
☐ Mobile Data Access
☒ WMS
☒ KML
☐ Network Analysis
☒ WFS
☐ WCS

☒ Enable Web Access

URL:

Operations allowed:

☒ Map ☒ Query ☐ Data

Properties

<There are no properties for this capability>



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ArcGIS Viewer for Silverlight

gis.icao.int/appsilver/WGS84P05/

AIS to AIM - Consolidation Phase P-05 WGS-84 implementation

Map Contents

- ☒ P-05 WGS84 Implementation

Kenya

OBJECTID: 111

REG OFFICE: NAIROBI

REGION: AFI

ICAO STATE: Kenya

P05 STATUS: Compliant

REMARKS_1: Unknown

IMPLEN BY: Partially Compliant

DATE: Compliant

Not Compliant

Attributes of P-05 WGS84 implementation

OBJECTID	REG OFFICE	REGION	ICAO STATE	P05 STATUS	REMARKS
107	DAKAR	AFI	Equatorial Guinea	Compliant	
108	DAKAR	AFI	Congo	Compliant	
109	NAIROBI	AFI	Uganda	Partially Compliant	
110	LIMA	CARSAM	Ecuador	Compliant	
111	NAIROBI	AFI	Kenya	Compliant	http://gis.icao.int/egandp/kenyawgs84.JPG

Record: << < 1 > >> Records (0 out of 232 Selected) Options Commit

1792 x 1010px Size: 524.7KB 100%

[WGS84 EDIT SITE](#)



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Pages - Encode and Decod... x +

https://portal.icao.int/space/eanp/AFS/Pages/AFS_view.aspx

Google

Site Actions Browse Page Publish

Lasnier, Gilbert

DOC7910 Edition 153

SEARCH BY STATE

Canada

SEARCH BY KEYWORD

SEARCH BY ICAO CODE

Show 10 entries

Search:

Show MAP	ICAO Code	Location Name	IATA Code	FIR	Use	Loc. Ind. Type
	CYXX	ABBOTSFORD, BC	YXX	FIR VANCOUVER	CIV	AD
	CYKD*	AKLAVIK/FREDDIE CARMICHAEL, NT	LAK	FIR EDMONTON	CIV	AD
	CYKO*	AKULIVIK, QC	AKV	FIR MONTREAL	CIV	AD
	CYAL	ALERT BAY, BC	YAL	FIR VANCOUVER	CIV	AD

State Name: CANADA Coordinate: -126.9155556, 50.5822222

ICAO Doc 7910
Direct SQL link (click on the pink symbol)

Doc7910 web site

More... Aerial Delorme None Physical Terrain BING Aerial with labels BING Road BING Aerial Navig Charts National Geographic Streets light Gray Base Topo

Queen Charlotte Strait

Malcolm Island

1792 x 1010px Size: 524.7KB

100%



ICAO

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Pages - Encode and Decod... x +

https://portal.icao.int/space/ealp/AFS/Pages/AFS_view.aspx

Google



Site Actions Browse Page Publish

Lasnier, Gilbert



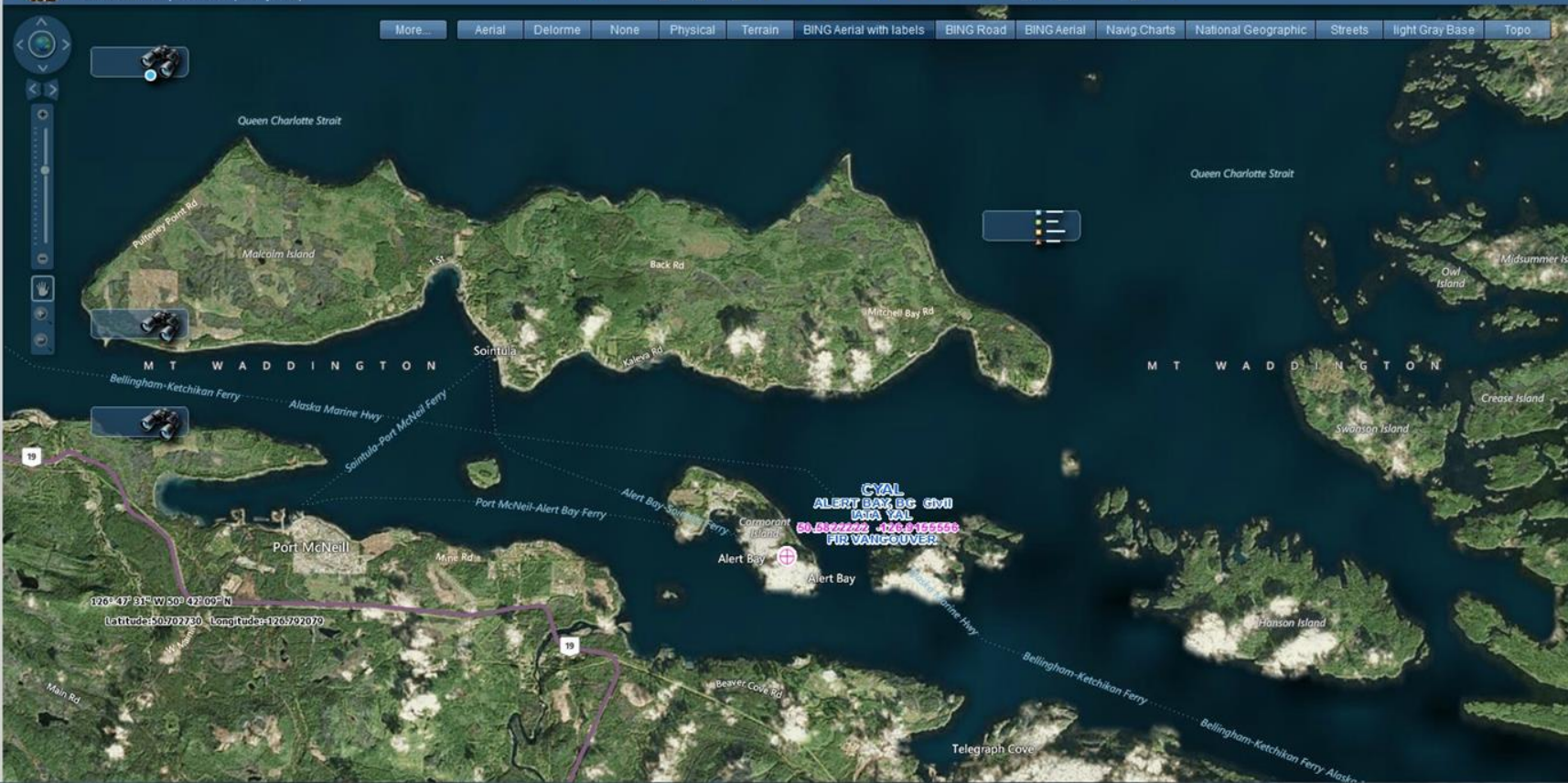
ICAO Doc 7910

Direct SQL link (click on the pink symbol)

Doc7910 web site



More... Aerial Delorme None Physical Terrain BING Aerial with labels BING Road BING Aerial Navig Charts National Geographic Streets light Gray Base Topo



126° 47' 31" W 50° 42' 09" N
Latitude: 50.702730 Longitude: 126.792070

1792 x 1010px

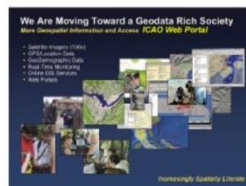
Size: 524.7KB

100%

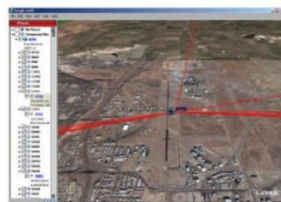


ICAO GIS Portal

Global Air Navigation Plan



WEB Viewer

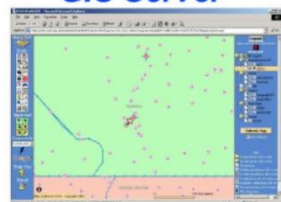


**WEB-based
ANP tables
Editor
Reports
Amendments**

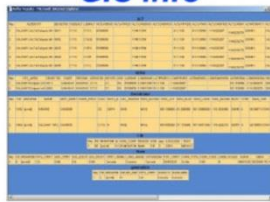
Region	Country	City	ICAO Code	ICAO Name	ICAO Type	ICAO Status	ICAO Date	ICAO Description
North America	USA	New York	KJFK	John F. Kennedy International Airport	Large Hub	Active	1945	Large Hub
North America	USA	Los Angeles	LAX	Los Angeles International Airport	Large Hub	Active	1948	Large Hub
North America	USA	Chicago	MDW	Chicago Midway International Airport	Large Hub	Active	1941	Large Hub
North America	USA	San Francisco	SFO	San Francisco International Airport	Large Hub	Active	1946	Large Hub
North America	USA	Seattle	SEA	Seattle-Tacoma International Airport	Large Hub	Active	1947	Large Hub
North America	USA	Portland	PDX	Portland International Airport	Large Hub	Active	1948	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1949	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1950	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1951	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1952	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1953	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1954	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1955	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1956	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1957	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1958	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1959	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1960	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1961	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1962	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1963	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1964	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1965	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1966	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1967	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1968	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1969	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1970	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1971	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1972	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1973	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1974	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1975	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1976	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1977	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1978	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1979	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1980	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1981	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1982	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1983	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1984	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1985	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1986	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1987	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1988	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1989	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1990	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1991	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1992	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1993	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1994	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1995	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1996	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	1997	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	1998	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	1999	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2000	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2001	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2002	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2003	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2004	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2005	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2006	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2007	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2008	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2009	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2010	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2011	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2012	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2013	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2014	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2015	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2016	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2017	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2018	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2019	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2020	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2021	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2022	Large Hub
North America	USA	San Antonio	SAT	San Antonio International Airport	Large Hub	Active	2023	Large Hub
North America	USA	San Jose	SJC	San Jose International Airport	Large Hub	Active	2024	Large Hub
North America	USA	San Diego	SDS	San Diego International Airport	Large Hub	Active	2025	Large Hub

**ANP Tools
supported
by GIS and
WEB print service**

GIS Server



GIS Info



GIS Link





ICAO

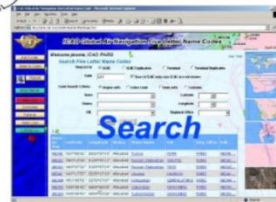
UNITING AVIATION



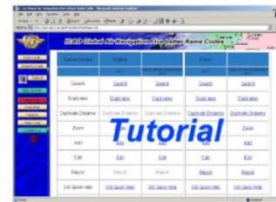
ICAO 5LNC



New user



Search



Tutorial



Add code

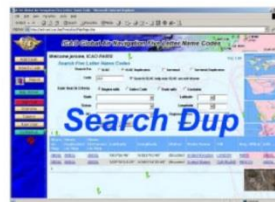


Modify

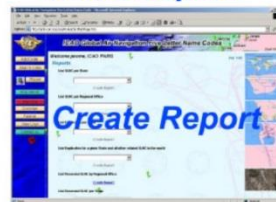


Dup

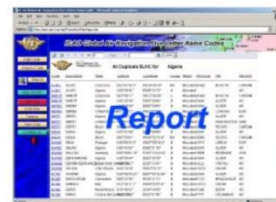
5LNC Report



Search Dup



Create Report



Report

Help GIS



5LNC Dup resolution



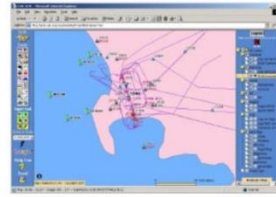
Dup GIS



GIS Server



GIS zoom



GIS Link



Type of GIS API

Dot net

Flash flex viewer

Silverlight viewer

SharePoint viewer

JavaScript html5

Google api

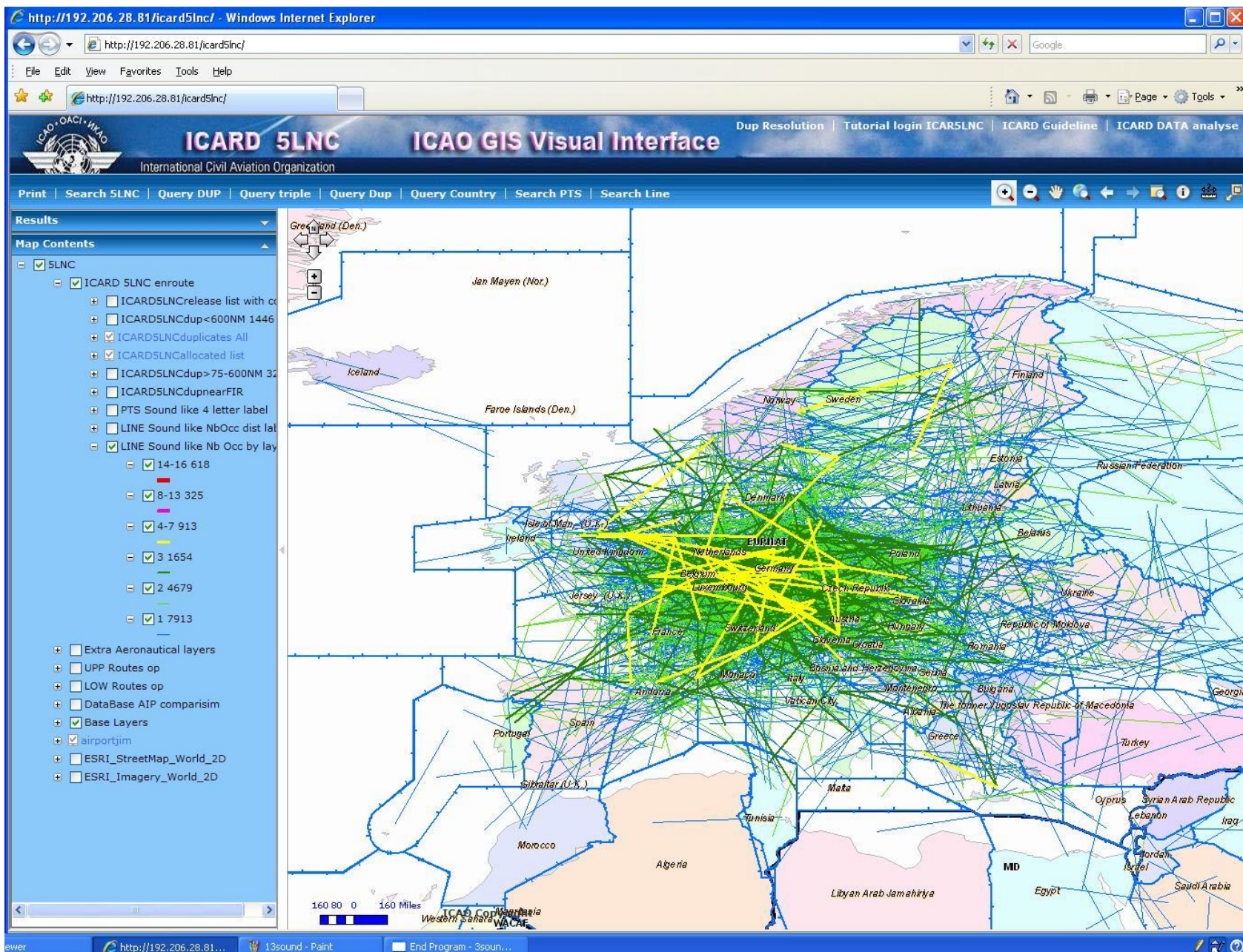
Open source api : D3 and etc...

Demo Live



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Safety Intelligent Metric Concept (SIMC)

ESRI | ESRI Support Center | Help

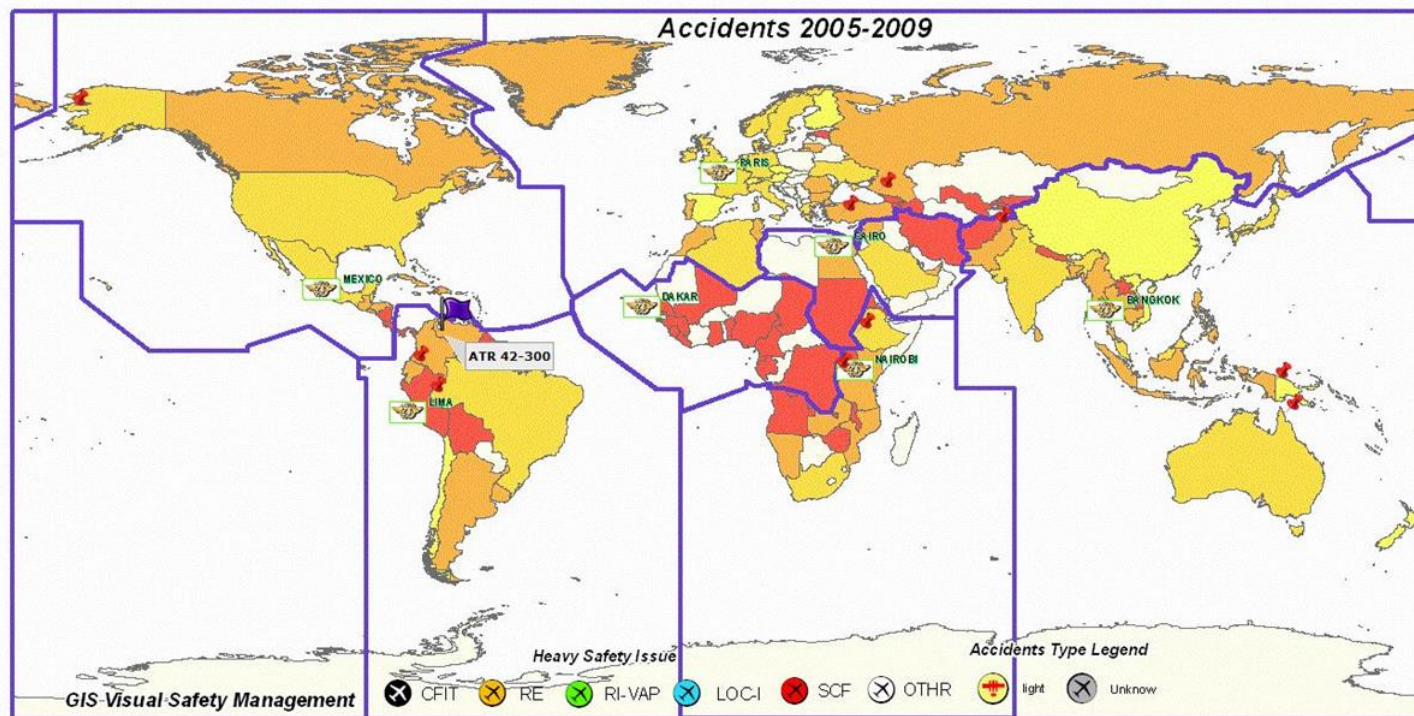
Print | Query Accident by State | Query Accid by Phase | Query ICAO Region | Query by Safety Issue | Query Occurrence categories

Results

- ☒ Query by Safety Issue (11)
 - ☒ 419complet (11)
 - ☒ 737-200
 - ☒ SA227 III
 - ☒ 1900
 - ☒ DHC6-300
 - ☒ PA-31P-350 (MOJAVE)
 - ☒ 208 CARAVAN I
 - ☒ 737-200
 - ☒ ATR 42-300
 - ☒ 737-200
 - ☒ A320
 - ☒ MD 83

Map Contents

- ☒ SAST
 - ☐ Accident Heavy
 - ☐ Light Aircraft
 - ☐ Unknown Aircraft
 - ☐ Statistic by Region
 - ☒ BLUE box
 - ☒ RED box
 - ☒ Extra Aeronautical layers
 - ☒ Aerodrome
 - ☒ FIR ICAO
 - ☒ Runwaywgs
 - ☒ WorldTERM
 - ☒ Region & States



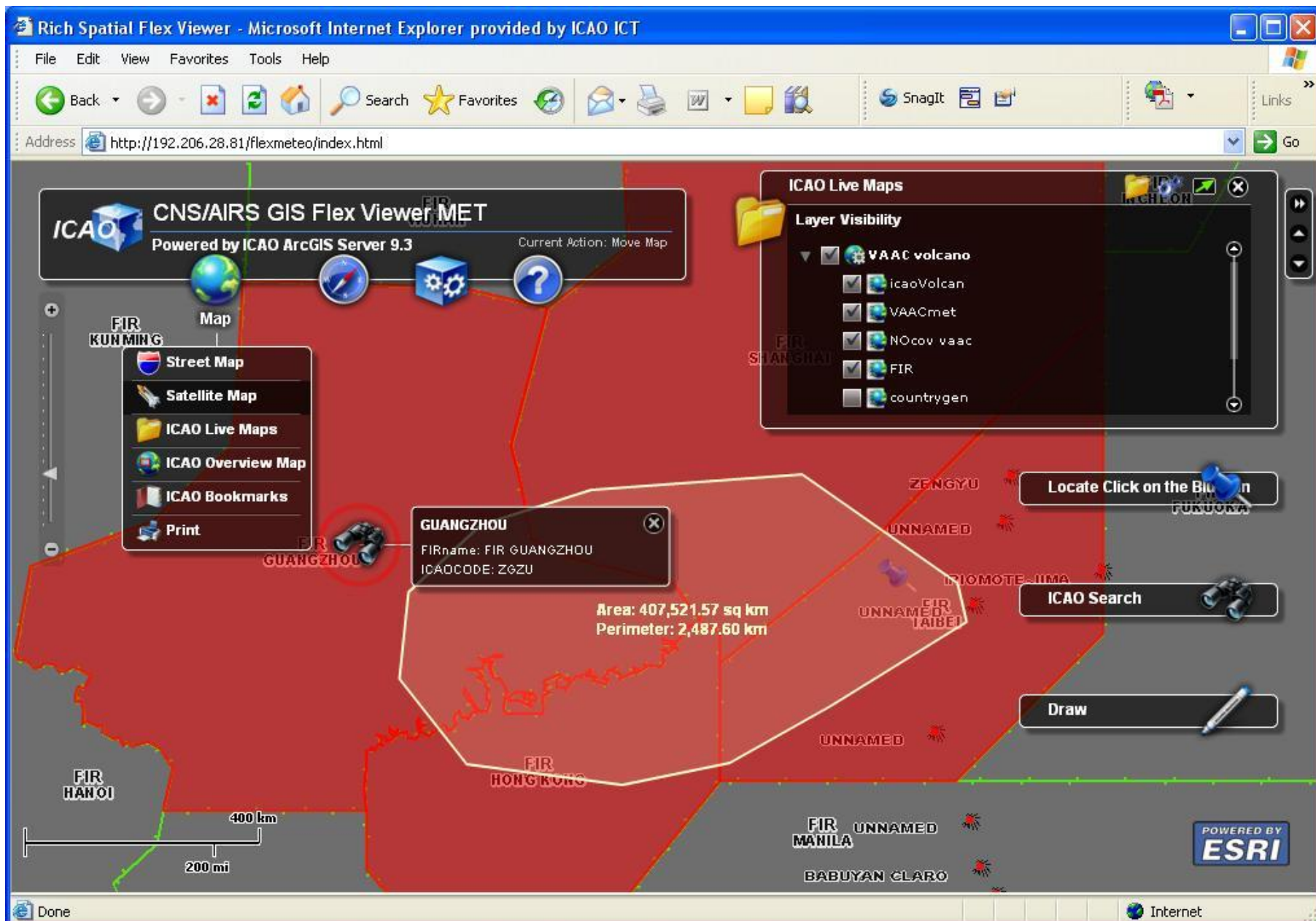
72362.50 725 Miles

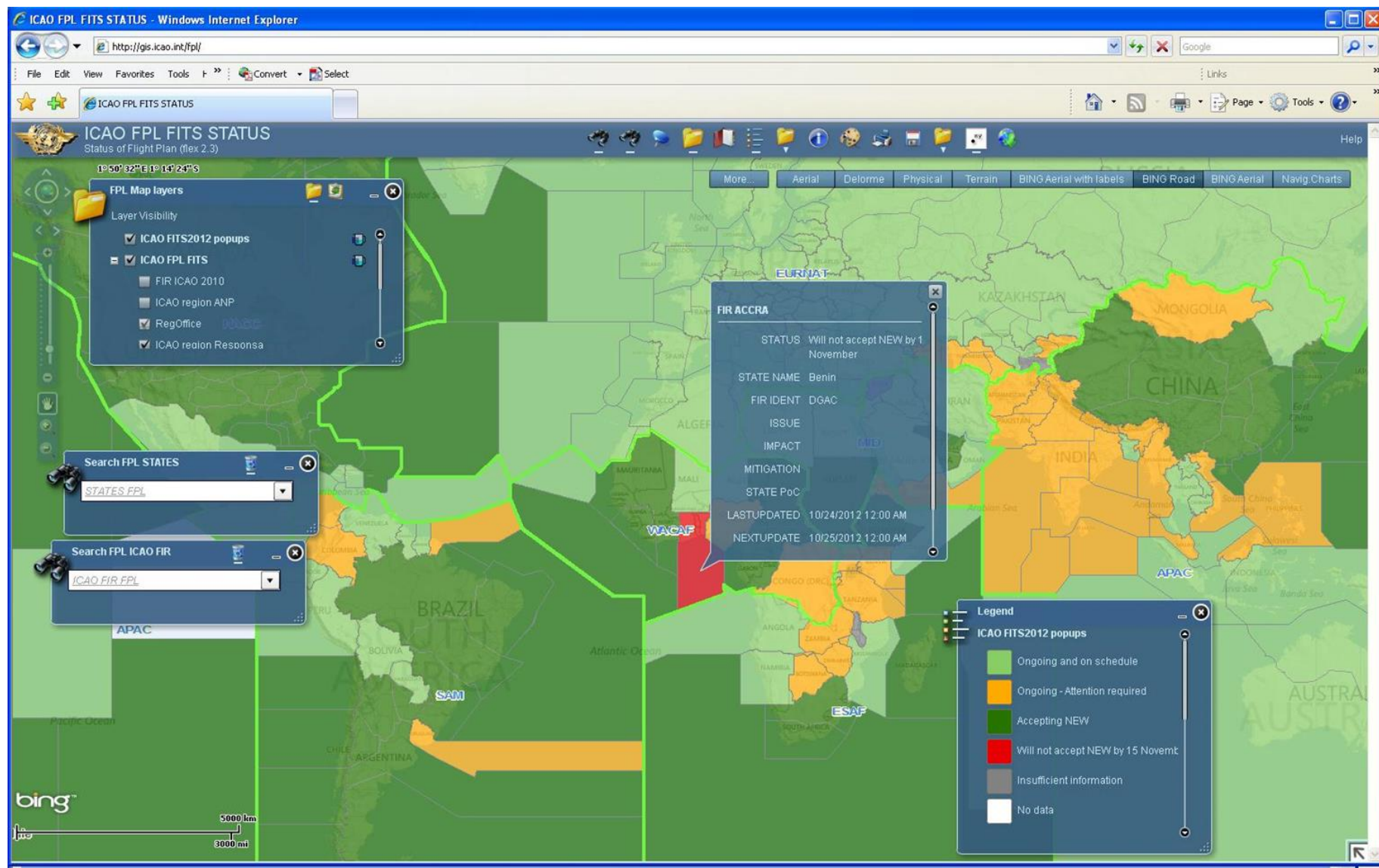
ICAO Copyright



ICAO

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English Français Español AR Chinese RU

Lasnier, Gilbert

ArcGIS Map Web Part

Site Actions ▾ | Browse | Page | Application | Layer | Symbols

Remove Rename | Draw Order: | Bring Forward | Send Backward | Organize

Transparency | Pop-Ups | Table | Filter | Refresh | Table | Go To | Service Details | Select All | Clear | Select | Zoom To | Export | Find Nearby

Configure | View | Selection

ArcGIS Map web Part

Map Contents

- ☒ FIR ICAO 2010
- ☐
- ☒ scandeux.All Items
- ☒ EDITOR_LPR
- Streets

Export

Export the attributes of the selected features in the current layer to a CSV file

Attributes of FIR ICAO 2010

FID_1	Id	NOM_COMP	REGION	KIND	ICAOCODE	RESP	FIRname	HISTORIC	REMARKS
193	197	GANDER OCEANIC	NAT	FIR	CZQX	PARIS	FIR GANDER OCEANIC		
190	194	GANDER OCEANIC	NAT	FIR	CZQX	PARIS	FIR GANDER OCEANIC		Above FL 195 area covered by FIR GAI
191	195	REYKJAVIK	NAT	FIR	BIRD	PARIS	FIR REYKJAVIK		
192	196	SONDRESTROM	NAT	FIR	BGGL	PARIS	FIR SONDRESTROM		

Record: << < 3 > >> Records (30 out of 314 Selected) Options Commit

AlphaMosaik SharePoint Oceanik 2010 V 5.2.72.0 - DEV edition unauthorized use in Production - www.oceanik.com



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ArcGIS Viewer for Silverlight

gis.icao.int/appsilver/LPRQUESTION/

ICAO 2014 LPR (Language Proficiency Requirement) and Questions

Help | Forums | Blog

Map Contents

- ☒ LPR Questions
- ☒ Language LPR
- ☐ SCAN project Viewer

Canada

QUESTION	Do Canadian pilots and ATCs undergo the LPR test outlined by ICAO? Is Air Canada doing their own test?
WHO	Training Provider
TRAINING	1
TESTING	1
Licensing/Endorsement	1
TEACHING	
REGION	North America

Attributes of Language LPR

REGOFF1	REGION	ICAOSYS	COMPLIANCE	LINKPDF	LINKPDF2	DATE RECEIVED	IMPLEM_BY
PARIS	EUR	Lithuania	Compliant	http://gis.icao.int/LPR/Lithuania_en.pdf		3/1/2011 7:00:00 PM	
PARIS	EUR	Belarus	Compliant	http://gis.icao.int/LPR/Belarus_en.pdf		2/14/2011 7:00:00 PM	
MEXICO	NAM	Canada	Compliant	http://gis.icao.int/LPR/Canada_en.pdf		3/17/2011 8:00:00 PM	

Record: << < 1 > >> Records (0 out of 159 Selected) Options Commit

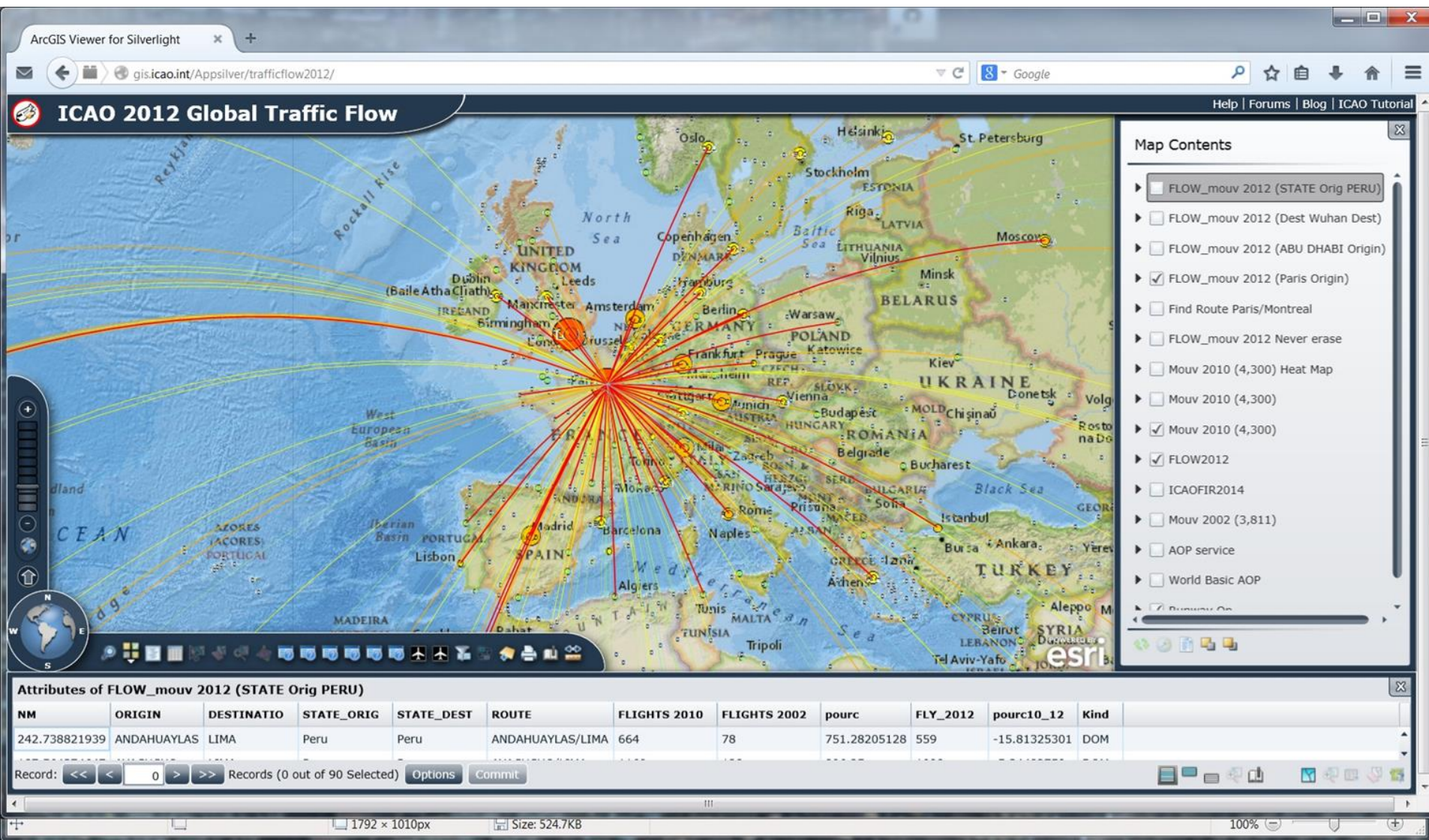
1792 x 1010px Size: 524.7KB 100%

[LPR EDIT SITE](#)



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[TRAFFIC FLOW SITE](http://gis.icao.int/Appsilver/trafficflow2012/)



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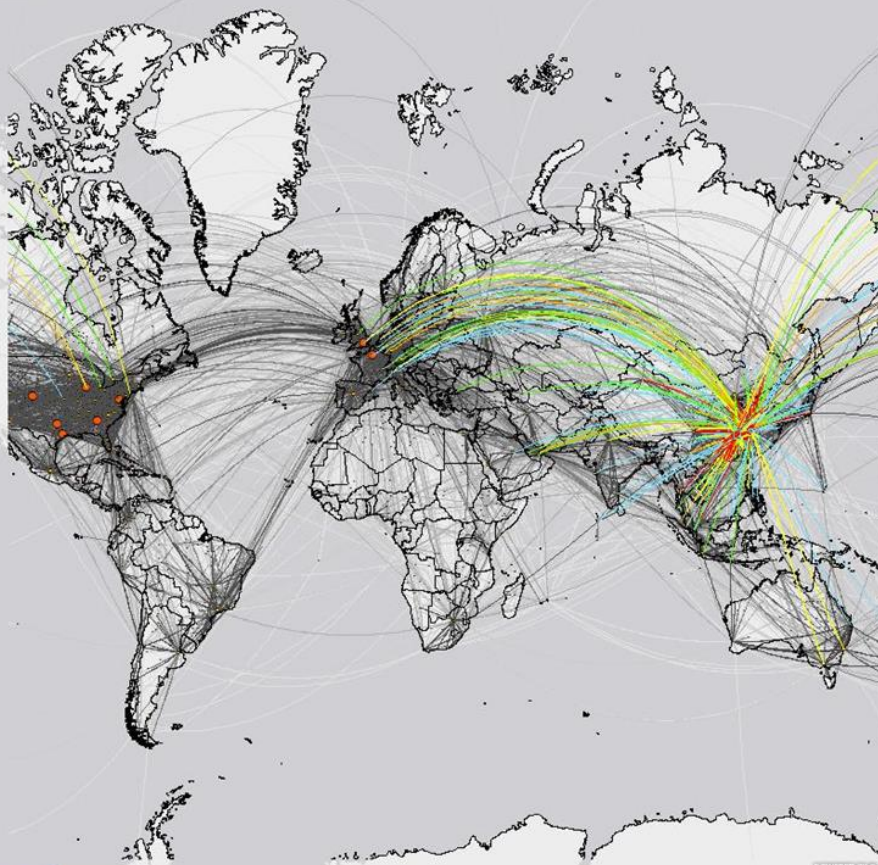
Forecast of H7N9 Propagation according to World Traffic Flows 2010 by City Pair (International and Do...

Zoom Drag and Click on line for more Info!
change in each Region?

Major Routes in Red, Orange, Yellow, Green, Blue. How do Traffic Flow

Forecast of H7N9 by Traffic flows First wave

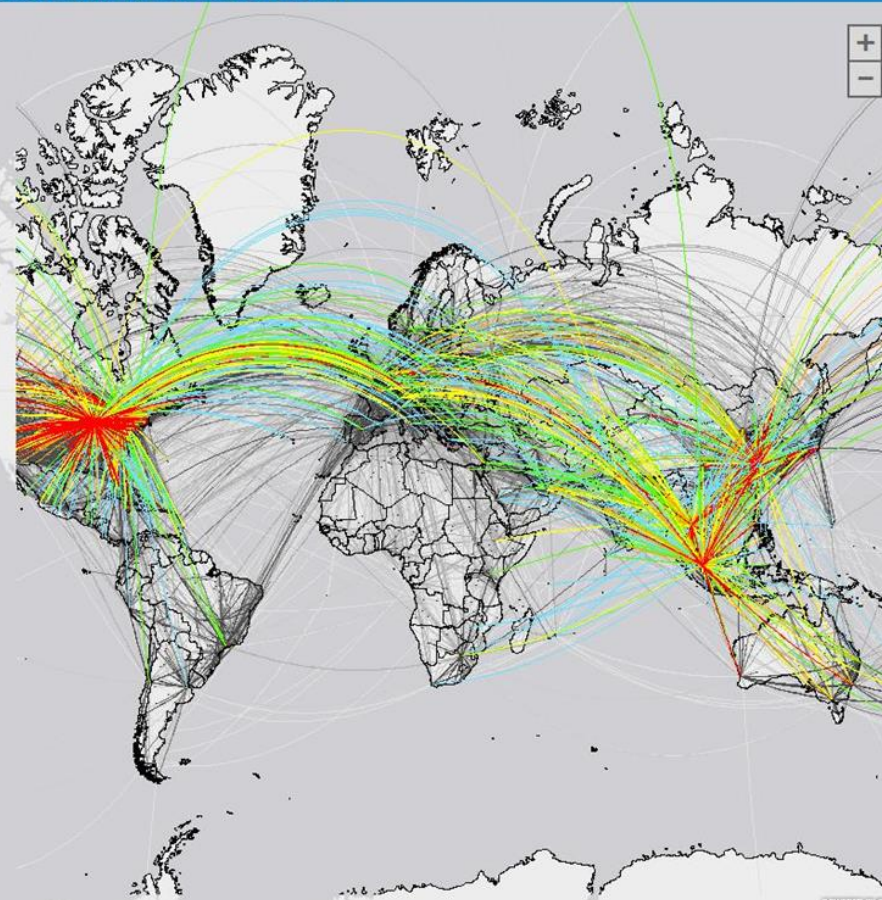
Legend ▼



Description ▼

Prototype for Forecast of H7N9 by Traffic flows First wave

Forecast of H7N9 by Traffic flows Second wave



Prototype for Forecast of H7N9 by Traffic flows Second wave (partial)

Done

Internet

100%



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ICAO Viewer: Air flight path Ro... x +

gis.icao.int/icaoviewer2/ Google

ICAO GIS platform (run on all devices)
Air flight path Routes, FIR, Radar Coverage, Search and Rescue, Aerodrome, Natural Hazards, Edit Pts, Line, Polygon

Enter an address or place

GIS Help

Basemaps

Legend:

- ☐ **GVP Volcanoes**
- ☐ **ICAO Volcanoes VAAC**
- ☐ **Earthquakes**
- ☐ **Hurricane Active**
- ☒ **Natural Hazards**
- ☒ **Floods**
 - Major
 - Moderate
 - Minor
- ☒ **U.S. Volcanoes**
 - Alert: NORMAL, Code: GREEN
 - Alert: ADVISORY, Code: YELLOW
 - Alert: WATCH, Code: ORANGE
 - Alert: WARNING, Code: ORANGE
 - Alert: WATCH, Code: RED
 - Alert: WARNING, Code: RED
- ☒ **Other Volcanoes**
- ☒ **Earthquakes**
 - 2.500000 - 3.000000
 - 3.000001 - 5.000000
 - 5.000001 - 10.000000
- ☒ **Hurricanes**
- OTHER**

Map: Iceland (Regions: VESTURLAND, NORDURLAND VESTRA, NORDURLAND EYSTRA, SUDURLAND, SUDURNE, Vestfirðir, Borgarnes, Akureyr, Sauðárkrúkur, Egilsstaðir, Reykjavík, Keflavík, Selkross)

Other Volcanoes

(2 of 2)

OBJECTID	13
Shape	Point
id	Bardarbunga (Iceland)
pubdate	Wed, 20 Aug 2014 02:10:54 -0400
link	More info

[Zoom to](#)

60km
30mi

POWERED BY **esri**

Overview of ArcGis Online

Cloud-based platform
make map, collaborate,
And share with others

Personal free account

Organization with subscription

Demo live



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Style story map

Global Crossroads: The Wo... x +

storymaps.esri.com/stories/2013/airports/

Google

Search

Star

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Menu

Global Crossroads: The World's 25 Busiest Airports

More than 1.4 billion airline passengers departed, landed, or connected through these massive facilities in 2012. Viewing them from above gives a sense of their gargantuan scale and global significance.

A story map [f](#) [t](#) [v](#)

esri

1

2

3

4

5

6

7

8

9

10

11

12

13

1. Hartsfield-Jackson Atlanta International Airport

Atlanta, United States

95.46 million passengers, 2012

Tap image for larger version

+ -

1792 x 1010px

Size: 524.7KB

100%

esri

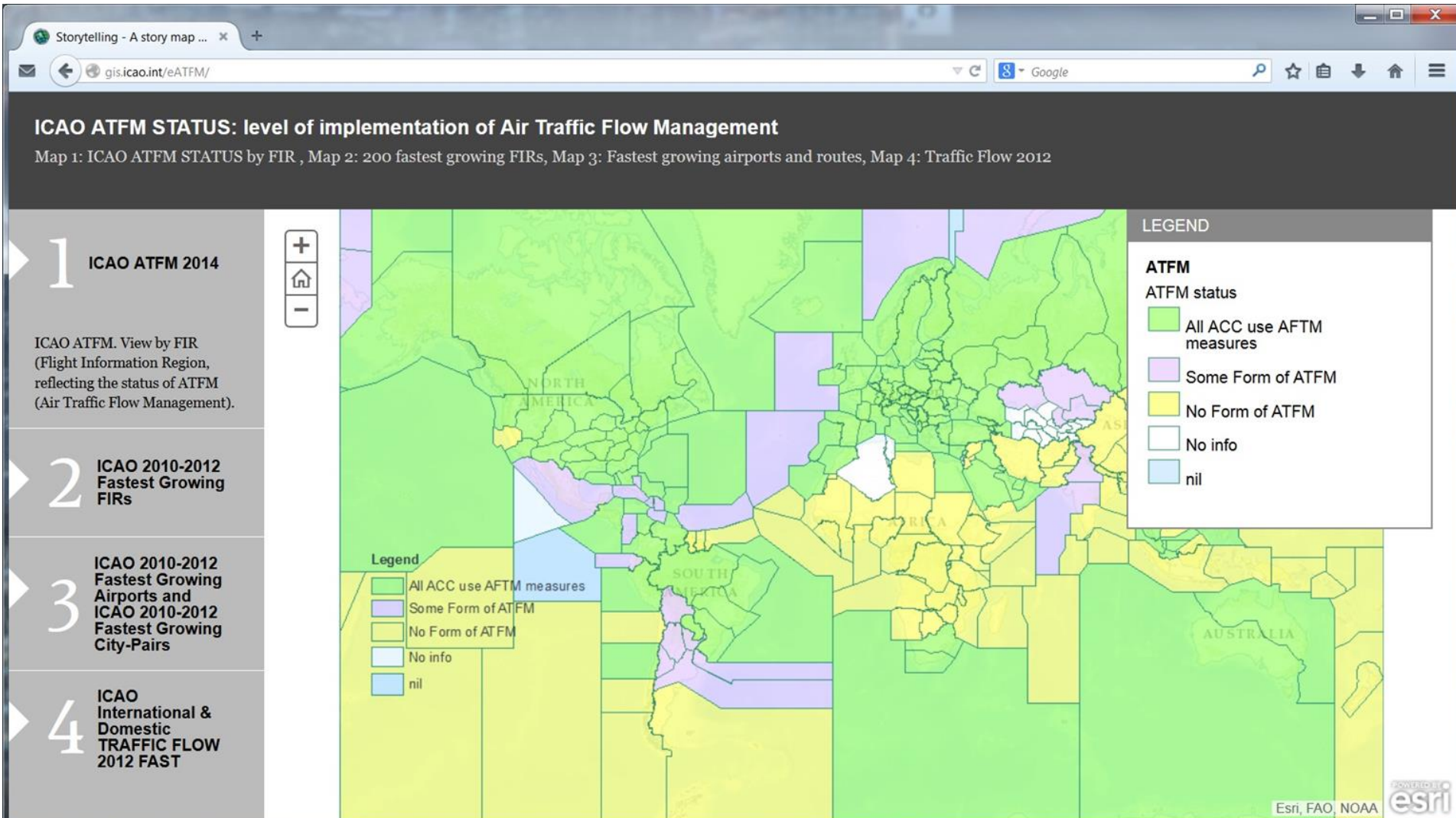
POWERED BY



ICAO

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Style Accordion map

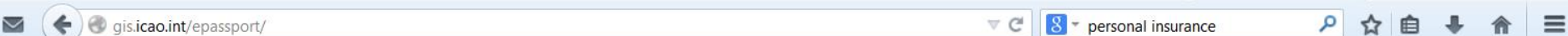




ICAO

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Style Accordion map



ICAO ePassport issuing States Participants in Public Key Directory (PKD)

A story map [f](#) [t](#) [v](#)

ICAO-PKD 45 Participants/Countries issuing ePassport, Second map: 200 Fir's with the most growth, Last map: Traffic Flow 2012



1

ICAO ePassport issuing States Participants in Public Key Directory (PKD)

Map interactive for the States Participants in the ICAO Public Key Directory (PKD) in Green

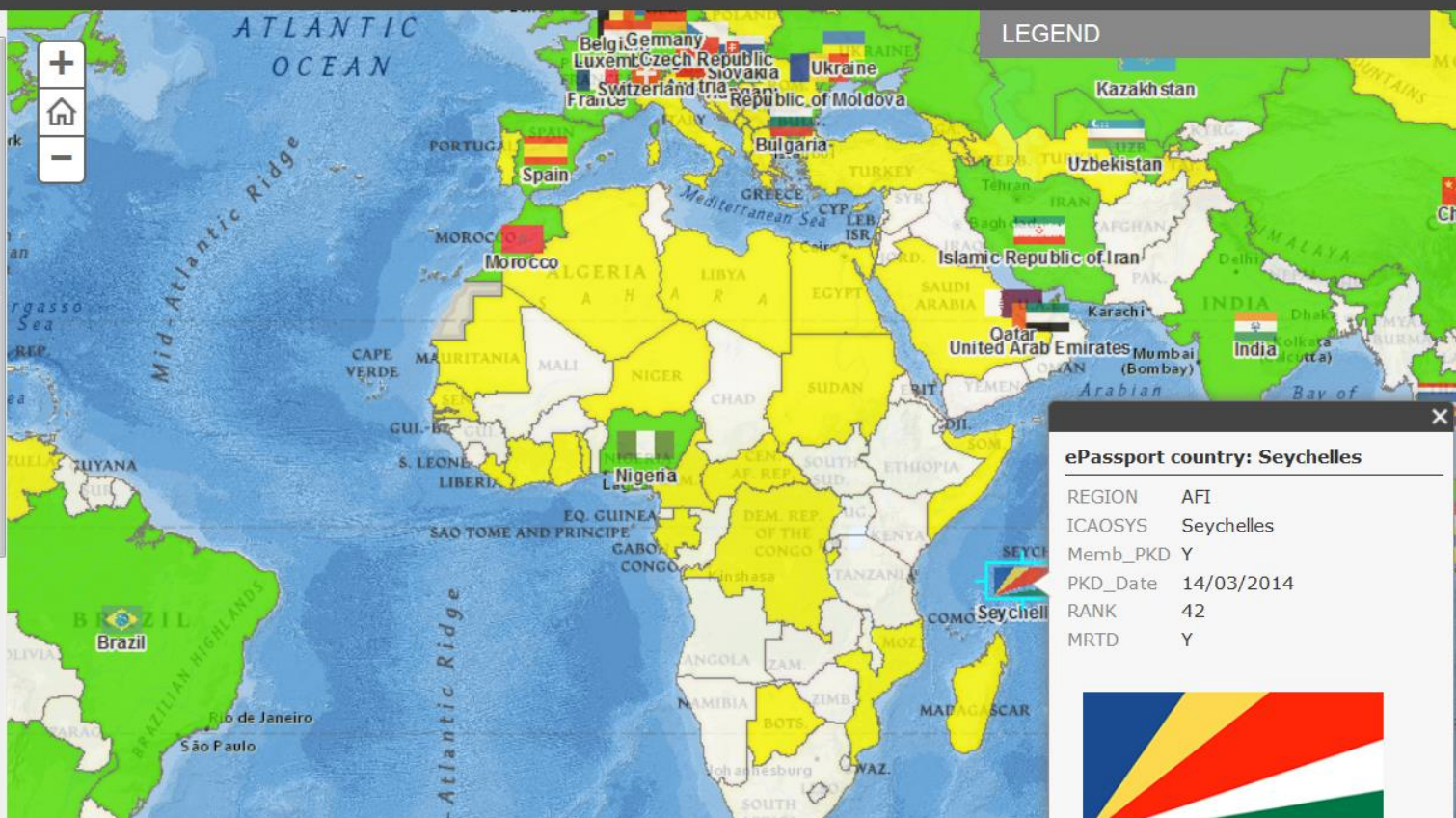
In Yellow: Other countries issuing ePassport but not in the Public Key Directory (PKD)

In White: No info available or (MRTD) Machine Readable Travel Document

2

ICAO 2010-2012 Fastest Growing FIRs

ICAO 2010-2012 Fastest





ICAO

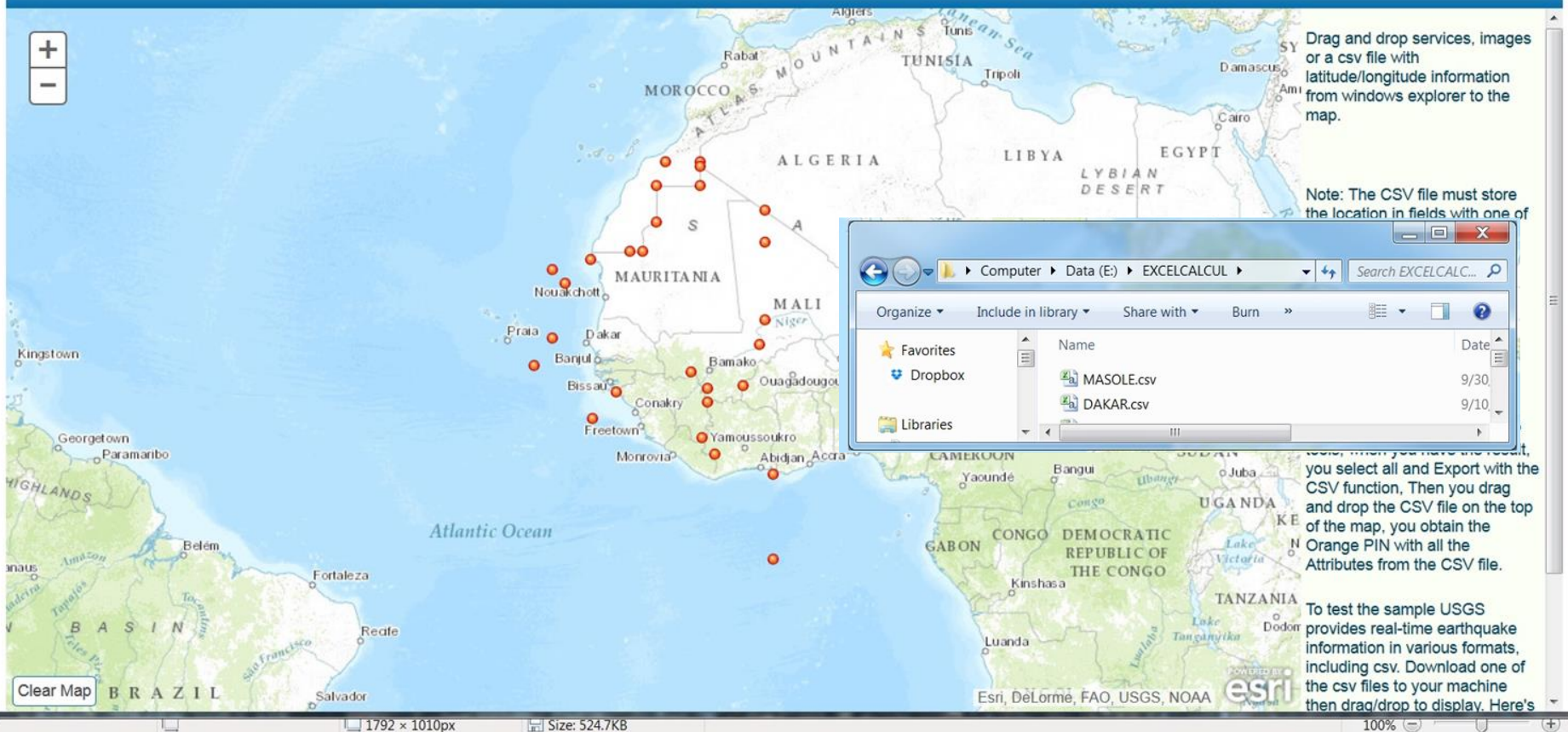
UNITING AVIATION

Representation Lat Long with ...

gis.icao.int/DRAGDROP/

Google

Drag and Drop ICAO Tool (rapid plot: Create your csv file with EXCEL save as CSV, put lat long in FrDeg)

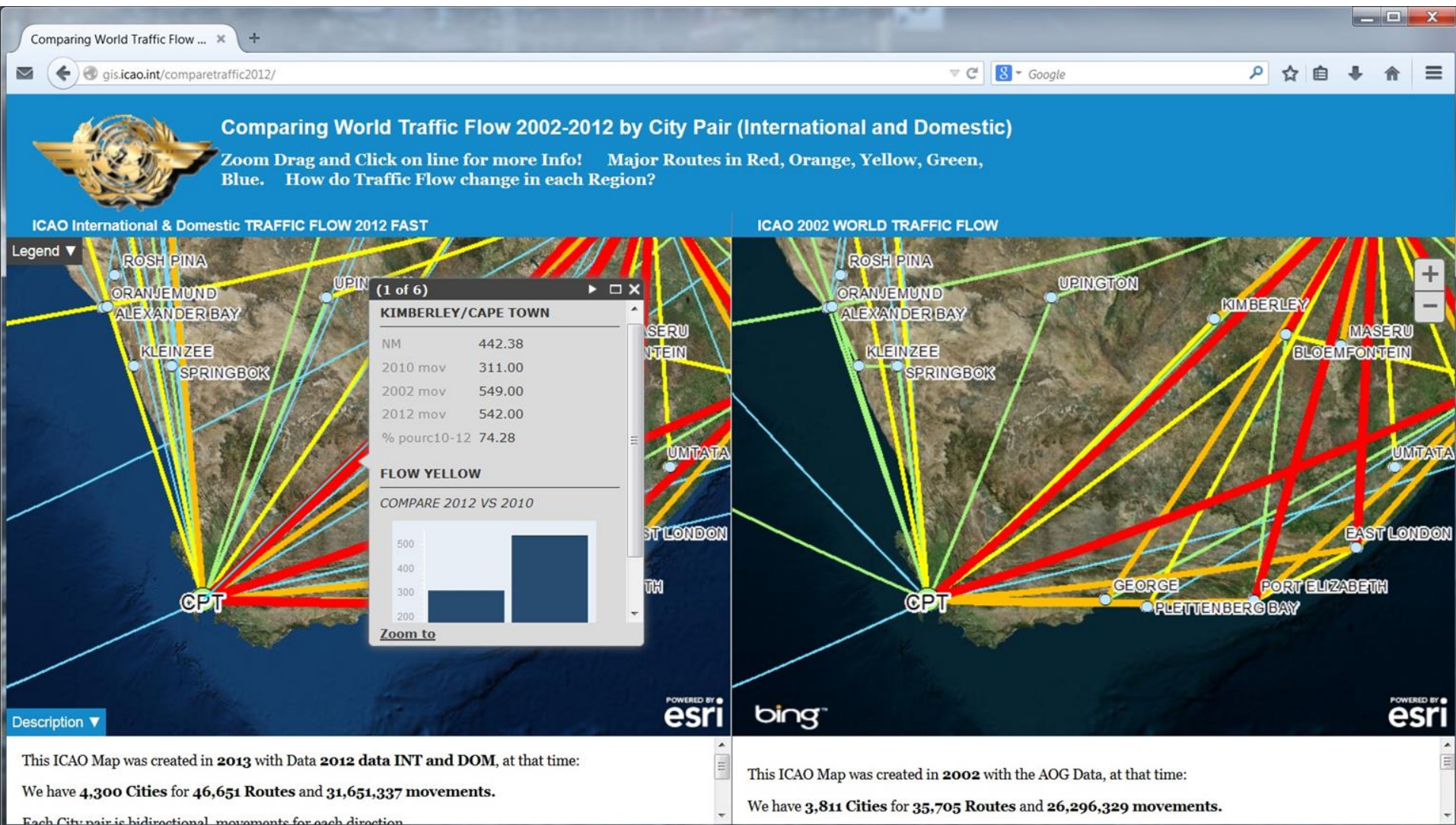




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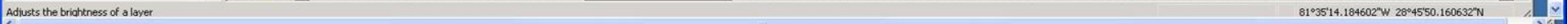
Style Compare multiple map



[COMPARE TRAFFIC](#)



ArcGis desktop Editor creator tools





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Price for GIS on cloud

Start making custom maps

Discover how easy it is to create, design and publish custom maps using Mapbox. Sign up for free today.

[Sign up for free](#)

Need more? Try Enterprise

Plan type
Monthly Annual

	Free	Basic	Standard	Plus	Premium
	No cost	\$5 / month	\$49 / month	\$149 / month	\$499 / month
Map views	3,000 / month	10,000 / month	100,000 / month	300,000 / month	1,000,000 / month
Geographic features Points, lines, polygons	20 / map	2000 / map	2000 / map	2000 / map	2000 / map
Total storage For TileMill maps	50 MB	250 MB	3 GB	10 GB	30 GB
SSL maps Secure encryption	✓	✓	✓	✓	✓
Online support We're here to help	✓	✓	✓	✓	✓
Mapbox Satellite Beautiful imagery	✗	✓	✓	✓	✓
No Mapbox logo Remove our logo	✗	✗	✓	✓	✓
Dedicated support 1-Day turnaround	✗	✗	✗	✗	✓
	Sign up	Sign up	Sign up	Sign up	Sign up



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Price for GIS on cloud: 150GB = \$25,000/year for ICAO

The screenshot shows the CartoDB pricing page for enterprise plans. The page has a blue header with the CartoDB logo and navigation links: VISUALIZE, ANALYZE, DEVELOP, CASE STUDIES, DOCUMENTATION, PRICING, and a SIGN IN button. The main heading is "Scale and performance to meet your needs" with a subtext: "Our CartoDB dedicated instances are tailored to the most demanding clients. SLA available, private tables and excellent support. Check them out." Below this, there are two tabs: "Standard plans" and "Enterprise plans". The "Enterprise plans" tab is selected, showing four pricing columns for XS, S, M, and L instances. Each column lists features like unlimited tables, storage capacity, private tables, 24/7 support, sync tables, map views, and geocodings. At the bottom of each column is a "Create Account" button and an alternative annual payment option.

XS instance	S instance	M instance	L instance
\$499/mo	\$899/mo	\$1,599/mo	\$2,499/mo
Unlimited tables	Unlimited tables	Unlimited tables	Unlimited tables
Up to 2 GB	Up to 15 GB	Up to 40 GB	Up to 100 GB
Private tables	3.5 GB Cache	7 GB Cache	14 GB Cache
24/7 dedicated support	24/7 dedicated support	24/7 dedicated support	24/7 dedicated support
Sync tables	Sync tables	Sync tables	Sync tables
800,000 Map Views*	800,000 Map Views*	800,000 Map Views*	800,000 Map Views*
50,000 Geocodings*	50,000 Geocodings*	50,000 Geocodings*	50,000 Geocodings*
Create Account	Create Account	Create Account	Create Account
Or pay \$5,499/year	Or pay \$9,999/year	Or pay \$17,999/year	Or pay \$28,499/year



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ICAO GIS Groups

ICAO MAP GALLERY

ICAO BASE INFORMATION

ICAO CODE

ICAO STATUS

ICAO FIR

ICAO TRAFFIC FLOW

ICAO SILVERLIGHT

ICAO ENV

ICAO ETOD Demo

ICAO GIS ANPs

Demo live



ICAO

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PM ICAO Public Maps x +

gis.icao.int/gallery/ Google

GIS services most popular (ICAO Services with more views)

Service	Views
ICAO 2014 LPR	18,085 views
ICAO 2014 FIR	12,192 views
ICAO Traffic Flow 2012	10,900 views

Divided in ICAO Group, site hits last 6 month (1,500,000)

New product to Buy from ICAO ICAO ETOD solution shortcut
ICAO Maps and Web Applications for the Aeronautical World, Disclaimer see on the bottom of the page.
Find out more about ICAO GIS by viewing the gallery below by select your Group.

Service	Views
ICAO NEW STUFF	
ICAO 2014 FIR	
ICAO CODE	

New Route data for 2014

Service	Views
ICAO 2014 LPR	
ICAO 2014 FIR	
ICAO Traffic Flow 2012	



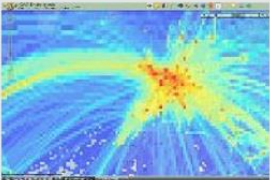
ICAO

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PM ICAO Public Maps

gis.icao.int/gallery/


Google




ICAO ENV



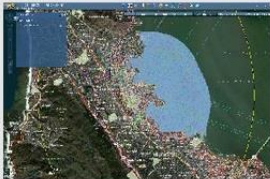
ICAO PROTOTYPE



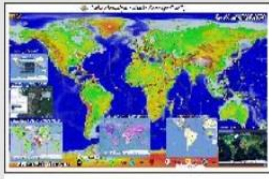
ICAO BASE INFO



ICAO SILVERLIGHT




ICAO ETOD




ICAO ACCIDENTS


New Route data for 2014





ICAO ALL Services



ICAO GIS ANPs

 Tweet 8

 Like 10

 +1

Note: If you are using an IPAD, Please do not click on the need Flash. It's just for the Computers with Flash compatibility, but if you find the ICAO version, without the need Flash prefix; It's will work

New product to Buy from ICAO



18 groups

The screenshot shows the ArcGIS web interface with a search for 'icao'. The search results page displays 18 results, with the first five visible. The results are listed in a table with columns for Relevance, Title, Owner, and Date. The first result is 'ICAO MAP GALLERY' by 'glasnier' from February 7, 2014. The second is 'ICAO BASE INFORMATION' by 'glasnier' from August 25, 2013. The third is 'ICAO Aeronautical Routes' by 'glasnier' from March 11, 2014. The fourth is 'ICAO CODE' by 'glasnier' from August 25, 2013. The fifth is 'ICAO STATUS' by 'glasnier' from August 25, 2013.

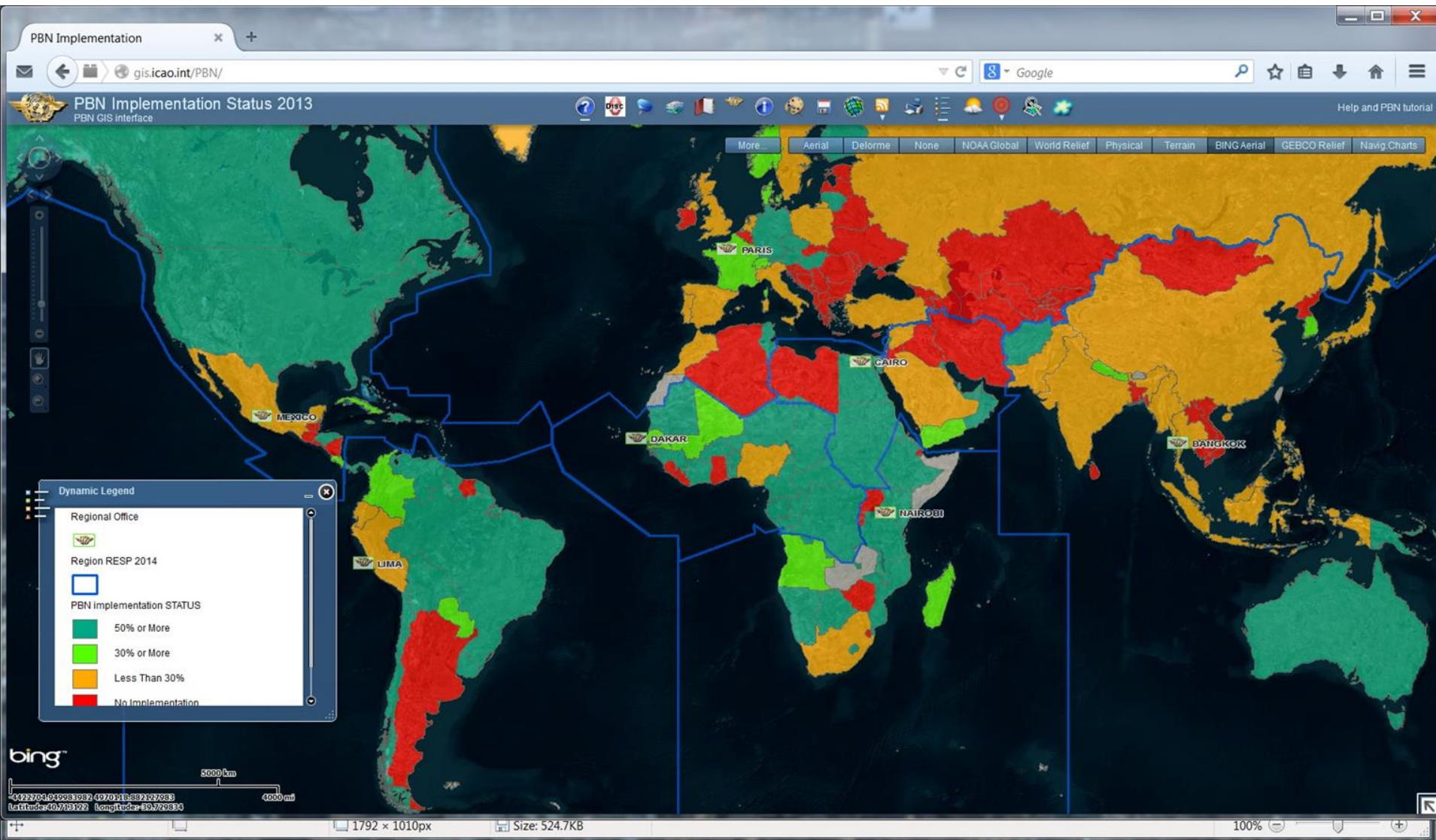
Relevance	Title	Owner	Date
	ICAO MAP GALLERY	glasnier	February 7, 2014
	ICAO BASE INFORMATION	glasnier	August 25, 2013
	ICAO Aeronautical Routes	glasnier	March 11, 2014
	ICAO CODE	glasnier	August 25, 2013
	ICAO STATUS	glasnier	August 25, 2013



ICAO

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ICAO Status group

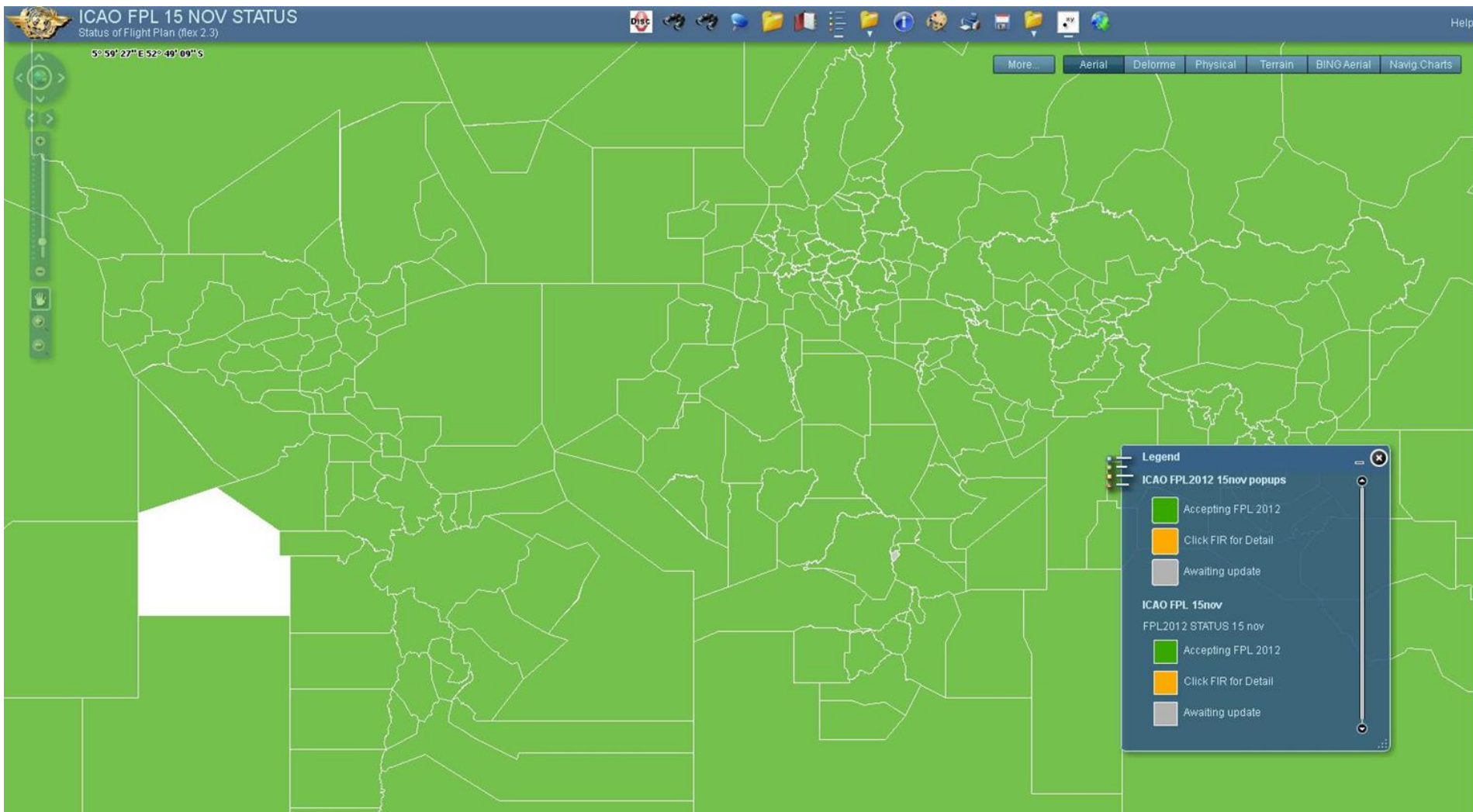




ICAO

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ICAO FLY PLAN status completed

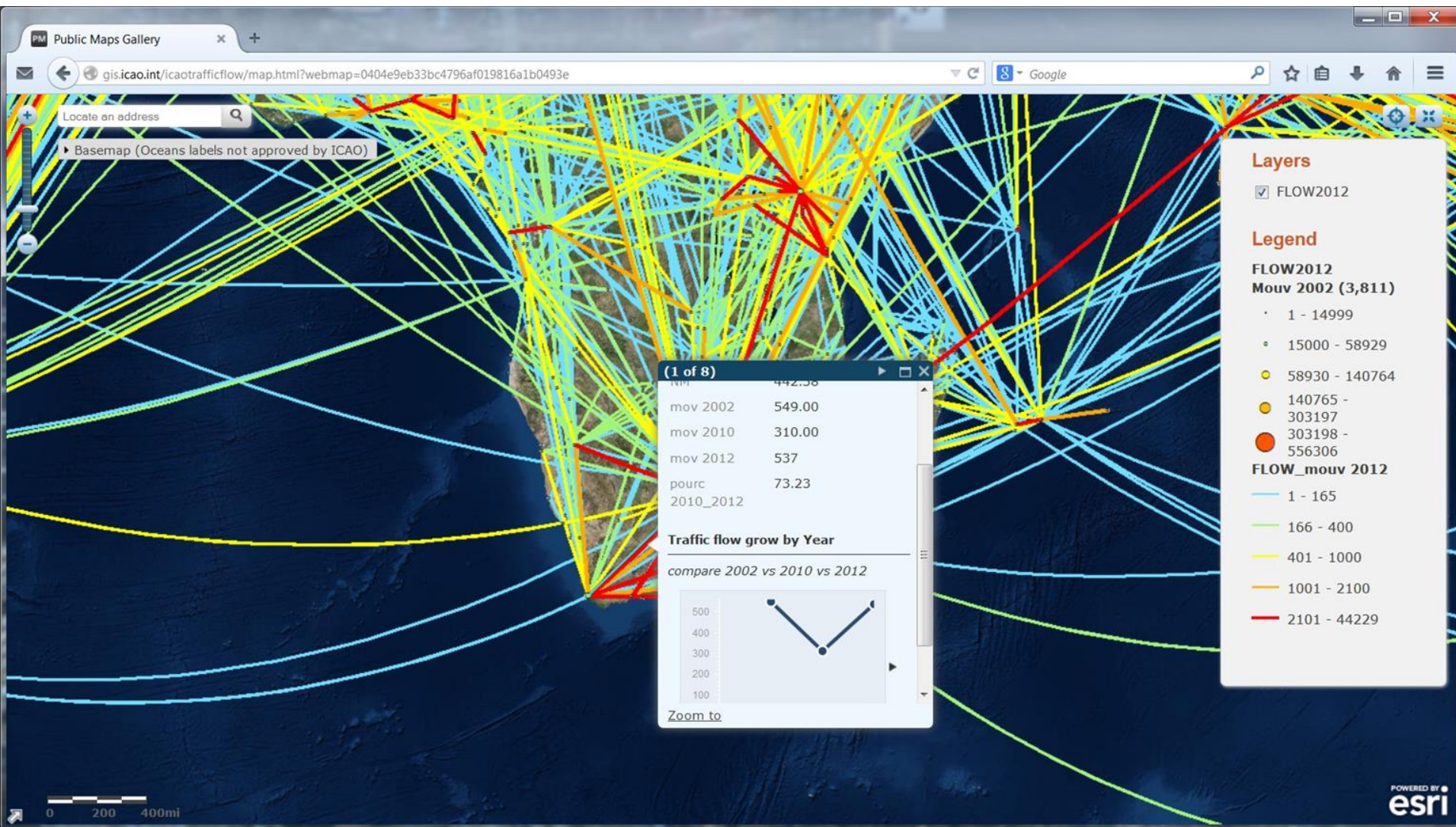




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ICAO Traffic flow group





ICAO

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ICAO code group

ICAO CODE: Icard 5LNC, Nav aids, Aerodromes, Routes, Location Indicator, Air space and more

Disclaimer see on the bottom of the page. Find out more about ICAO GIS by viewing the gallery below.

Search ICAO services



GIS services selector

List



2014 ICAO Route Designer

...



Flash ICAO AOP World ...



2014 Flash World SUAS ...

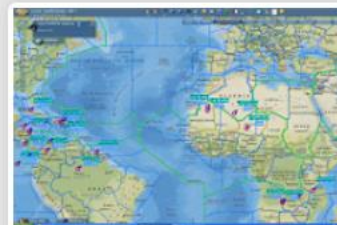


need Flash ICAO Doc 7910

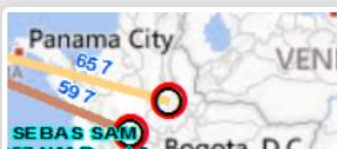
...



2014 ICAO WORLD SUAS and ...



Flash ICARD5LNC 2013 ...



[Download EANP](#)

[ICAO EANP](#)

[Embed ICAO services](#)

[Edit Secure ICAO GIS services](#)

[ICAO Portal \(Other Interface\)](#)

ICAO introduces a new ICAO MAP GALLERY: ICAO Server site

<http://gis.icao.int/> a part of its electronic Global Air Navigation Planning (eGANP) initiative.

[More ICAO](#)

[Other Links](#)

[Buy ICAO FIR data](#)

[ICAO FIR MAP](#)

[Hurricane Sandy](#)

[PIRG Report to Council 2011](#)

[ICAO ArcGIS.com Group](#)

[ICAO WGS84 Presentation ArcGIS Explorer](#)

[Esri Airports GIS Package](#)

ICAO GIS server analyse

Story about the Servers

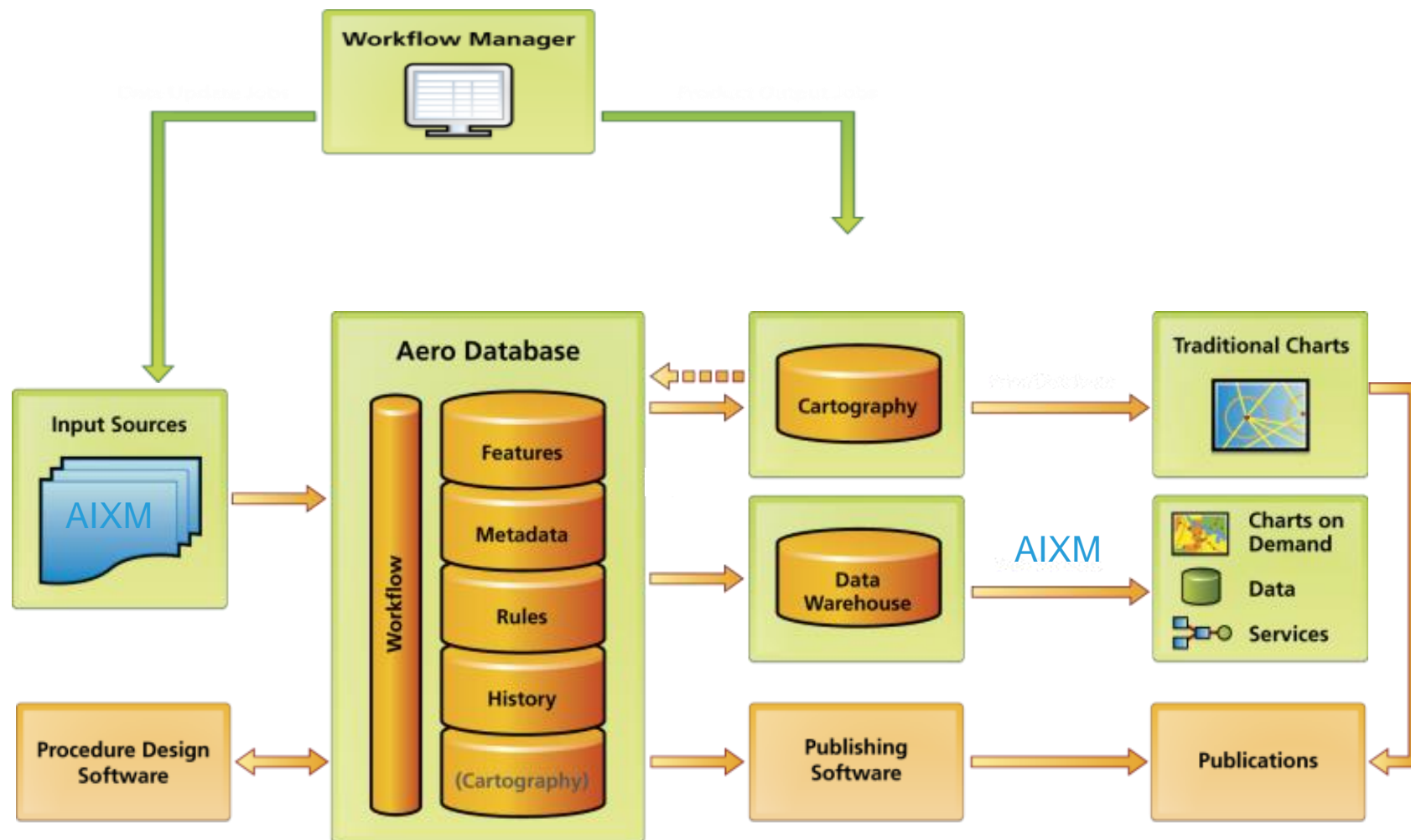
Statistics on the last server

Number of Instances and app.

Capacity for GIS services

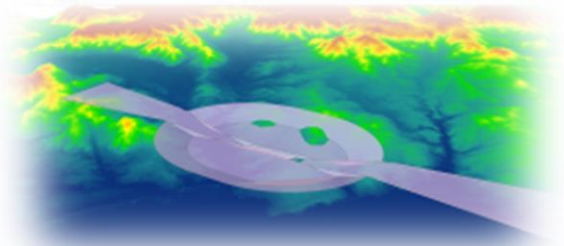
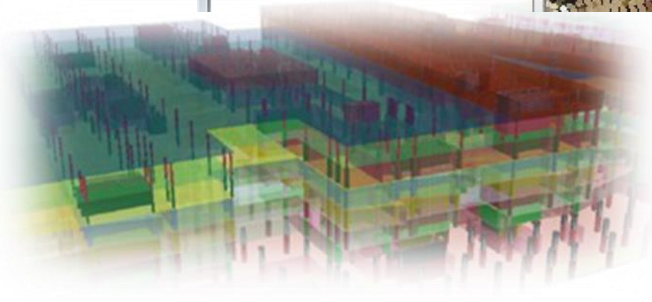
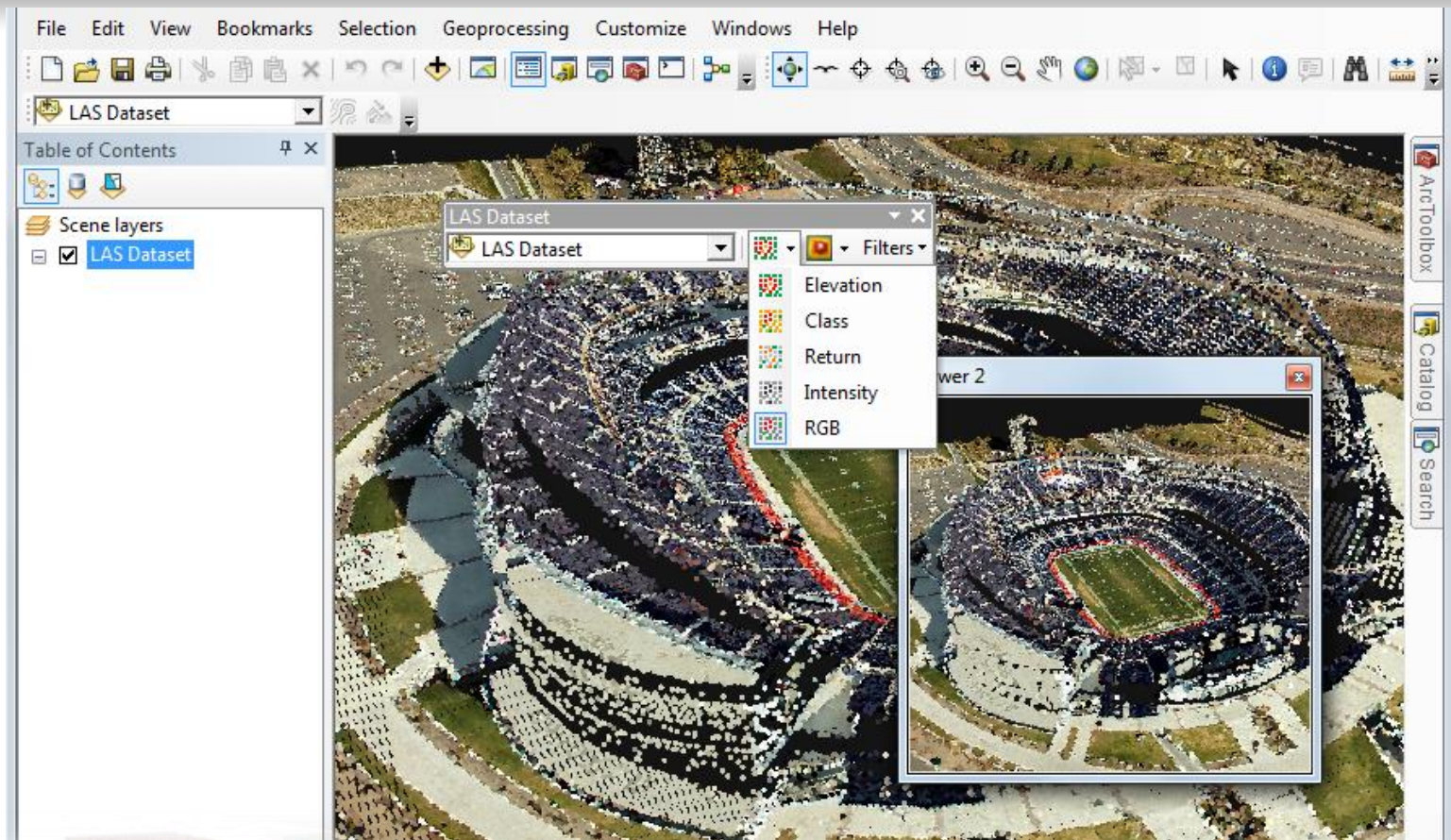
Cost for GIS Organization

GIS Cloud analyse



Relative Storage Cost-LAS vs GDB

- One LAS file
 - LAS file (with attributes) 44MB
 - Shapefile (geometry only) 52MB
 - PersonalGDB (geometry only) 40MB
 - FileGDB (geometry only) 7MB
- Project of many LAS files
 - 338 LAS files 12.5GB
 - Bare earth terrain dataset with embedded data in FileGDB 1.3GB





ICAO

UNITING AVIATION

gis1.icao.int - Remote Desktop Connection

ArcCatalog - ArcEditor - GIS Servers\GIS1 (admin)

File Edit View Go Geoprocessing Customize Windows Help

Location: GIS Servers\GIS1 (admin)

Catalog Tree

- C:\GeoEye
- C:\inetpub\wwwroot\accordion\128
- C:\LORENZO
- C:\marco
- C:\nimazip
- C:\NOTAM
- C:\Program Files (x86)\ArcGIS\Deskto
- C:\rader
- C:\REPUBLIC
- C:\roberta
- C:\ROUTESTUDY2010
- C:\sar
- C:\scan
- C:\Users\
- C:\Users\glasnier.ICAQ\Desktop
- C:\Users\glasnier.ICAQ\Documents\
- C:\Users\glasnier.ICAQ\Downloads
- C:\volcano
- C:\world_images
- C:\worldAOP
- C:\WORLDCHNS
- C:\xfer
- E:\Archive
- \\tsclient\C\CANSO
- \\tsclient\E\ltransfert
- \\tsclient\E\ACCORDEON
- \\tsclient\E\ANPfirIMS\countiesnature
- \\tsclient\E\anpworldims\sonallastud
- \\tsclient\E\FLOW\IMS\FIRCACULCO
- \\tsclient\E\FBN
- \\tsclient\G\Magda's Projects\flowims
- Toolboxes
- Database Servers
- Database Connections
- GIS Servers
 - Add ArcGIS Server
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 - Add WMS Server
 - arcgis on services.arcgisonline.com
 - GIS1 (admin)
 - VOLCEURO on gis.icao.int

Contents Preview Description

Name	Type	Status	Startup	Instances Running	Instances in Use
7910SQL	Map Service	Started	Automatic	1	0
AERODROME GROWTH	Map Service	Started	Automatic	0	0
AFI	Map Service	Started	Automatic	0	0
AIRAC P03	Map Service	Started	Automatic	0	0
AIRPLANE	Map Service	Started	Automatic	0	0
AIRPORT INT	Map Service	Stopped	Manual	0	0
AISAIM	Map Service	Started	Automatic	0	0
ANTARCTIC	Map Service	Started	Automatic	0	0
AOP	Map Service	Started	Automatic	0	0
ARCTIC	Map Service	Started	Automatic	0	0
ATFM	Map Service	Started	Automatic	0	0
AUDIT	Map Service	Stopped	Manual	0	0
CAEP	Map Service	Started	Automatic	0	0
CAEPEURO	Map Service	Started	Automatic	0	0
CANSO	Map Service	Started	Automatic	0	0
CARSAM	Map Service	Started	Automatic	0	0
COM	Map Service	Started	Automatic	0	0
COMVHF	Map Service	Started	Automatic	0	0
Conflict Zones	Map Service	Started	Automatic	0	0
countryed	Map Service	Started	Automatic	0	0
DEPART	Map Service	Started	Automatic	0	0
DOCEURO	Map Service	Started	Automatic	0	0
ENVworkshop	Map Service	Started	Automatic	0	0
epassEDIT	Map Service	Started	Automatic	0	0
ERCAN	Map Service	Started	Automatic	0	0
ETOD	Map Service	Started	Automatic	0	0
EUR	Map Service	Started	Automatic	0	0
FIRALL	Map Service	Started	Automatic	0	0
FIRCACHE	Map Service	Started	Automatic	0	0
FIREURO	Map Service	Started	Automatic	0	0
FIRFLIGHTSTAT	Map Service	Started	Automatic	0	0
FIRGROWTH	Map Service	Started	Automatic	0	0
FIRMSD	Map Service	Started	Automatic	0	0
FIRWORLD	Map Service	Started	Automatic	0	0
flag	Map Service	Started	Automatic	0	0
FLOW2010	Map Service	Started	Automatic	0	0
FLOW2012	Map Service	Started	Automatic	0	0
FLOW2012INT	Map Service	Started	Automatic	0	0
FLOWCHART2012FAST	Map Service	Started	Automatic	0	0
FLOWEURO	Map Service	Started	Automatic	0	0
FLU	Map Service	Started	Automatic	0	0

System

Control Panel - All Control Panel Items - System

Search Control Panel

Control Panel Home

View basic information about your computer

Windows edition

Windows Server 2008 R2 Enterprise

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System

Processor: Intel(R) Xeon(R) CPU X5650 @ 2.67GHz 2.67 GHz (4 processors)

Installed memory (RAM): 14.0 GB

System type: 64-bit Operating System

Pen and Touch: No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name: GIS1

Full computer name: GIS1.icao.int

Computer description:

Domain: icao.int

See also

Action Center

Windows Update

Windows is activated

Product ID: 5S041-266-0138414-84941

Change product key

ask for genuine



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UNITING AVIATION

gis1.icao.int - Remote Desktop Connection

ArcCatalog - ArcEditor - GIS Servers\GIS1 (admin)

File Edit View Go Geoprocessing Customize Windows Help

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- \\tsclient\E\ACCORDEON
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- \\tsclient\E\anpworldms\somaliastud
- \\tsclient\E\FLOWIMS\FIR.CALCULCO
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COMVHF	Map Service	Started	Automatic	0	0
Conflict Zones	Map Service	Started	Automatic	0	0
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DEPART	Map Service	Started	Automatic	0	0
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EUR	Map Service	Started	Automatic	0	0
FIRALL	Map Service	Started	Automatic	0	0
FIR CACHE	Map Service	Started	Automatic	0	0
FIREURO	Map Service	Started	Automatic	0	0
FIR FLIGHT STAT	Map Service	Started	Automatic	0	0
FIR GROWTH	Map Service	Started	Automatic	0	0
FIR MSD	Map Service	Started	Automatic	0	0
FIR WORLD	Map Service	Started	Automatic	0	0
flag	Map Service	Started	Automatic	0	0
FLOW2010	Map Service	Started	Automatic	0	0
FLOW2012	Map Service	Started	Automatic	0	0
FLOW2012INT	Map Service	Started	Automatic	0	0
FLOWCHART2012FAST	Map Service	Started	Automatic	0	0
FLOWELURO	Map Service	Started	Automatic	0	0
FLU	Map Service	Started	Automatic	0	0

ArcGIS Server - Map Service Properties

General | Parameters | Capabilities | Pooling | Processes | Caching

Pooling

This service should be:

☒ Pooled - Used repeatedly by many clients.

☐ Not pooled - Used by a single client and disposed of after use.

Minimum number of instances: 2

Maximum number of instances: 4

Timeouts

The maximum time a client can use a service: 600 seconds

The maximum time a client will wait to get a service: 60 seconds

The maximum time an idle instance can be kept running: 60 seconds



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gis1.icao.int - Remote Desktop Connection

ArcCatalog - ArcEditor - Database Servers\GIS1_ARCGIS10.gds\ARCGISW (VERSION:dbo.DEFAULT)

File Edit View Go Geoprocessing Customize Windows Help

Locations: Database Servers\GIS1_ARCGIS10.gds\ARCGISW (VERSION:dbo.DEFAULT)

Catalog Tree

- C:\marco
- C:\nimazip
- C:\NOTAM
- C:\Program Files (x86)\ArcGIS\Desk...
- C:\radar
- C:\REPUBLIC
- C:\yoberta
- C:\ROUTESTUDY2010
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Contents Preview Description

Name	Type
ARCGISW.DBO.AERORelated	SDE Feature Class
ARCGISW.DBO.AERORelated__ATTACH	SDE Table
ARCGISW.DBO.AERORelated__ATTACHREL	SDE Relationship Class
ARCGISW.DBO.AIRAC	SDE Feature Class
ARCGISW.DBO.AIRAC__ATTACH	SDE Table
ARCGISW.DBO.AIRAC__ATTACHREL	SDE Relationship Class
ARCGISW.DBO.AISAIMbaseEdit	SDE Feature Class
ARCGISW.DBO.Anno_55_60	SDE Relationship Class
ARCGISW.DBO.Anno_55_60_1	SDE Relationship Class
ARCGISW.DBO.ASIAROUTE2011	SDE Feature Class
ARCGISW.DBO.ASIAROUTEEDIT	SDE Feature Class
ARCGISW.DBO.ATFNstatusEdit	SDE Feature Class
ARCGISW.DBO.COMpts	SDE Feature Class
ARCGISW.DBO.COMpts__ATTACH	SDE Table
ARCGISW.DBO.COMpts__ATTACHREL	SDE Relationship Class
ARCGISW.DBO.doc7910	SDE Feature Class
ARCGISW.DBO.EADNEDIT	SDE Feature Class
ARCGISW.DBO.EDITaddpoint	SDE Feature Class
ARCGISW.DBO.EDITMID	SDE Feature Class
ARCGISW.DBO.EDITMID__ATTACH	SDE Table
ARCGISW.DBO.EDITMID__ATTACHREL	SDE Relationship Class
ARCGISW.DBO.EDITOR_LPR	SDE Feature Class
ARCGISW.DBO.EDITOR_LPR__ATTACH	SDE Table
ARCGISW.DBO.EDITOR_LPR__ATTACHREL	SDE Relationship Class
ARCGISW.DBO.ePassport_PKD_MembersAnno	SDE Feature Class
ARCGISW.DBO.ePassport_PKD_MembersAn...	SDE Feature Class
ARCGISW.DBO.ePassportEdit	SDE Feature Class
ARCGISW.DBO.ePassportEditactive	SDE Feature Class
ARCGISW.DBO.ePassportflag	SDE Feature Class
ARCGISW.DBO.ePassportflagactive	SDE Feature Class
ARCGISW.DBO.FIRConflictZonesEDIT	SDE Feature Class
ARCGISW.DBO.FIRConflictZonesEDIT__ATT...	SDE Table
ARCGISW.DBO.FIRConflictZonesEDIT__ATT...	SDE Relationship Class
ARCGISW.DBO.FIRFPLEDIT	SDE Feature Class
ARCGISW.DBO.FITS2012EDIT	SDE Feature Class
ARCGISW.DBO.FPL2012STATUS	SDE Feature Class
ARCGISW.DBO.FPLEDIT	SDE Feature Class
ARCGISW.DBO.ICAOREGIONEDIT	SDE Feature Class
ARCGISW.DBO.IFATCAmemberEDITION	SDE Feature Class
ARCGISW.DBO.IFATCAmemberEDITION__A...	SDE Table
ARCGISW.DBO.IFATCAmemberEDITION__A...	SDE Relationship Class
ARCGISW.DBO.PENEDIT	SDE Feature Class

Geodatabase selected

builder + ... shortcut viewer



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UNITING AVIATION

gis1.icao.int - Remote Desktop Connection

ArcCatalog - ArcEditor - Database Connections\ICAO_LIVE.odc

File Edit View Go Geoprocessing Customize Windows Help

Locations: Database Connections\ICAO_LIVE.odc

Catalog Tree

- C:\marco
- C:\nimazip
- C:\NOTAM
- C:\Program Files (x86)\ArcGIS\Desktop
- C:\radar
- C:\REPUBLIC
- C:\yoberta
- C:\ROUTESTUDY2010
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 - Add Spatial Database Connection
 - AFS.odc
 - ICAO_LIVE.odc
 - OLE DB Connection.odc
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 - Add ArcGIS Server
 - Add ArcIMS Server
 - Add WFS Server

Contents | Preview | Description

Name	Type
CICTT.ACFT_CAT	Oracle Table
CICTT.ACFT_MAKE_MODEL_SERIES	Oracle Table
CICTT.ACFT_MAKE_REF	Oracle Table
CICTT.ACFT_MASTER_MODEL	Oracle Table
CICTT.ACFT_MASTER_SERIES_REF	Oracle Table
CICTT.ACFT_MODEL_REF	Oracle Table
CICTT.ACFT_POPULAR_NAME_REF	Oracle Table
CICTT.ACFT_SERIES_POPULAR_NAME	Oracle Table
CICTT.ACFT_SERIES_REF	Oracle Table
CICTT.ACFT_SUB_CAT	Oracle Table
CICTT.COUNTRY_CODES	Oracle Table
CICTT.ICAQ_ACFT_TYPE_DESIGNATOR	Oracle Table
CICTT.ICAQ_MMS	Oracle Table
CICTT.ORGANIZATION	Oracle Table
CICTT.ORGANIZATION_ORGANIZATION_ROLE	Oracle Table
CICTT.ORGANIZATION_ROLE	Oracle Table
CICTT.TYPE_CERTIFICATE	Oracle Table
ICARD_LIVE.BIN\$RsdAswdqSHK6SD0eIoHY...	Oracle Table
ICARD_LIVE.GIS_SLNC_ALL_DUP_VIEW	Oracle Table
ICARD_LIVE.GIS_SLNC_ALL_OC_VIEW	Oracle Table
ICARD_LIVE.GIS_SLNC_DUPWITHIN_DISTA...	Oracle Table
ICARD_LIVE.GIS_SLNC_LIKESND_4LET_PTS...	Oracle Table
ICARD_LIVE.GIS_SLNC_LIKESND_4LETTER...	Oracle Table
ICARD_LIVE.GIS_SLNC_RELEA_VIEW	Oracle Table
WK_TEST.WK\$ATTR_LOV_TL_V	Oracle Table
WK_TEST.WK\$ATTR_LOV_V	Oracle Table
WK_TEST.WK\$ATTR_VAL_V	Oracle Table
WK_TEST.WK\$DOC_RELEVANCE_V	Oracle Table
WK_TEST.WK\$STATISTIC_V	Oracle Table
WK_TEST.WK\$URL_V	Oracle Table
XDB.PATH_VIEW	Oracle Table
XDB.RESOURCE_VIEW	Oracle Table
XDB.XDB\$ACL	Oracle Table
XDB.XDB\$ALL_MODEL	Oracle Table
XDB.XDB\$ANY	Oracle Table
XDB.XDB\$ANYATTR	Oracle Table
XDB.XDB\$ATTRGROUP_DEF	Oracle Table
XDB.XDB\$ATTRGROUP_REF	Oracle Table
XDB.XDB\$ATTRIBUTE	Oracle Table
XDB.XDB\$CHOICE_MODEL	Oracle Table
XDB.XDB\$COMPLEX_TYPE	Oracle Table
XDB.XDB\$CONFIG	Oracle Table

OLE DB Connection selected

builder ... short cut viewer



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gis1.icao.int - Remote Desktop Connection

ArcCatalog - ArcEditor - Database Connections\AFS.odc

File Edit View Go Geoprocessing Customize Windows Help

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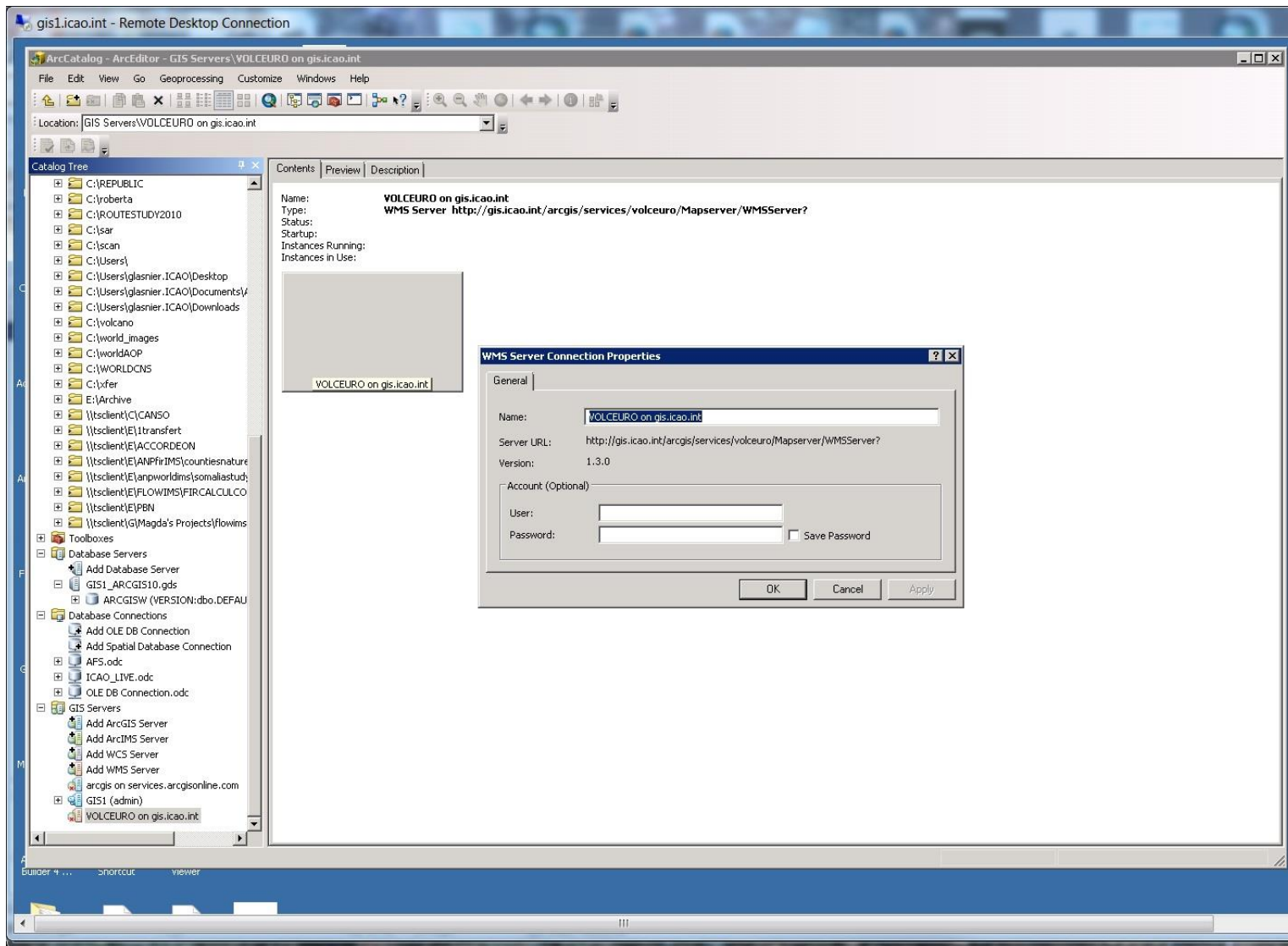
Name	Type
dbo.AFS_Bad_Words_List	Microsoft SQL Server Table
dbo.AFS_Edition	Microsoft SQL Server Table
dbo.AFS_Entrance	Microsoft SQL Server Table
dbo.AFS_Glossary	Microsoft SQL Server Table
dbo.AFS_History_Records	Microsoft SQL Server Table
dbo.AFS_History_Records_bak	Microsoft SQL Server Table
dbo.AFS_Service_Type	Microsoft SQL Server Table
dbo.AFS_State_Group_Mapping	Microsoft SQL Server Table
dbo.AFS_State_SubTerr_Group_Columns	Microsoft SQL Server Table
dbo.AFS_State_SubTerr_Group_Type	Microsoft SQL Server Table
dbo.AFS_State_TerrCode_Mapping	Microsoft SQL Server Table
dbo.AFS_SubTerr_Group_Mapping	Microsoft SQL Server Table
dbo.AFS_SubTerr_History_Records	Microsoft SQL Server Table
dbo.AFS_SubTerr_TerrCode_Mapping	Microsoft SQL Server Table
dbo.AFS_Territory_Code_Ref	Microsoft SQL Server Table
dbo.AIM_1	Microsoft SQL Server Table
dbo.AIM_1_AIP_Mapping	Microsoft SQL Server Table
dbo.AIM_1_AID_Mapping	Microsoft SQL Server Table
dbo.AIM_1_MAP_Mapping	Microsoft SQL Server Table
dbo.AIM_1_Preflight_Mapping	Microsoft SQL Server Table
dbo.AIM_2	Microsoft SQL Server Table
dbo.AIM_3	Microsoft SQL Server Table
dbo.AIM_4	Microsoft SQL Server Table
dbo.AIM_5	Microsoft SQL Server Table
dbo.AIM_6	Microsoft SQL Server Table
dbo.AIM_7	Microsoft SQL Server Table
dbo.AIM_8	Microsoft SQL Server Table
dbo.AIM_9	Microsoft SQL Server Table
dbo.AIM_Status_Ref	Microsoft SQL Server Table
dbo.AOP_Aerodrome	Microsoft SQL Server Table
dbo.AOP_Alternate_Aerodrome_Mapping	Microsoft SQL Server Table
dbo.AOP_ARC	Microsoft SQL Server Table
dbo.AOP_Designation	Microsoft SQL Server Table
dbo.AOP_RFF	Microsoft SQL Server Table
dbo.AOP_Runway	Microsoft SQL Server Table
dbo.AOP_Runway_Type	Microsoft SQL Server Table
dbo.AOP_RVR	Microsoft SQL Server Table
dbo.DOC7910_V	Microsoft SQL Server Table
dbo.DOC7910_WithRegion_V	Microsoft SQL Server Table
dbo.FIR_Geo	Microsoft SQL Server Table
dbo.MET1A	Microsoft SQL Server Table
dbo.MET_Accafn_Address	Microsoft SQL Server Table

Builder Shortcut Viewer



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- \\tsclient(E)\transfert
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- \\tsclient(E)\ANPfirIMS\countiesnature
- \\tsclient(E)\anpworldims\smallastudy
- \\tsclient(E)\FLOWIMS\FIRCALCULCO
- \\tsclient(E)\PBN
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FLOWCHART2012FAST	Map Service	Started	Automatic	0	0
FLU	Map Service	Started	Automatic	1	0
FLU2	Map Service	Started	Automatic	0	0
FLUKUSHIMA	Map Service	Started	Automatic	0	0
GANIS	Map Service	Started	Automatic	0	0
GEOEYE	Map Service	Started	Automatic	0	0
Geometry	Map Service	Started	Automatic	0	0
ICAQMAP	Map Service	Started	Automatic	0	0
ICAQTRAFFIC	Map Service	Started	Automatic	0	0
ICARDSLNC	Map Service	Started	Automatic	0	0
IFATCA	Map Service	Started	Automatic	0	0
Language	Map Service	Started	Automatic	0	0
LIBYA	Map Service	Started	Automatic	0	0
MIDREGION	Map Service	Started	Automatic	0	0
NAT	Map Service	Started	Automatic	0	0
PBN	Map Service	Started	Automatic	0	0
QUALITEP17	Map Service	Started	Automatic	0	0
RADAR	Map Service	Started	Automatic	0	0
ROUTE	Map Service	Started	Automatic	0	0
ROUTEASIAM	Map Service	Started	Automatic	0	0
RouteMID	Map Service	Started	Automatic	0	0
SAAFA	Map Service	Started	Automatic	0	0
SARWORLD	Map Service	Started	Automatic	0	0
SCAN	Map Service	Started	Automatic	0	0
SCANAFI	Map Service	Started	Automatic	0	0
STATEFLIGHTSTAT	Map Service	Started	Automatic	0	0
SUPPS	Map Service	Started	Automatic	0	0
TRAFFICFLOW	Map Service	Started	Automatic	0	0
TRAFFICTIME	Map Service	Started	Automatic	0	0
VOLCANO	Map Service	Started	Automatic	0	0
VOLCEURO	Map Service	Started	Automatic	0	0
WGS84	Map Service	Started	Automatic	0	0
WGS84P05	Map Service	Started	Automatic	0	0
WORLDROUTE	Map Service	Started	Automatic	0	0
WORLDUSAS	Map Service	Started	Automatic	0	0

ArcGIS Server - Map Service Properties

General | Parameters | Capabilities | Pooling | Processes | Caching

☒ Mapping (always enabled)

☐ Feature Access

☐ Mobile Data Access

☒ WMS

☒ KML

☐ Network Analysis

☒ WFS

☐ WCS

☒ Enable Web Access

URL: <http://gis.icao.int/arcgis/services/VOLCEURO/MapS>

Operations allowed:

☒ Map ☒ Query ☐ Data

Properties

<There are no properties for this capability>

OK Cancel Apply



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gis1.icao.int - Remote Desktop Connection

ArcCatalog - ArcEditor - GIS Servers\GIS1 (admin)

File Edit View Go Geoprocessing Customize Windows Help

Locations: GIS Servers\GIS1 (admin)

Catalog Tree

- C:\REPUBLIC
- C:\roberta
- C:\ROUTESTUDY2010
- C:\sar
- C:\scan
- C:\Users\
- C:\Users\glasnier.ICA\O\Desktop
- C:\Users\glasnier.ICA\O\Documents\
- C:\Users\glasnier.ICA\O\Downloads
- C:\volcano
- C:\world_images
- C:\worldAOP
- C:\WORLDGNS
- C:\xfer
- E:\Archive
- \\tsclient\C\CANSO
- \\tsclient\E\Itransfert
- \\tsclient\E\ACCORDION
- \\tsclient\E\ANPfirIMS\countiesnature
- \\tsclient\E\anpworldins\sonalastudy
- \\tsclient\E\FLOWIMS\FIRCALCULCO
- \\tsclient\E\FLOWIMS\FIRPBN
- \\tsclient\G\Magda's Projects\flowims

Database Servers

- Add Database Server
- GIS1_ARCGIS10.gds
- ARC GISW (VERSION: dbo.DEFAU

Database Connections

- Add OLE DB Connection
- Add Spatial Database Connection
- AFS.odc
- ICAOLIVE.odc
- OLE DB Connection.odc

GIS Servers

- Add ArcGIS Server
- Add ArcIMS Server
- Add WCS Server
- Add WMS Server
- arcgis on services.arcgisonline.com
- GIS1 (admin)
- VOLCEURO on gis1.icao.int

Contents Preview Description

Name	Type	Status	Startup	Instances Running	Instances in Use
DOCEURO	Map Service	Stopped	Manual	0	0
EN\workshop				0	0
epassEDIT				0	0
ERCAN				0	0
ETOD				0	0
EUR				1	0
FIRALL				0	0
FIRCAQHE				0	0
FIREURO				0	0
FIRFLIGHTSTAT				0	0
FIRGROWTH				1	0
FIRMSD				0	0
FIRWORLD				2	0
flag				1	0
FLOW2010				0	0
FLOW2012				0	0
FLOW2012INT				0	0
FLOW\CHART2012FAST				1	0
FLOWEURO				0	0
FLU				0	0
FLU2				0	0
FUKUSHIMA				0	0
GANIS				0	0
GEOEYE				0	0
Geometry				1	0
ICAOMAP				0	0
ICAOTRAFFIC				0	0
ICARDSLNC				1	0
IFATCA				0	0
Language				0	0
LIBYA				0	0
MIDREGION				0	0
NAT				0	0
PBN				1	0
QUALITEP17				0	0
RADAR				1	0
ROUTE				0	0
ROUTEASIAM				0	0
RouteMID				0	0
SAFA				0	0
SARWORLD				0	0

ArcGIS Server - Map Service Properties

General Parameters Capabilities Pooling Processes Caching

Draw this map service: ☐ Dynamically from the data ☒ Using tiles from its cache

Update Tiles... Delete Cache...

Tiling Scheme

Load tiling scheme from... Storage Format: Compact

Origin (x, y) in map units: X: -400 Y: 400

Scales:

- 1:125,000,000
- 1:64,000,000
- 1:32,000,000
- 1:16,000,000
- 1:8,000,000
- 1:4,000,000
- 1:2,000,000

Add Delete Suggest...

Image Settings:

Tile Format: PNG8

Compression:

Height: 256 pixels

Width: 256 pixels

Dots per inch: 96 DPI

☐ Smooth line and label edges (anti-aliasing)

☐ Create tiles on demand

☒ Allow clients to cache tiles locally

Cache directory: c:\arcgisserver\arcgiscache

☐ Use local cache directory when generating tiles on the server

A local cache directory must be configured on each SOC machine

Advanced Options... About Local Cache Directories

OK Cancel Apply

Map Service Started Automatic 0 0

Map Service Started Automatic 0 0

Map Service Stopped Manual 0 0

Map Service Started Automatic 0 0



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gis1.icao.int - Remote Desktop

ArcCatalog - ArcEditor - GIS Servers\GIS1 (admin)

File Edit View Go Geoprocessing Customize Windows Help

Location: GIS Servers\GIS1 (admin)

Catalog Tree

- Folder Connections
 - C:\\$letter
 - C:\\$letter\SLNcto correct
 - C:\7910
 - C:\AFS
 - C:\ANPfirIMS
 - C:\anpworldms
 - C:\CONTRACTSTATE
 - C:\dataextract
 - C:\diskA
 - C:\EURGAB
 - C:\flowms
 - C:\LORENZO
 - C:\nimazip
 - C:\Program Files (x86)\ArcGIS\Desktop10.0\TemplateData
 - C:\ROUTESTUDY2010
 - C:\scan
 - C:\Users\
 - C:\Users\glasnier.ICA0\Desktop
 - C:\volcano
 - C:\world_images
 - C:\worldAOP
 - C:\xfer
 - E:\Archive
 - \\tsclient\I\ACCORDEON
 - \\tsclient\I\PNB
- Toolboxes
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 - Add WMS Server
 - arcgis on services.arcgisonline.com
 - GIS1 (admin)

Contents Preview Description

Name	Type	Status	Startup	Instances Running	Instances in Use
7910SQL	Map Service	Started	Automatic	1	0
7910web	Map Service	Started	Automatic	1	0
AFI	Map Service	Started	Automatic	0	0
AIRPLANE	Map Service	Started	Automatic	1	0
AISAIM	Map Service	Started	Automatic	1	0
ANTARCTIC	Map Service	Started	Automatic	0	0
AOP	Map Service	Started	Automatic	1	0
ARCTIC	Map Service	Started	Automatic	1	0
AUDIT	Map Service	Started	Automatic	0	0
CAEP	Map Service	Started	Automatic	1	0
CARSAP	Map Service	Started	Automatic	1	0
country	Map Service	Started	Automatic	1	0
DEPART	Map Service	Started	Automatic	1	0
ERCAN	Map Service	Started	Automatic	0	0
ETOD	Map Service	Started	Automatic	1	0
EUR	Map Service	Started	Automatic	1	0
FIRMSD	Map Service	Started	Automatic	2	0
FIRWOF	Map Service	Started	Automatic	2	0
FLOW2	Map Service	Started	Automatic	1	0
FPLEDI	Map Service	Started	Automatic	0	0
FUKUSH	Map Service	Started	Automatic	0	0
GANIS	Map Service	Started	Automatic	0	0
Geomet	Map Service	Started	Automatic	1	0
ICAOM	Map Service	Started	Automatic	1	0
ICAOTR	Map Service	Started	Automatic	1	0
ICARDS	Map Service	Started	Automatic	1	0
Language	Map Service	Started	Automatic	1	0
LIBYA	Map Service	Started	Automatic	0	0
MIDREG	Map Service	Started	Automatic	0	0
NAT	Map Service	Started	Automatic	0	0
PNB	Map Service	Started	Automatic	2	0
ROUTE	Map Service	Started	Automatic	1	0
ROUTEASIAM	Map Service	Started	Automatic	1	0
RouteMID	Map Service	Started	Automatic	0	0
SAafa	Map Service	Started	Automatic	1	0
SARWORLD	Map Service	Started	Automatic	0	0
SCAN	Map Service	Started	Automatic	2	0
SUPPS	Map Service	Started	Automatic	1	0
TRAFFICFLOW	Map Service	Started	Automatic	0	0
TRAFFICTIME	Map Service	Stopped	Manual	0	0
VOLCANO	Map Service	Started	Automatic	0	0
WGS84	Map Service	Started	Automatic	0	0
WORLDROUTE	Map Service	Started	Automatic	1	0
WORLDUSAS	Map Service	Started	Automatic	1	0

ArcGIS Server Properties

General Hosts Directories Statistics Types

Service(s): <All>

Host(s): <All>

Type: <All>

Interval: Since server startup

Show Statistics

Statistics Time Range

Start Time: 2012-11-23T21:30:52

End Time: 2013-01-11T14:15:55

Service Usage Time:

- Total number of requests: 194276
- Number of requests succeeded: 194253
- Number of requests timed out: 23
- Avg usage time: 0.919566 Seconds
- Min usage time: 0.000000 Seconds
- Max usage time: 515.856001 Seconds
- Sum usage time: 178628.398924 Seconds

Service Wait Time:

- Total number of requests: 195089
- Number of requests succeeded: 194276
- Number of requests failed: 637
- Number of requests timed out: 176

OK Cancel Apply



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gis1.icao.int - Remote Desktop

ArcCatalog - ArcEditor - GIS Servers

File Edit View Go Geoprocessing Customize Windows Help

Location: GIS Servers

Catalog Tree

- C:\anpworldms
- C:\COM
- C:\CONTRACSTATE
- C:\dataextract
- C:\diskA
- C:\ESRIDATA
- C:\EURGAB
- C:\flowms
- C:\GEMCO
- C:\LORENZO
- C:\marco
- C:\nimazip
- C:\Program Files (x86)\ArcGIS\Desktop10.0\Template
- C:\ROUTESTUDY2010
- C:\sar
- C:\scan
- C:\Users\
- C:\Users\glasnier.ICAQ\Desktop
- C:\Users\glasnier.ICAQ\Documents\ArcGIS
- C:\volcano
- C:\world_images
- C:\worldAOP
- C:\WORLDCHNS
- C:\xfer
- E:\Archive
- \\tsclient\E\ACCORDEON
- \\tsclient\E\FLOWIMS\FIRCALCULCONCLUSION
- \\tsclient\E\PN
- \\tsclient\G\Magda's Projects\flowms
- Toolboxes
- Database Servers
- Database Connections
- GIS Servers
 - Add ArcGIS Server
 - Add ArcIMS Server
 - Add WCS Server
 - Add WMS Server
 - arcgis on services.arcgisonline.com
 - GIS1 (admin)

Contents Preview Description

Name Type

Add ArcGIS Server

ArcGIS Server Properties

General Hosts Directories Statistics Types

Service(s): <All>

Host(s): <All>

Type: <All>

Interval: Since server startup

Show Statistics

Statistics Time Range

Start Time: 2013-03-22T11:38:47

End Time: 2013-04-26T13:50:00

Service Usage Time:

- Total number of requests: 129852
- Number of requests succeeded: 129844
- Number of requests timed out: 8
- Avg usage time: 1.010351 Seconds
- Min usage time: 0.000000 Seconds
- Max usage time: 539.132000 Seconds
- Sum usage time: 131188.016294 Seconds

Service Wait Time:

- Total number of requests: 130263
- Number of requests succeeded: 129852
- Number of requests failed: 291
- Number of requests timed out: 120

OK Cancel Apply

Start

FLU7N22012ONLYF1...

ArcCatalog - ArcEd...

EN

1:50 PM 4/26/2013



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ArcCatalog - ArcEditor - GIS Servers

File Edit View Go Geoprocessing Customize Windows Help

Location: GIS Servers

Catalog Tree

- C:\anpworldims
- C:\COM
- C:\CONTRAcSTATE
- C:\dataextract
- C:\diskA
- C:\ESRIDATA
- C:\EURGAB
- C:\flowims
- C:\GEMCO
- C:\LORENZO
- C:\marco
- C:\nimazip
- C:\Program Files (x86)\ArcGIS\Desktop10.0\Template
- C:\ROUTESTUDY2010
- C:\sar
- C:\scan
- C:\Users\
- C:\Users\glasnier.ICAQ\Desktop
- C:\Users\glasnier.ICAQ\Documents\ArcGIS
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- C:\world_images
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- C:\WORLDGNS
- C:\xfer
- E:\Archive
- \\tsclient\E\ACCORDEON
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- \\tsclient\E\IPBN
- \\tsclient\G\Magda's Projects\flowims
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- Database Connections
- GIS Servers
 - Add ArcGIS Server
 - Add ArcIMS Server
 - Add WCS Server
 - Add WMS Server
 - arcgis on services.arcgisonline.com
 - GIS1 (admin)

Contents Preview Description

Name	Type
Add ArcGIS Server	
Add ArcIMS Server	
Add WCS Server	
Add WMS Server	
arcgis on services.arcgisonline.com	ArcGIS Server http://services.arcgi...
GIS1 (admin)	ArcGIS Server GIS1

ArcGIS Server Properties

General Hosts Directories Statistics Types

Service(s): ICARDSLNC

Host(s): <All>

Type: <All>

Interval: Since server startup

Show Statistics

Statistics Time Range

Start Time: 2013-03-22T11:38:47

End Time: 2013-04-26T13:53:13

Service Name: ICARDSLNC

Service Type: MapServer

Service Usage Time:

- Total number of requests: 12795
- Number of requests succeeded: 12795
- Number of requests timed out: 0
- Avg usage time: 1.908372 Seconds
- Min usage time: 0.000000 Seconds
- Max usage time: 211.679998 Seconds
- Sum usage time: 24417.619085 Seconds

Service Wait Time:

- Total number of requests: 12887
- Number of requests succeeded: 12795

OK Cancel Apply

Start

FLUH7N2012ONLYFI...

ArcCatalog - ArcEd...

EN

1:53 PM
4/26/2013



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ICAO GIS Big Data ESRI UC 2014

Big Data and Analytics

Big Data and Analytics with ArcGis

Big Data and Analytics in Practice



Big Data

600 - Big Data and Analytics: The Fundamentals

Speakers: Erik Hoel, Mark Janikas, Michael Park

We will present an overview of big data and analytic applications—this involves a discussion of common use cases, architectural patterns, and relevant technologies.

602 - Big Data and Analytics with ArcGIS

Speakers: Erik Hoel, Mark Janikas, Michael Park

This workshop is intended for people who have an understanding of the big data space—this includes common use cases and how solutions may be architected. We will discuss in greater depth the open-source GIS tools for Hadoop, as well as the technology that will be released as part of ArcGIS.

604 - Big Data and Analytics in Practice

Speakers: Mansour Raad

This tech session will be fast-paced. It will describe a cool, real-world problem, discuss some of the technologies used, followed by a discussion of how it was architected.

[Top of Track](#)

[Top of Page](#)

Geodatabase

608 - Automating Geodatabase Creation with Geoprocessing Tools

Speakers: Russell Brennan, Ian Wittenmyer

Topics discussed in this session will include creating model tools, creating script tools, how to organize your ModelBuilder environment for schema creation, using scripts to read information from tables, automating schema changes ; pros and cons of various methods of schema creation.

621 - Geodatabase: An Introduction

Speakers: Jonathan Murphy, David Crawford

This session will explain what a geodatabase is and why you would want to

763 - Managing Your Distributed Geodatabase

Speakers: Gary MacDougall, Heather McCracken

This session will describe data distribution techniques, focusing mainly on geodatabase replication. Geodatabase replication allows you to distribute copies of your data across two or more geodatabases. With geodatabase replication, you can edit the geodatabases independently and synchronize them as needed.

764 - Topology in The Geodatabase: An Introduction

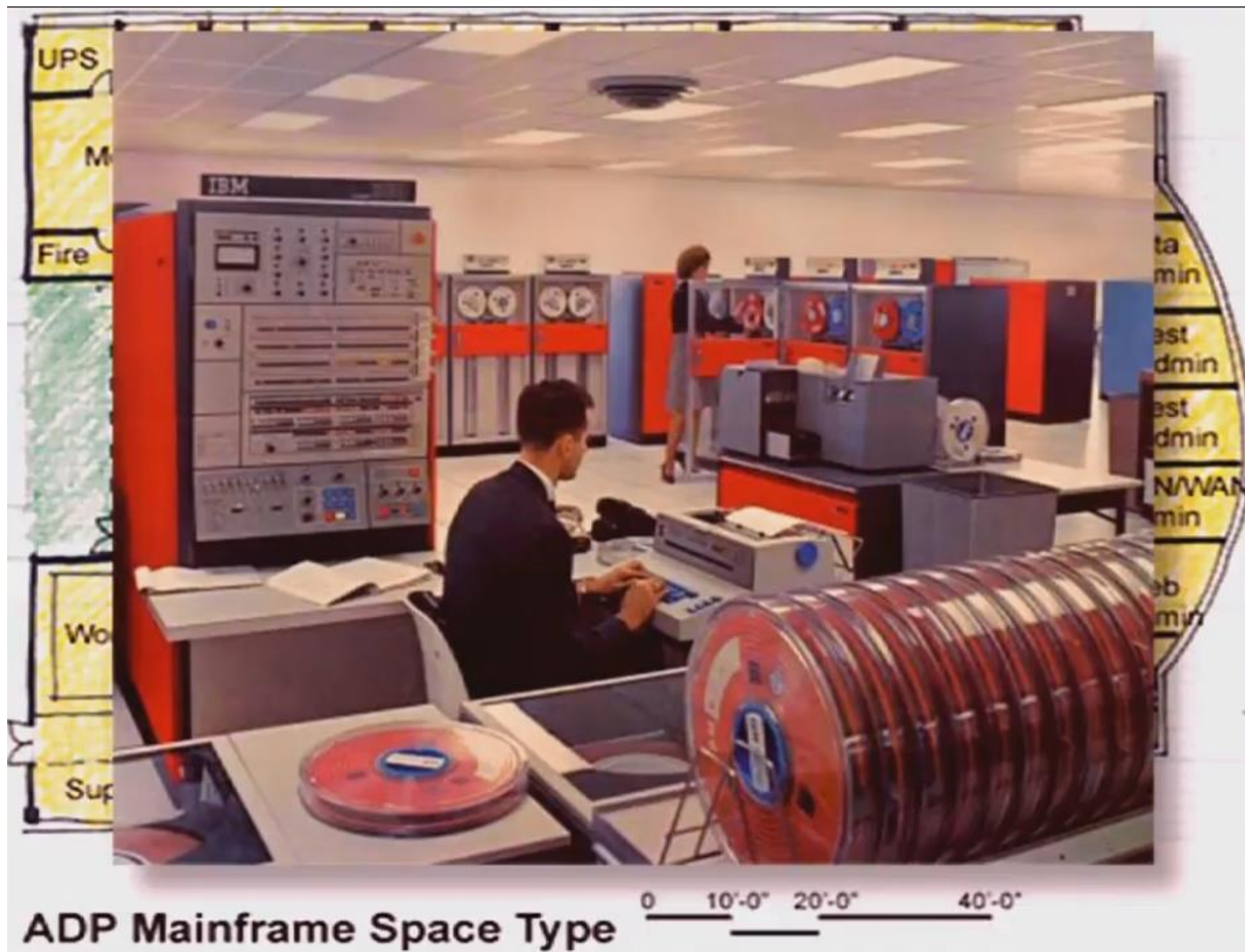
Speakers: Erik Hoel, Colin Zwicker

This session will describe how topologies in the geodatabase are defined and



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ADP Mainframe Space Type

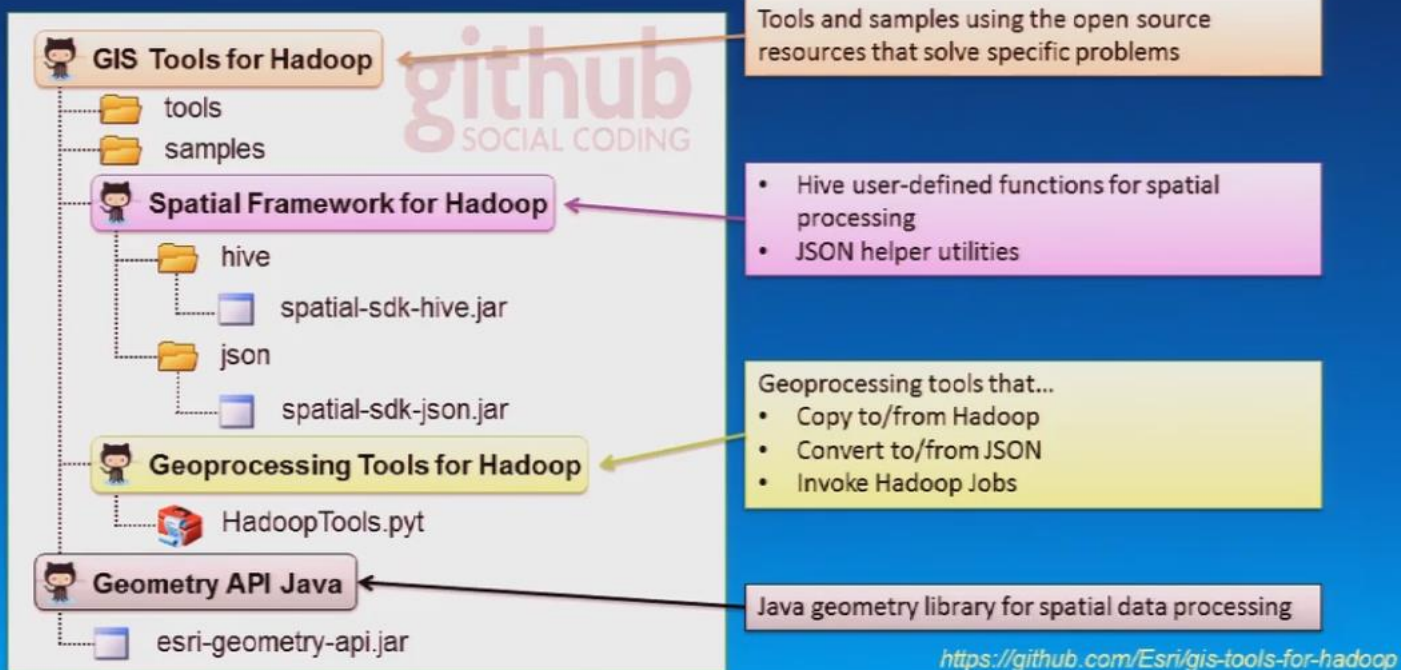
Until Now...

- Google implemented their enterprise on a distributed network of many nodes, fusing storage and processing into each node
- Hadoop and HDFS are open source implementations of the framework that Google has built their business around for many years



GIS Tools for Hadoop

Esri on GitHub





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Spatial Aggregation

Why it's important

- Mapping millions to billions of points in a small, dense area just isn't feasible
 - It's slow
 - It's difficult to identify patterns





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GIS Tools for Hadoop 2.0

- Significant improvements in performance of certain types of Hive queries
 - Point in polygon aggregation query takes **4 minutes** on 175 million points
 - Previously took **75 minutes**

Big Data ST_Geometry Queries up to 20X Faster in Hive

by Jonathan Murphy on July 10, 2014

Share

4

Tweet

85

Share

87

The Big Data development team at Esri is excited to announce a major performance speedup in `ST_Geometry` for Hive, which is part of Esri's open-source `Spatial Framework for Hadoop`. The amount of performance gain depends on the type of spatial query run and on the size of the table in Hive. The biggest gain comes with `relational operations` such as `ST_Contains` and `ST_Overlaps`. In general, the performance gain will be greater with larger tables — exactly where it helps the most.

In testing by the developer, queries ran 3 to almost 20 times as fast on the new version of the Spatial Framework, as compared to the previous version. Specifically, as shown in the chart, the query from the `point-in-polygon aggregation sample`, on 173 million points of New York City taxi cab data, ran about 20 times as fast in the updated version.

```
SELECT counties.name, count(*) cnt FROM counties
JOIN taxi_trips
WHERE ST_Contains(counties.boundaryshape, ST_Point(taxi_trip
GROUP BY counties.name
ORDER BY cnt desc;
```

http://blogs.esri.com/esri/arcgis/2014/07/10/big-data-st_geometry-queries-up-to-20x-faster-in-hive/

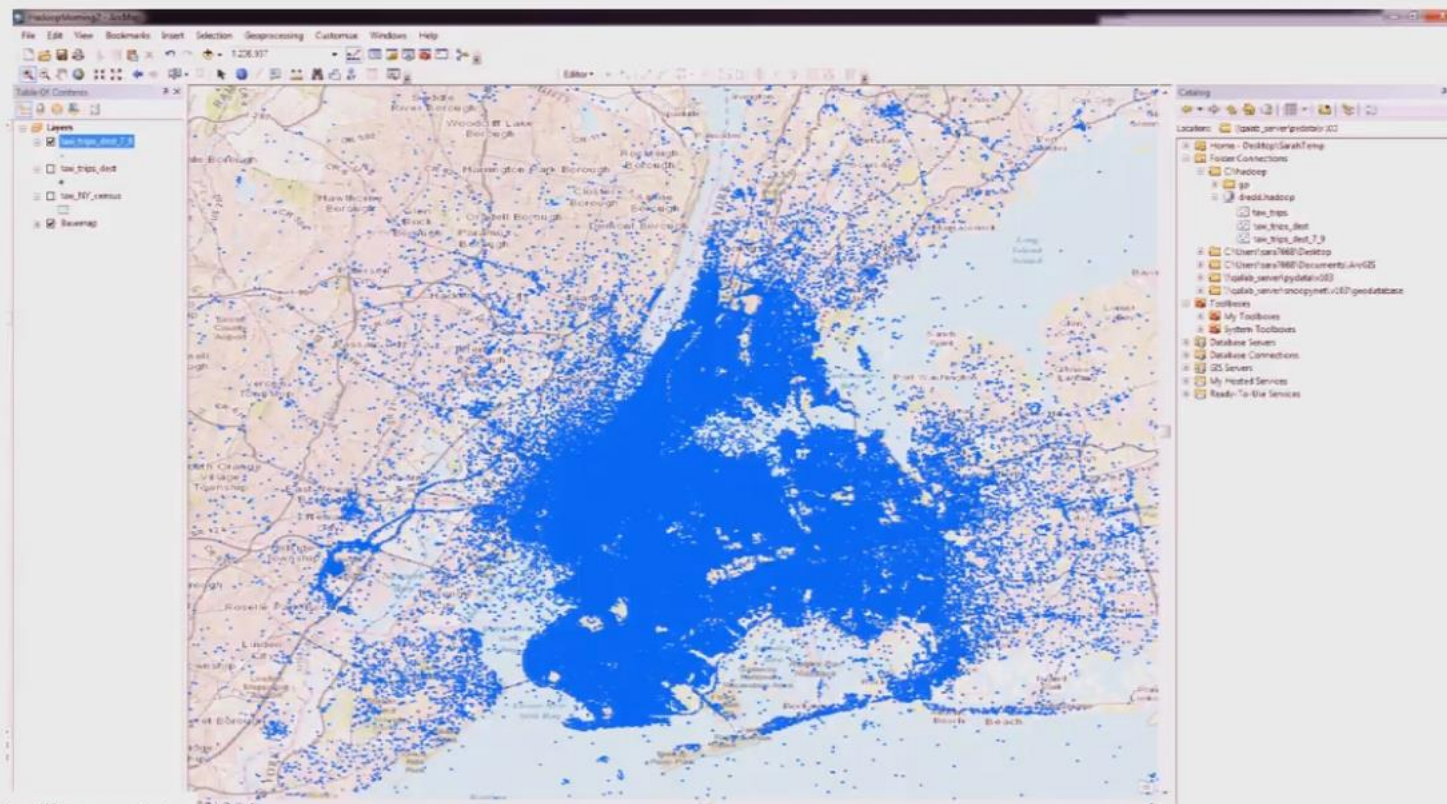
170 million records of NYC taxi from 2013

Each record contains:

Pickup and drop-off location (lat, long)

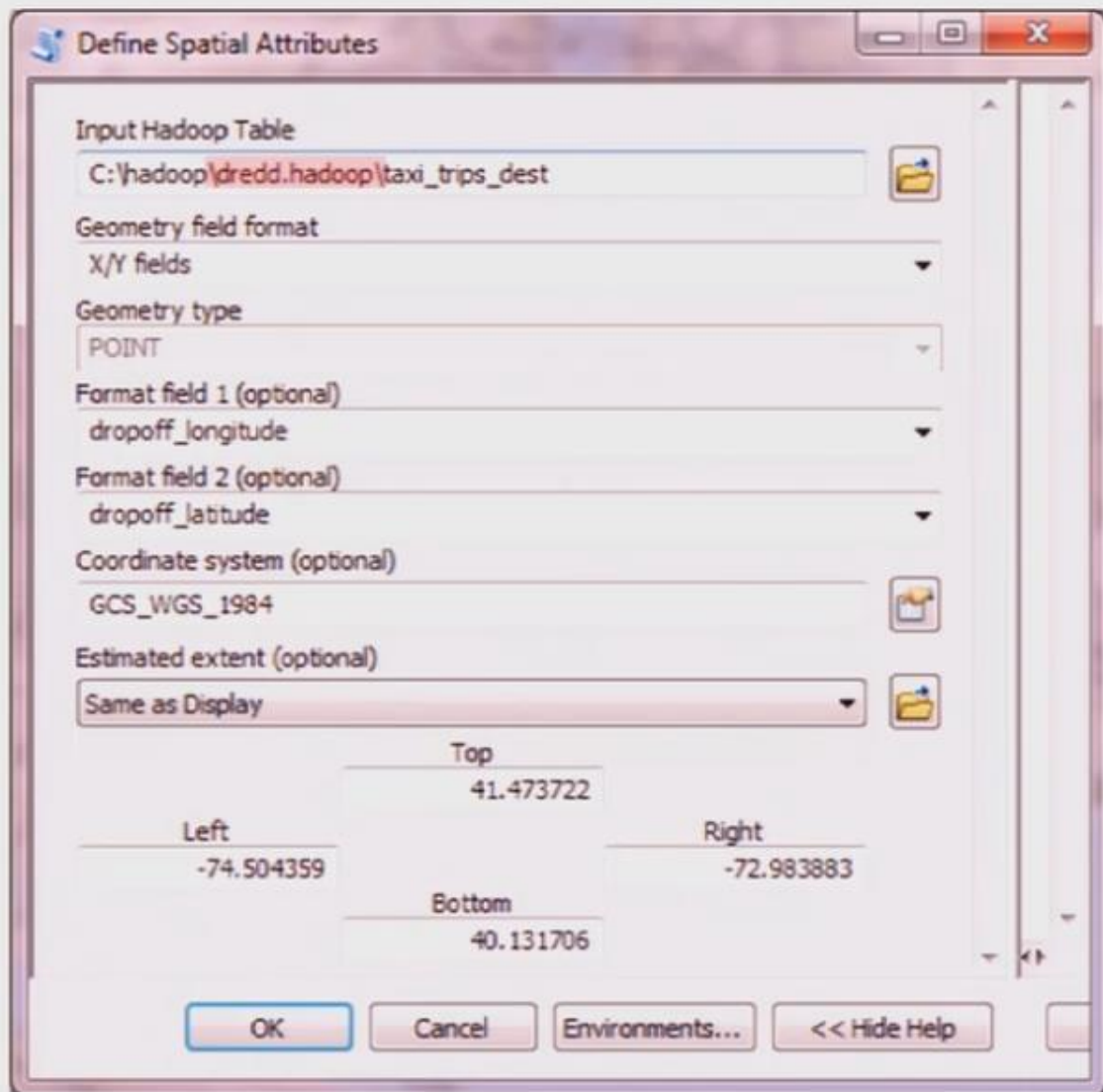
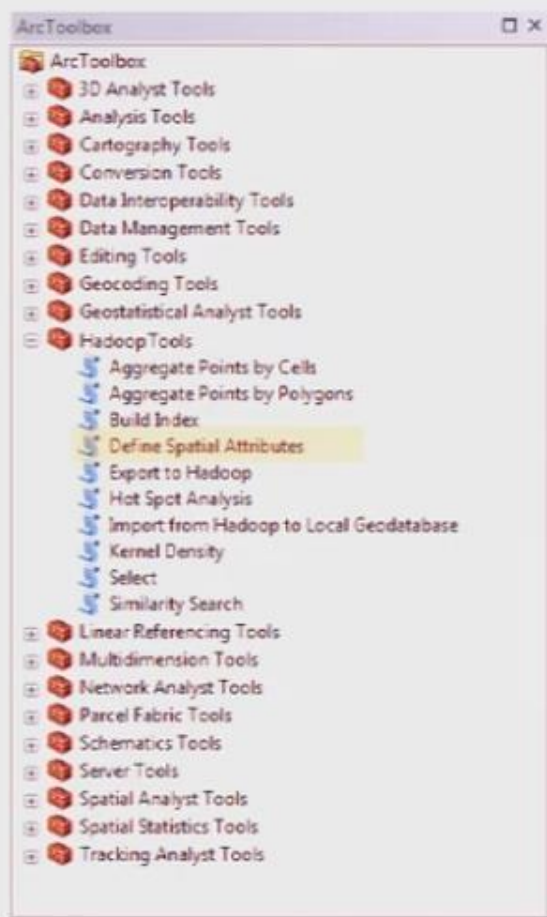
Pickup and drop-off time, Passenger count

Distance and time travelled

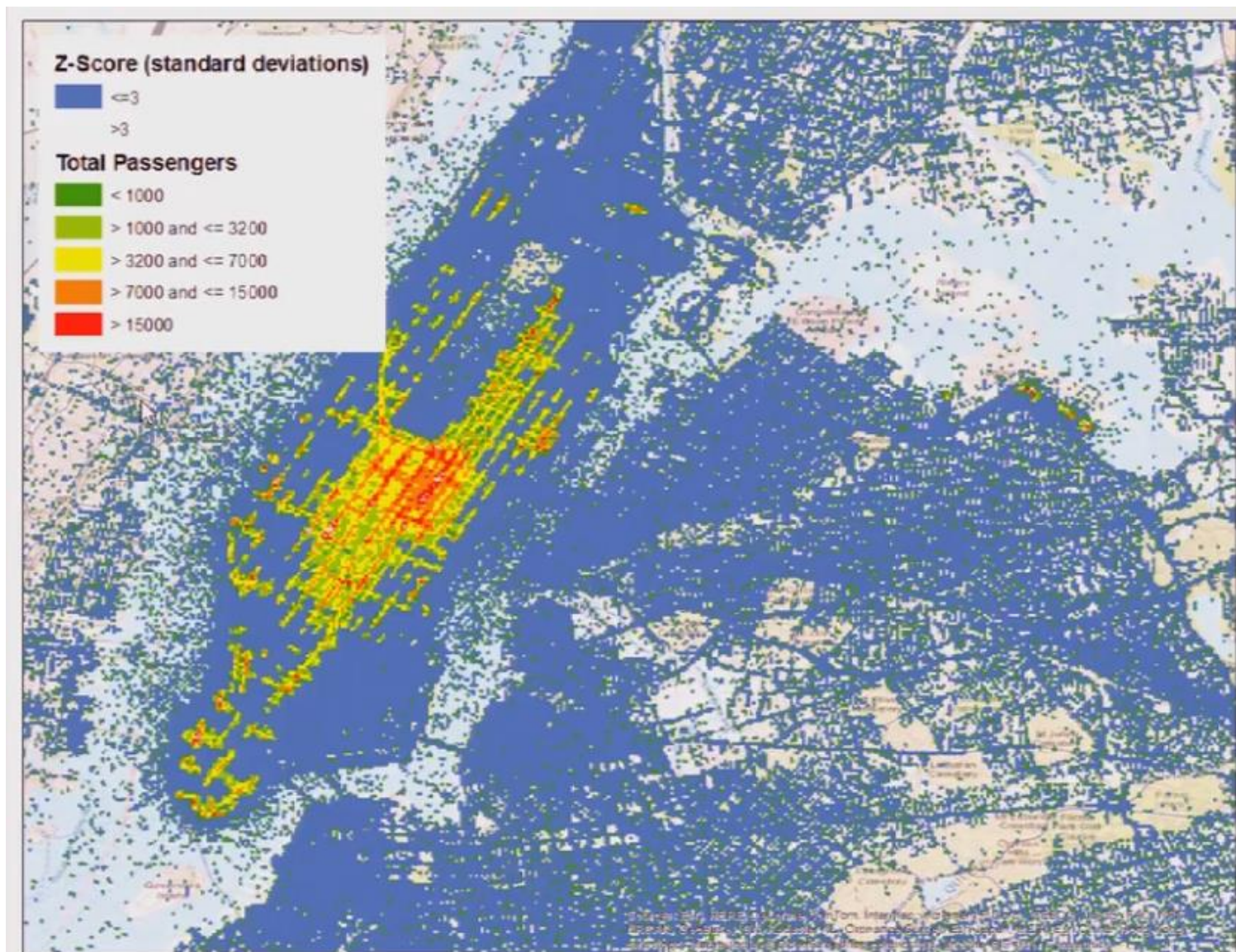


~30 million points

~ 5 mins to draw



GIS Analyst to determine the best shuttle route, best pickup and drop-off location





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Conclusions:

There are ~21 million taxis arriving at their drop-off between 5 and 7 pm 2013

Most of these taxis are arriving in Manhattan

We are in LaGuardia

We determined that one of the most popular pickup for taxis heading to Le Gardia is from the Manhattam Cruise Terminal to LaGuardia

Without Hadoop and Arcgis capabilities, the shuttle company would not have been able to mine this data to determine a shuttle route

www.esriurl.com/spatialstats

Spatial Statistics Resources

by Irosenshein on July 13, 2010

The [Spatial Statistics toolbox](#) contains statistical tools for analyzing spatial distributions, p
may be similarities between spatial and non-spatial (traditional) statistics in terms of conc
that they were developed specifically for use with geographic data. Unlike traditional non
(proximity, area, connectivity, and/or other spatial relationships) directly into their mathem

There are a ton of resources about using and understanding Spatial Statistics, and here c

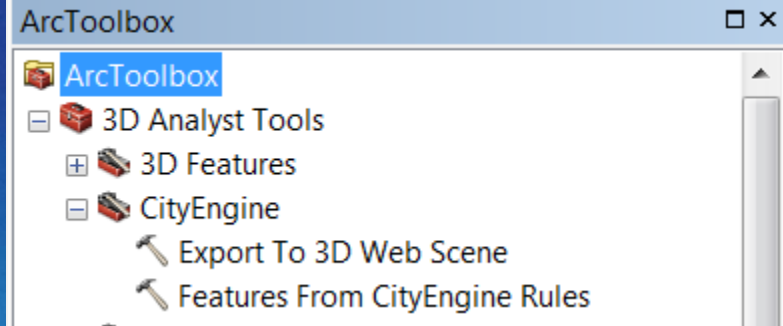
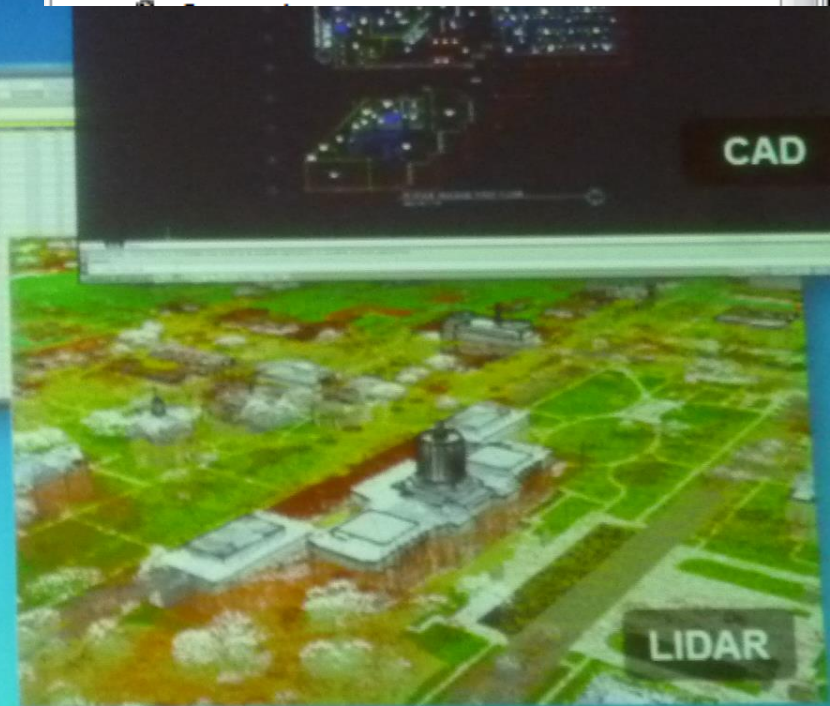
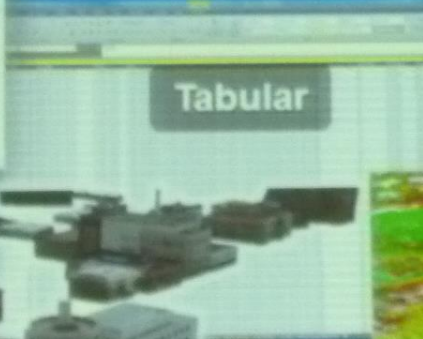
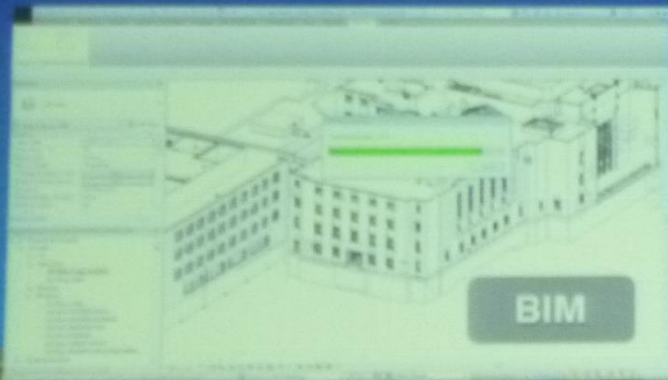


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Photo from UC2014 CityEngine

Step 1: Oregon Data Prep

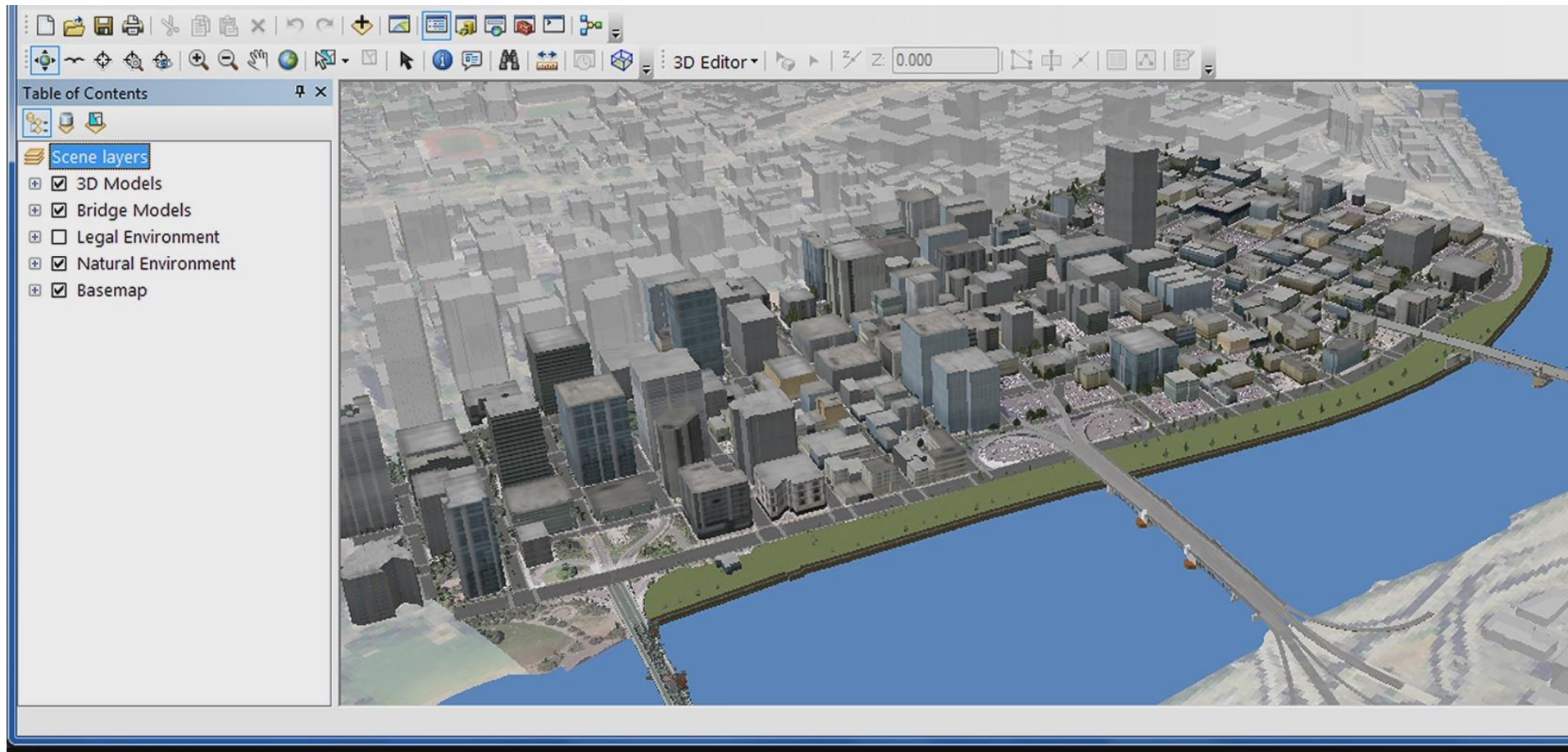




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3Dcityscene ArcScene to CityEngine Web Viewer



Portland 3D



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Geographic information systems invade big data

By Drew Robb - [Tech Page One](#) Jul 28 2014

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Geographic information systems (GIS), which are best known for their mapping functions, are invading big data. These systems have reached new levels through their ability to provide locational context to vast pools of information.

GIS can now isolate patterns, adjust strategies and pinpoint the biggest opportunities for businesses.

“Much of the discussion on big data is focusing on volume — the hours of video on the Web, social media interactions — but the challenge is to present the ocean of data as a pool of useful facts,” said Simon Thompson, director of commercial solutions at GIS vendor [Esri](#). “GIS is a natural way to connect data, control its size and make it more relevant and usable.”



The biggest users of GIS so far have been government planners and policy makers, said Matt Felton, president of Datastory

Businesses such as Shell, [General Motors](#), Walmart, Starbucks and Nike are now using this potent technological combo better to understand customer behavior and align marketing campaigns to buying patterns.

GIS can convert data into maps, which makes it easier to visualize trends than via a spreadsheet. “Geography is one of the most natural, logical and intuitive ways to discover, visualize, overlay, compare, slice, sort and apply big data to a problem,” said Thompson.

But it’s telecommunications companies that have been making the most significant use of GIS. Paul Ramsey, vice president, product management, at open-source geospatial software and services vendor [Boundless](#), said that geographic locations have become a key element in analyzing new data streams because mobile devices are constantly changing positions. This has required companies to look with increasing scrutiny at where consumers are downloading information and photos and making purchases.

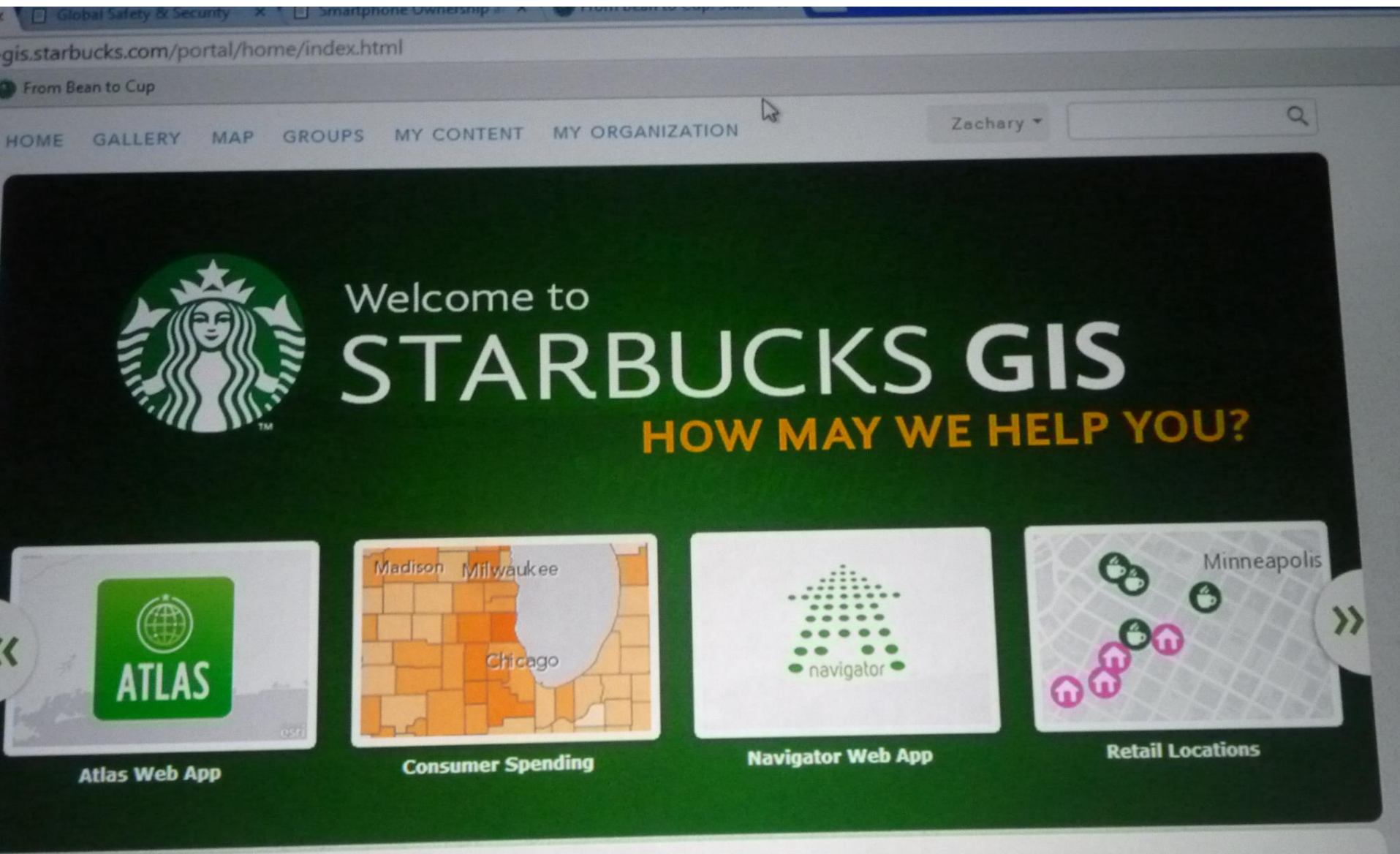
“GIS used to be about the analysis of relatively static institutional data, but new data streams mean that today’s GIS problems look very much the same as today’s big data problems: extract meaningful information from a fire hose of inputs,” said Ramsey.



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Photo from UC2014 CityEngine





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Region-Centric
Geospatial
Information

1980s



Feature-Centric
Geospatial
Information

1990s



Human-Centric
Geospatial
Information

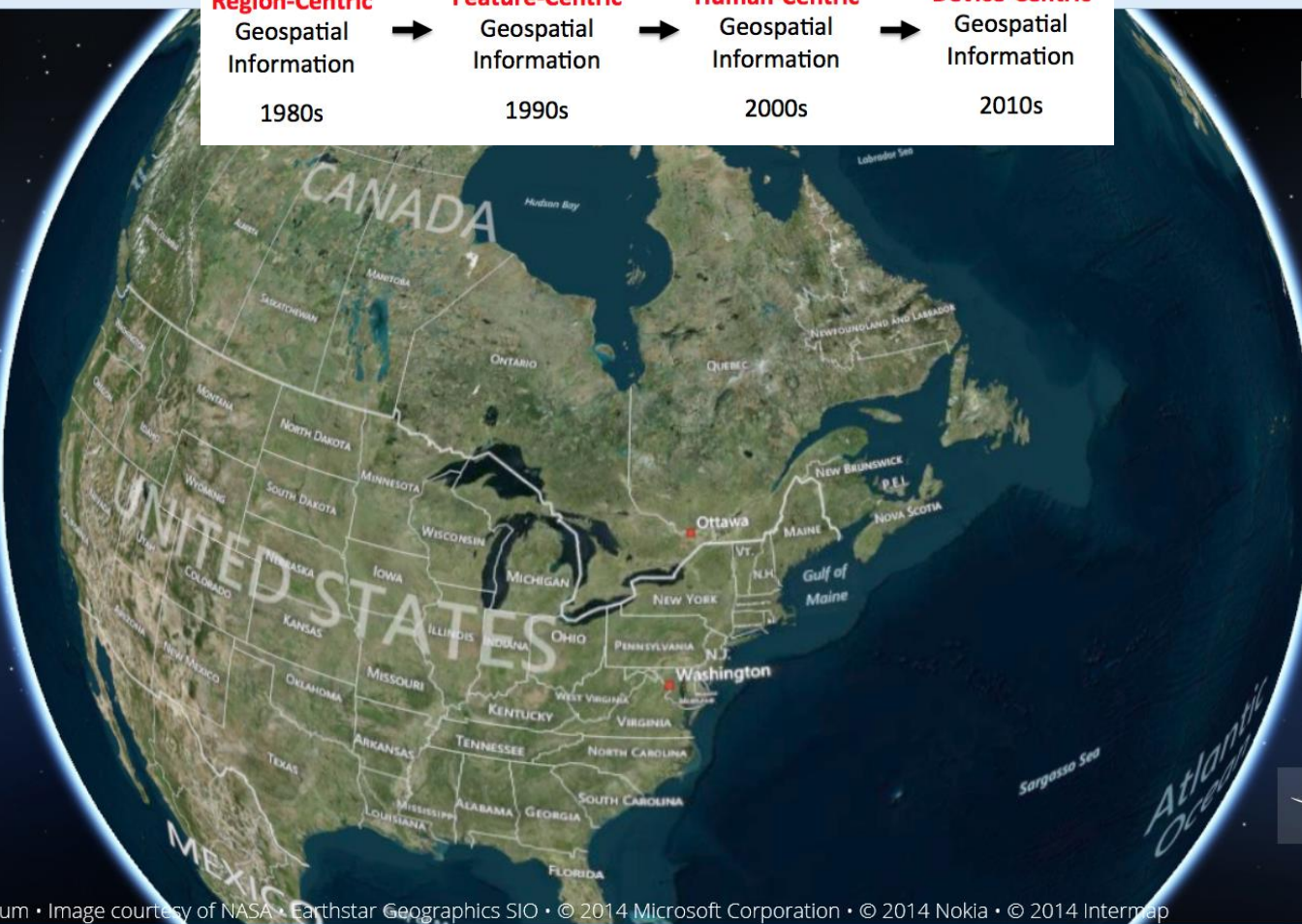
2000s



Device-Centric
Geospatial
Information

2010s

WebGL Earth



Find a place...

Bing Maps - Aerial with labels

Prepare your
data with



MapTiler



JavaScript API



GitHub



KLOKANT
TECHNOLOGIES





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tileserver.maptiler.com/#weather/gmapsmaptiler

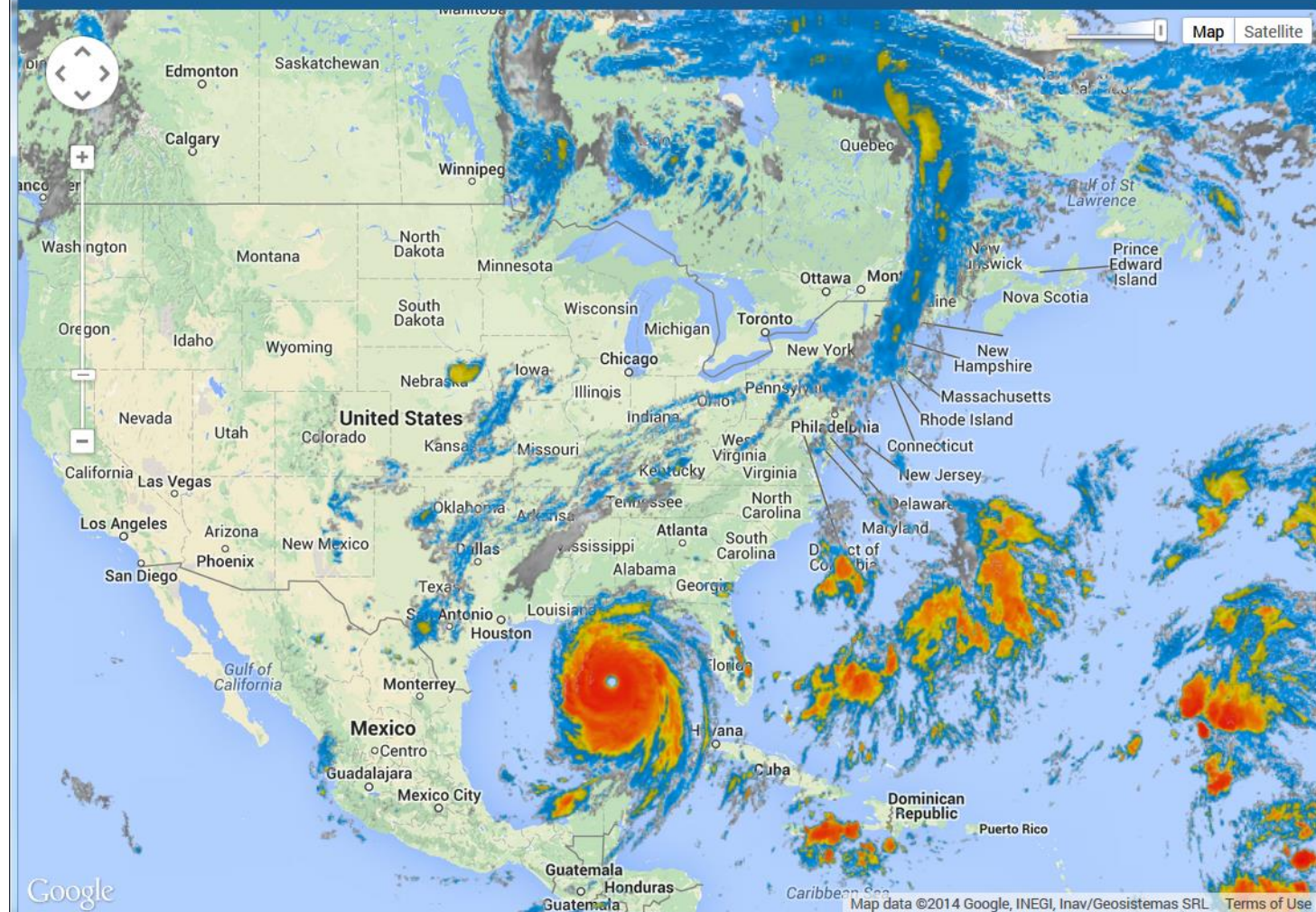


WEBGL EARTH



TileServer

Maps served from pre-rendered tiles



Use on the web

Embed this map in your website or use it in

Google Maps API

The most popular mapping API.

[Preview the map](#) [Source code](#) [API Docs](#)

Google Maps API (Klokantech)

Added client side overzooming and opacity s

[Preview the map](#) [Source code](#) [API Docs](#)

Leaflet

Open-source JavaScript library for interacti

[Preview the map](#) [Source code](#) [API Docs](#)

WebGL Earth

3D digital globe for web and mobile devices.

[Preview the map](#) [Source code](#) [API Docs](#)

OpenLayers

Powerful open-source JavaScript mapping li

[Preview the map](#) [Source code](#) [API Docs](#)

OpenLayers 3

A high-performance, feature-packed library f
mapping needs.

[Preview the map](#) [Source code](#) [API Docs](#)

MapBox JS

Simple mapping API powered by Leaflet.

[Preview the map](#) [Source code](#) [API Docs](#)

ArcGIS API for JavaScript

Framework for building lightweight Web map
applications on top of ArcGIS Server.

[Preview the map](#) [Source code](#) [API Docs](#)

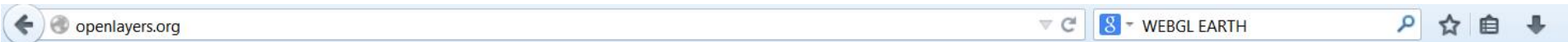
Google

Map data ©2014 Google, INEGI, Inav/Geosistemas SRL. Terms of Use



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OpenLayers 3

Learn Examples API Code



A high-performance, feature-packed library for all your mapping needs.

LATEST

OpenLayers 3.0 is here! Check out the [docs](#) and the [examples](#) to get started. The full distribution can be downloaded from the [v3.0.0 release page](#).

If you've come here looking for OpenLayers 2.x information, you'll find everything you need on the [2.x page](#).

FEATURES

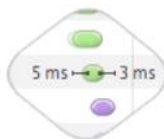
Tiled Layers

Pull tiles from OSM, Bing, MapBox, Stamen, MapQuest, and any other XYZ source you can find. OGC mapping services and untiled layers also supported.



Fast & Mobile Ready

Mobile support out of the box. Build lightweight custom profiles with just the components you need.



Vector Layers

Render vector data from GeoJSON, TopoJSON, KML, GML, and a growing number of other formats.

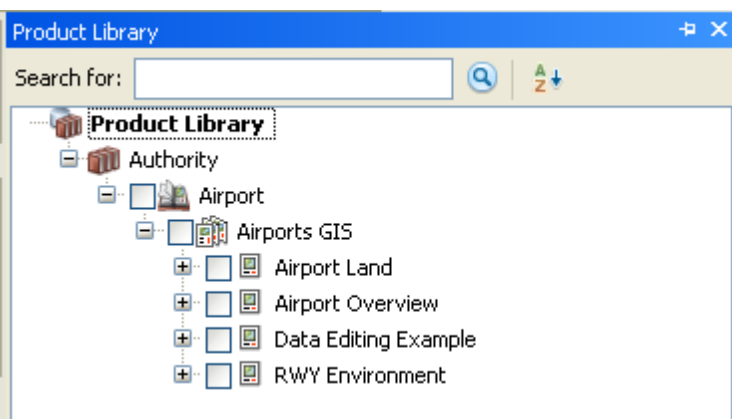


Cutting Edge & Easy to Customize

Map rendering leverages WebGL, Canvas 2D, and all the latest greatness from HTML5. Style your map controls with straight-forward CSS.



Overview of ICAO works: Aviation Accidents with GIS and tools

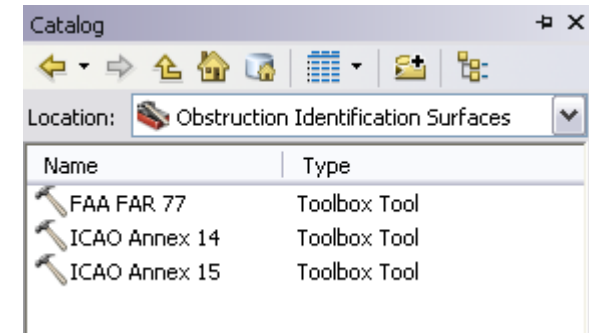


AF447

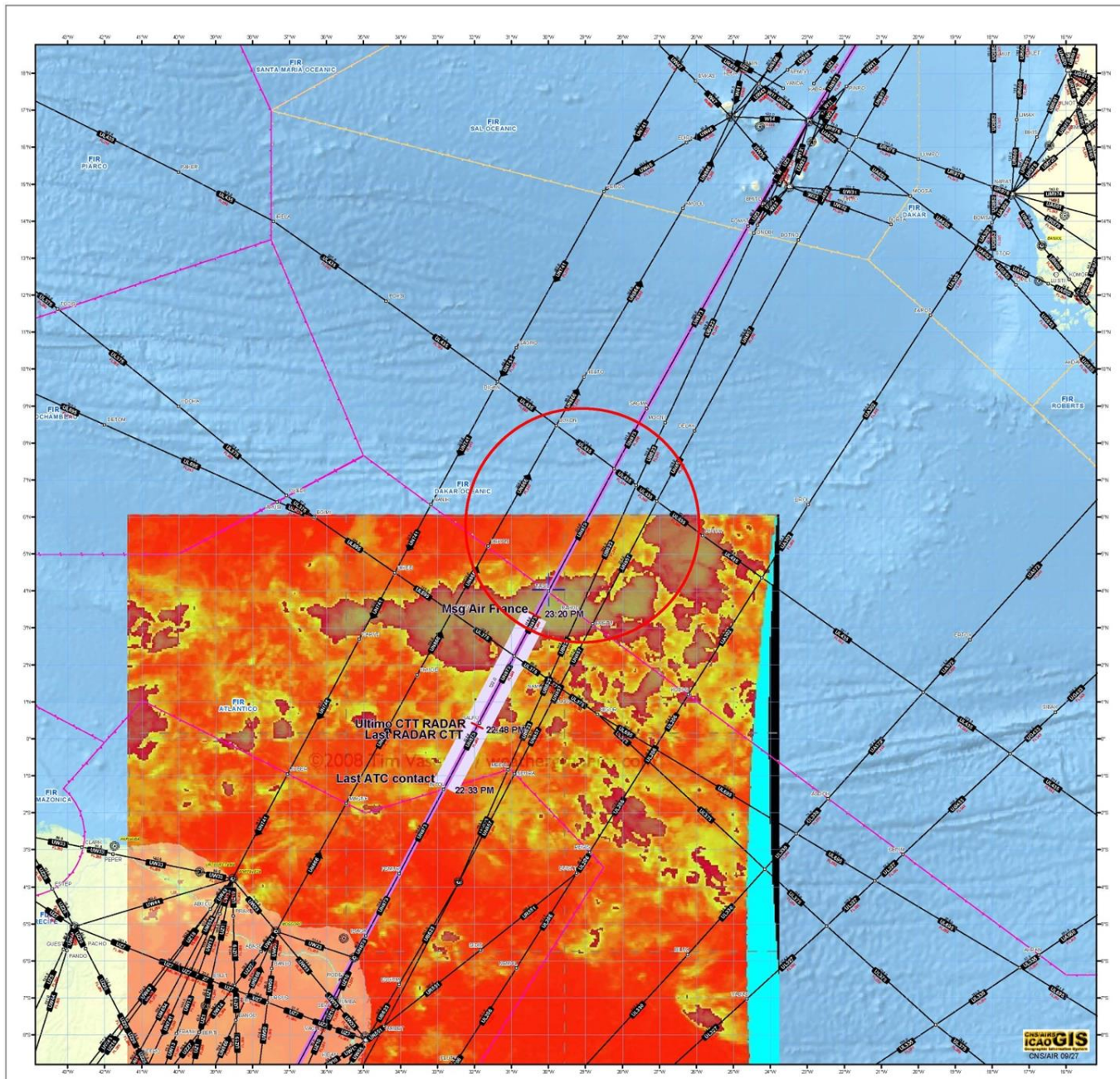
MH370

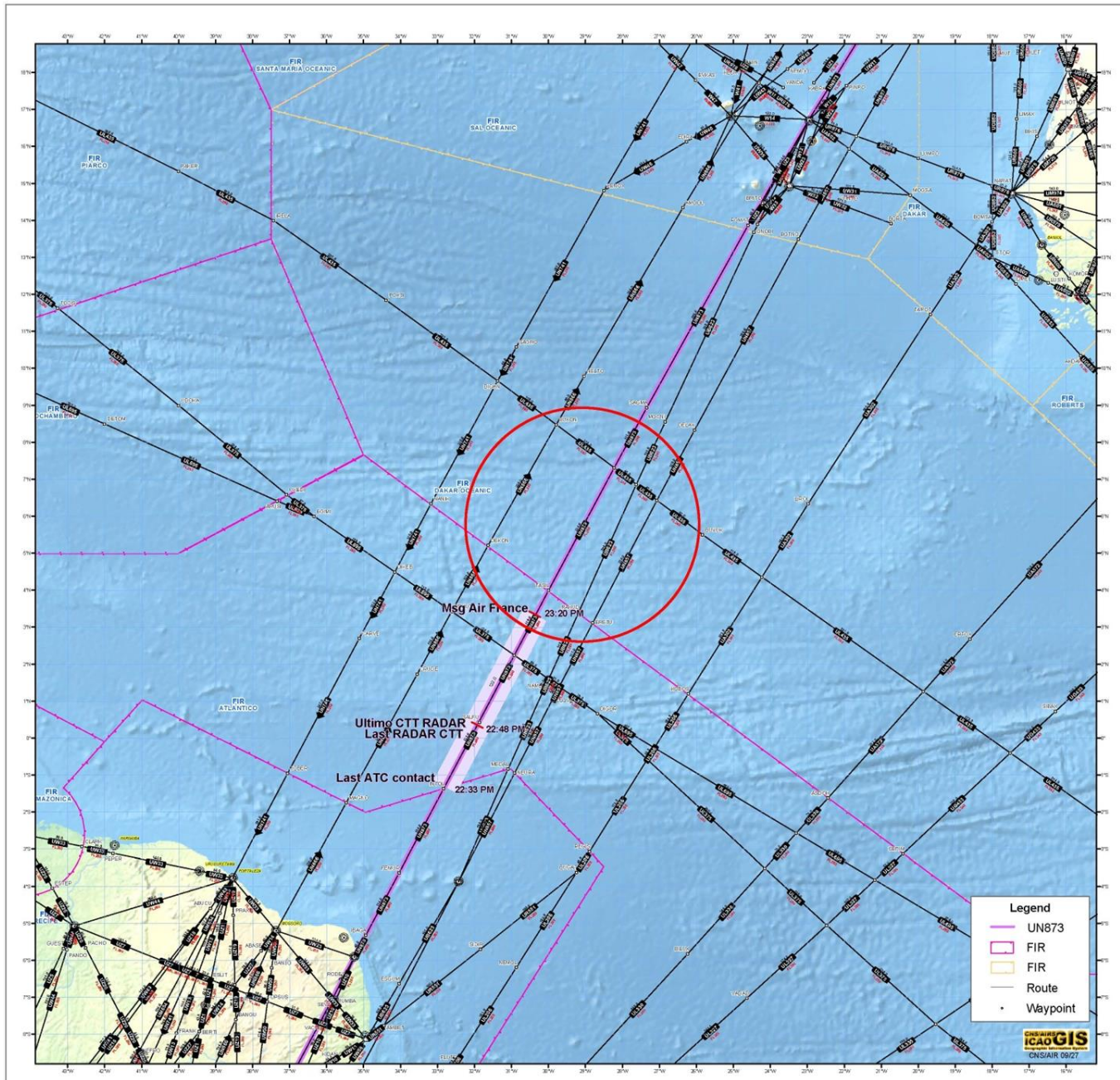
Network analyst

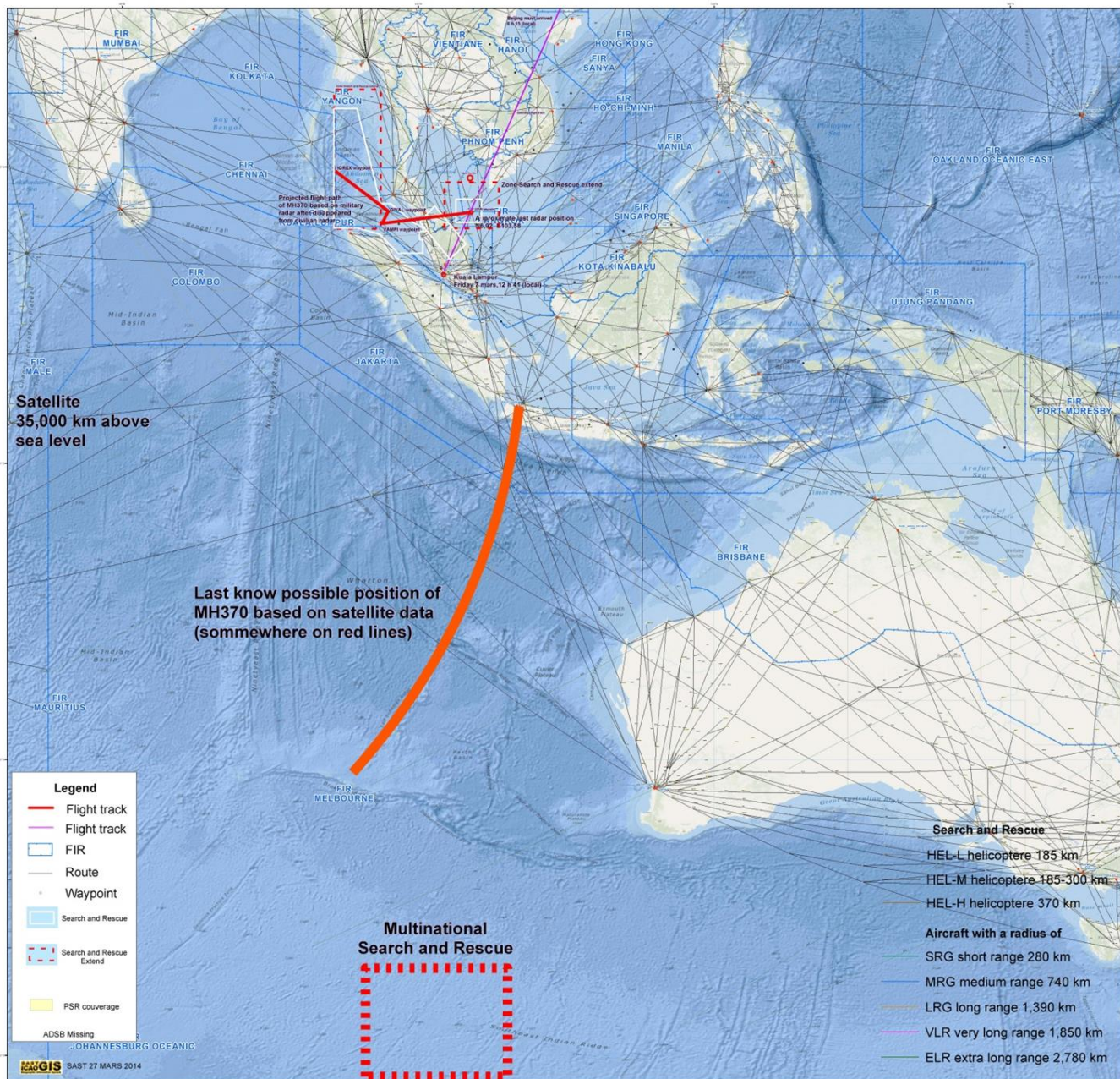
Model Builder

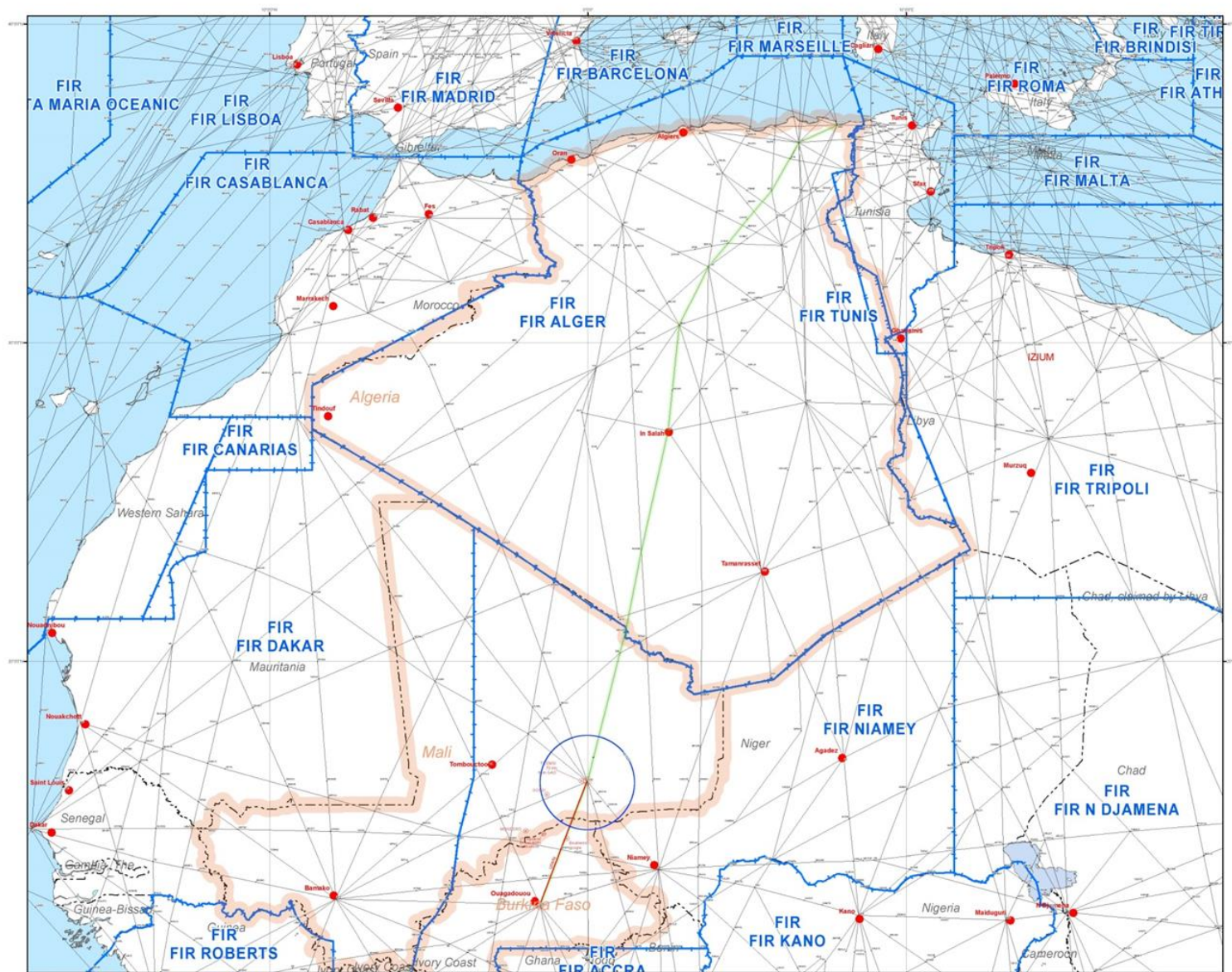


Contingency and usual work like
EBOLA, Volcanoes, Conflicts



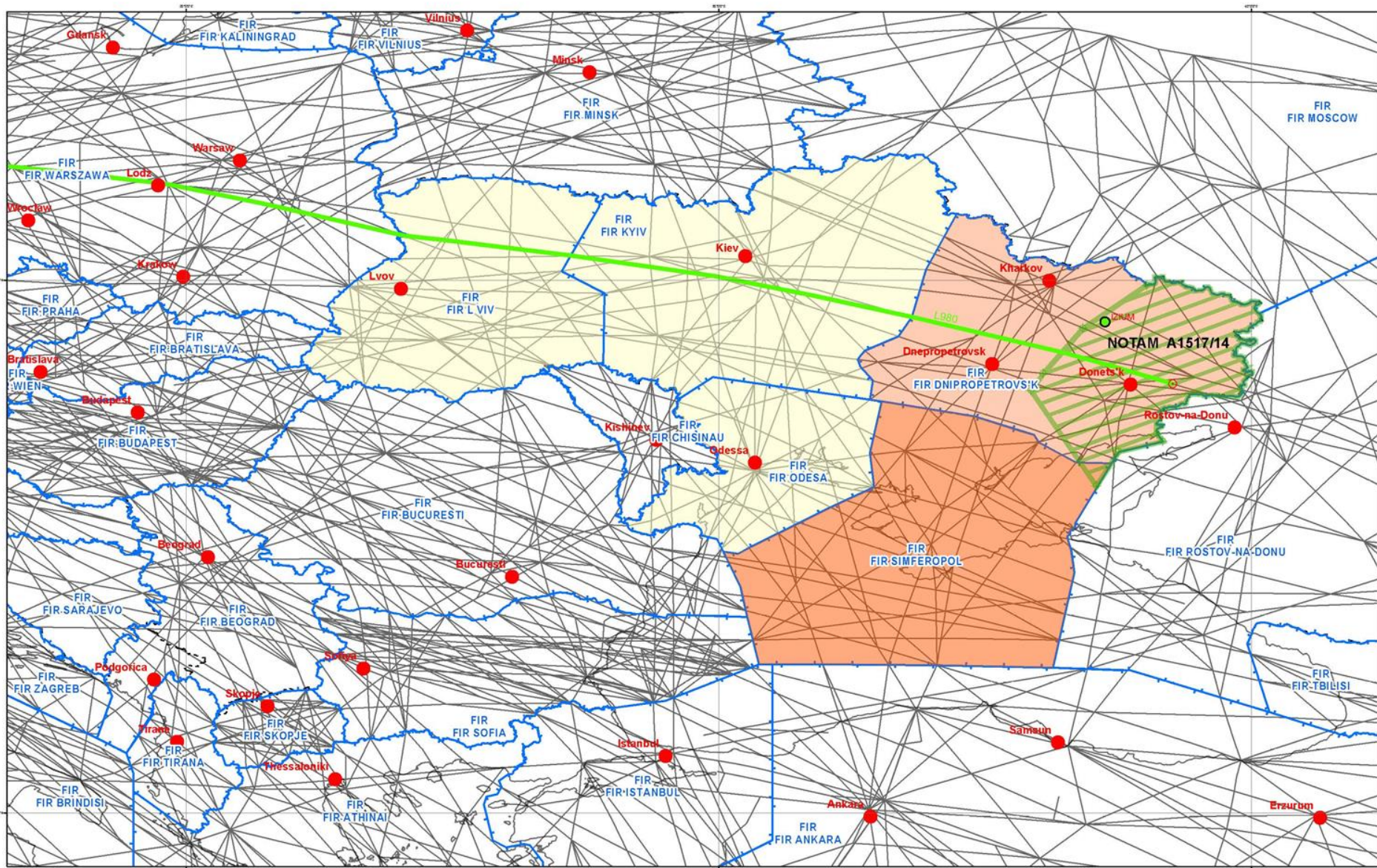






AIR ALGERIE AH5017, July 24 2014.

25/07/2014 version



Malaysia Airline MH17, July 17 2014.

22/07/2014



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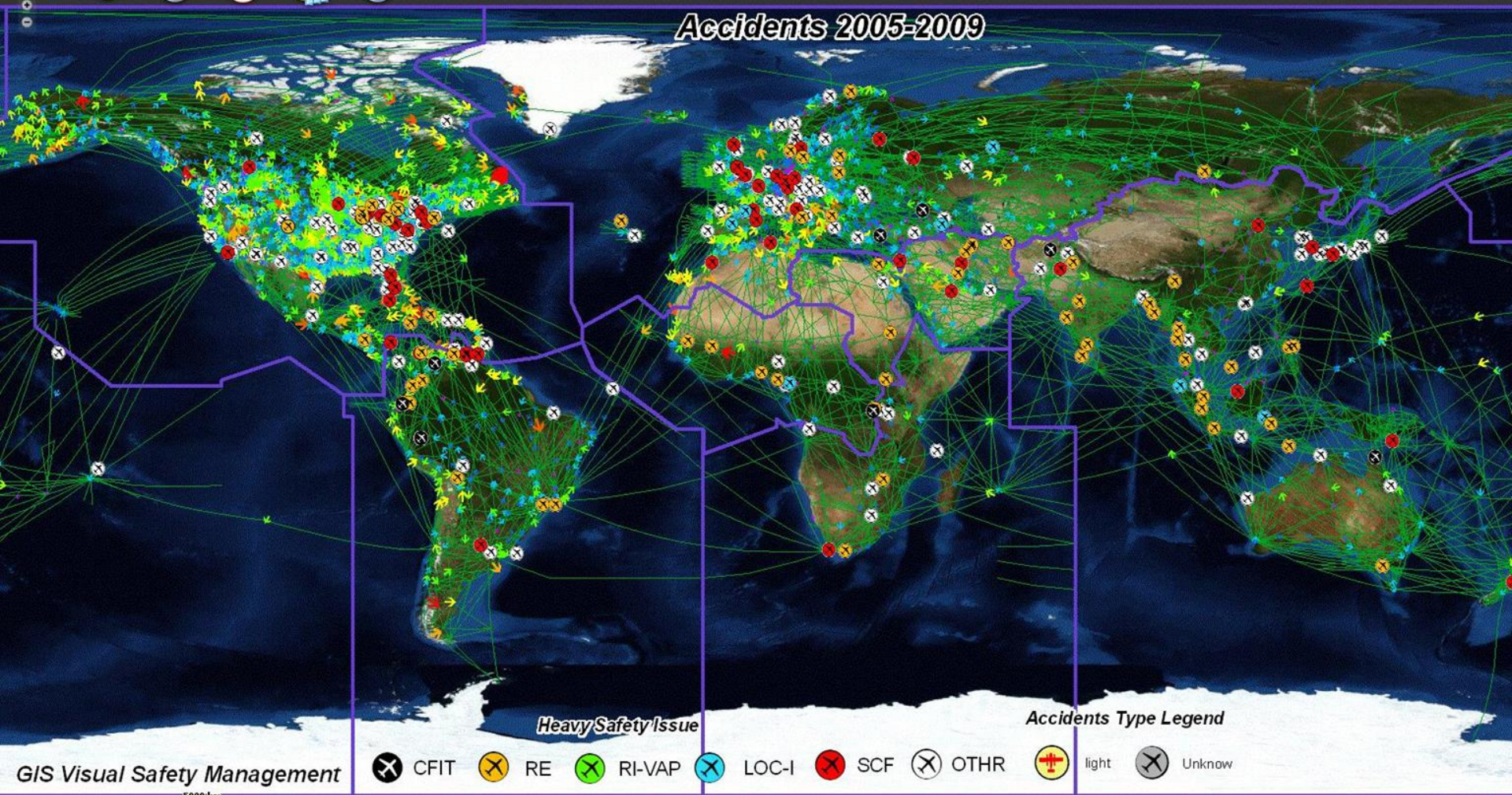
Safety Intelligent Metric Concept(SIMC)

ICAO ArcGIS Server 9.3 Flex Api

Current Action: Move Map



Accidents 2005-2009



Heavy Safety Issue

Accidents Type Legend



CFIT



RE



RI-VAP



LOC-I



SCF



OTHR



light



Unknown

GIS Visual Safety Management

5000 km

4000 mi

POWERED BY
ESRI



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192.206.28.81 - Remote Desktop

Rich Spatial Flex Viewer - Windows Internet Explorer

C:\inetpub\wwwroot\Flexgii\FlexViewer\bin-debug\index.html

File Edit View Favorites Tools Help

Rich Spatial Flex Viewer

Flex Navigator

- FlexViewer
 - bin-debug
 - doc
 - html-template
 - libs
 - src
 - com
 - esri
 - sol

Outline

An outline is not available.

Salinas 2.52

HP S

Manager (2)

Done

My Computer

100%

11:06 AM

Safety Intelligent Metric Concept (SIMC)

ICAO ArcGIS Server 9.3 Flex Api

Current Action: Move Map

ACCIDENTS Search

Safety Layers

Layer Visibility

- ☒ Bathymetric Contours (1:1,000,000)
- ☒ Bathymetric Contours (1:20,000,000)
- ☒ 1min GEBCO Bathymetry
- ☒ 1min GEBCO Bathymetry Hillshade
- ☒ 1min GEBCO Bathymetry Grid
- ☐ 30sec GEBCO Bathymetry

300 km

200 mi

POWERED BY ESRI

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>Statistic</

undation/GEE
t/services/E
ORLDRROUTE/Ms
GIS/rest/ser
CO/MapServer

nu="true">zc
menu="true">
tcutmenu="tr
="true">pan<

- ATS NOTAM
- ★ SIG NOTAM
- NEW ROUTE GREEN
- CLOSED ROUTE RED
- RESTRICTED ROUTE ORANGE
- CLOSED AREA VIOLET

- ATS CONT
- SIG CONT
- SCENARIO 1 GREEN
- SCENARIO 2 ORANG
- SCENARIO 3 BLUE
- SCENARIO 4 VIOLET (RED) before
- SCENARIO 5 YELLOW
- SCENARIO 6 PINK

Legend

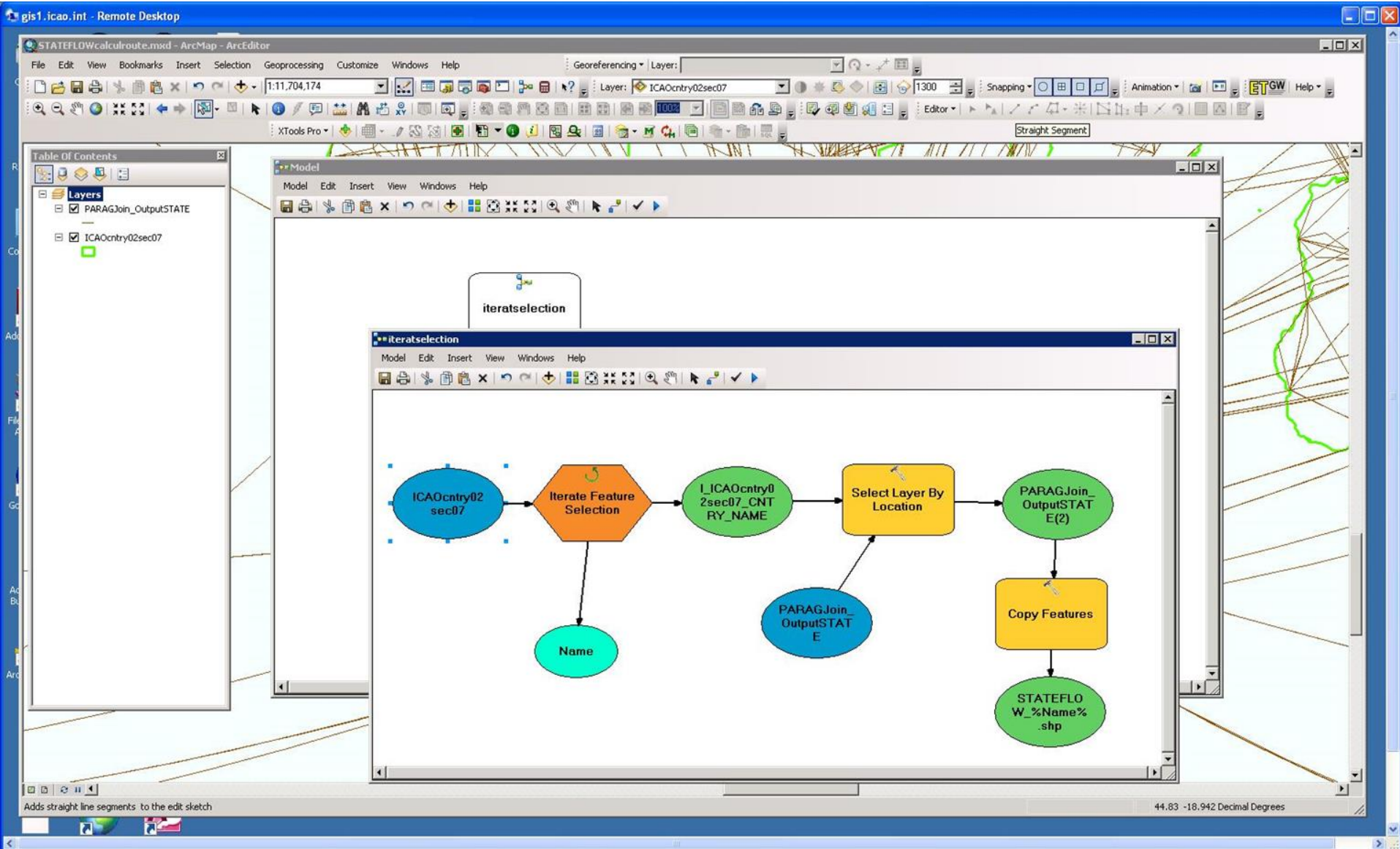
- Iraq
- atmsid
- sigmid
- MidRoute
- ATSAFI
- SIGAFI
- RouteAti
- asiatsid
- asiatsig
- RouteAsia
- ATSEUR
- SIGEUR
- RouteEur
- Political Boundaries



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Geoprocessing using model Builder

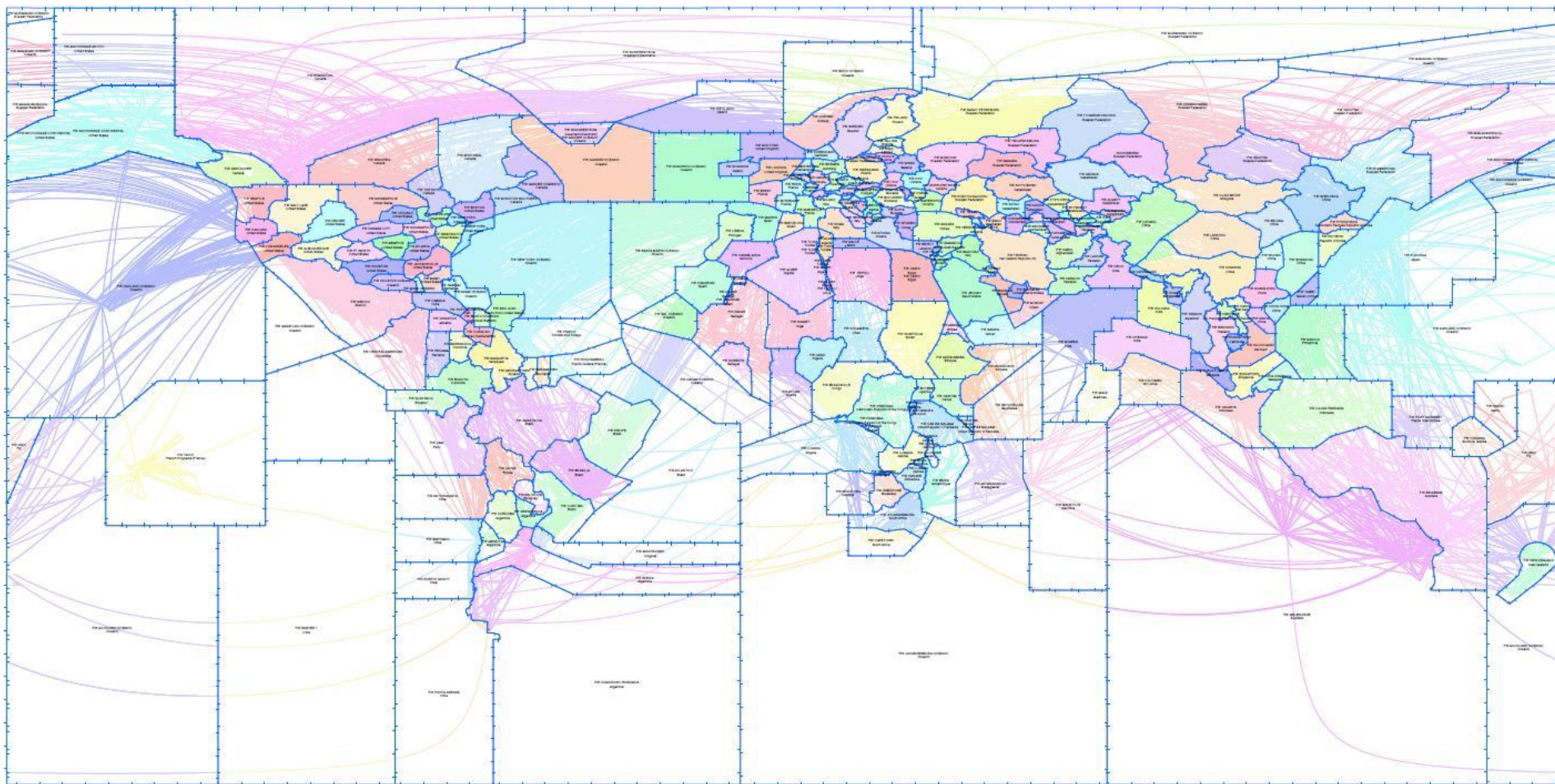




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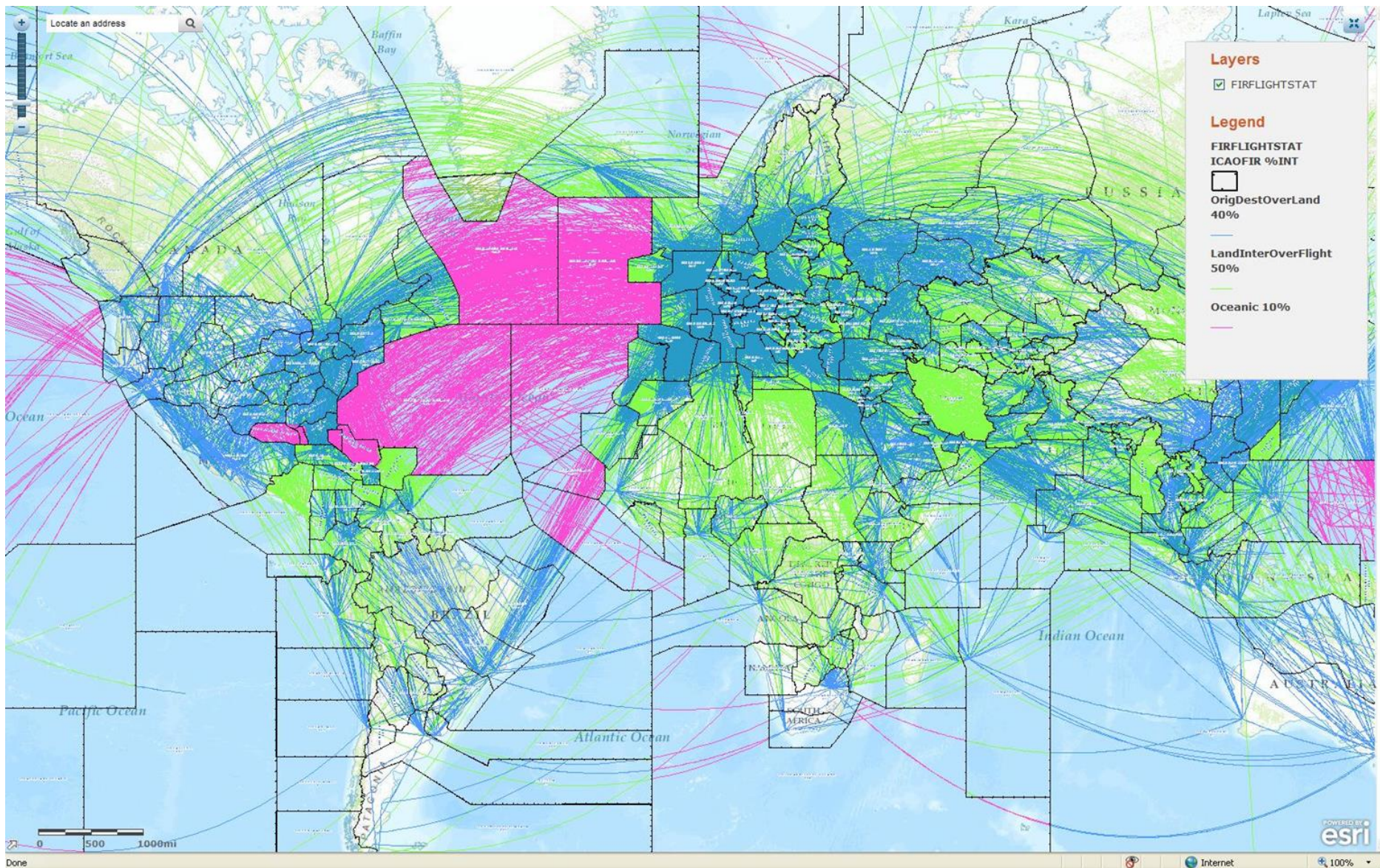
FLOW 2010 (INT & DOM) by airspace using FIRs & Sovereignty





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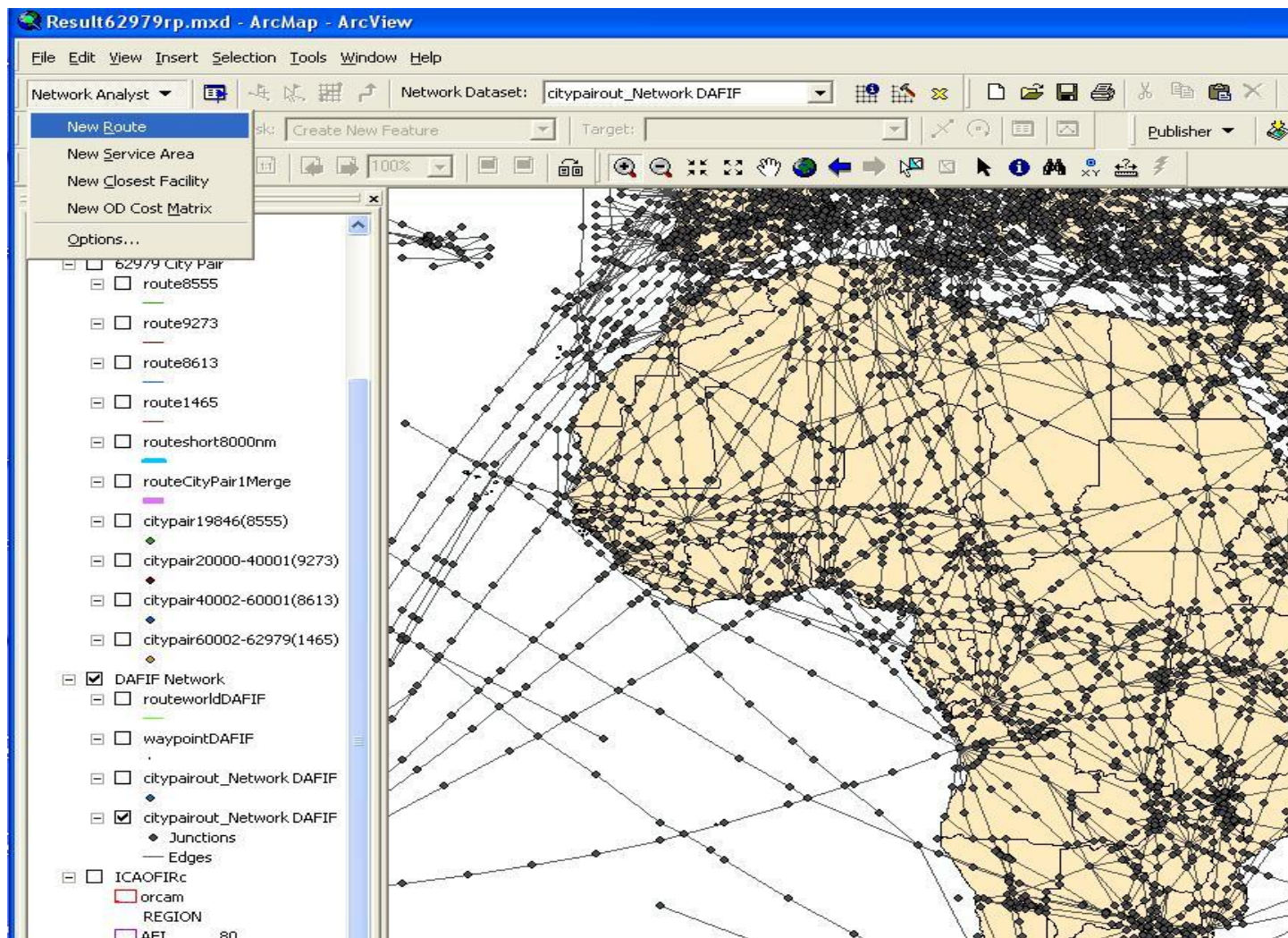




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CAEP ICAO GIS work Network Analyst Shortest route between City pair and DAFIF operational Data



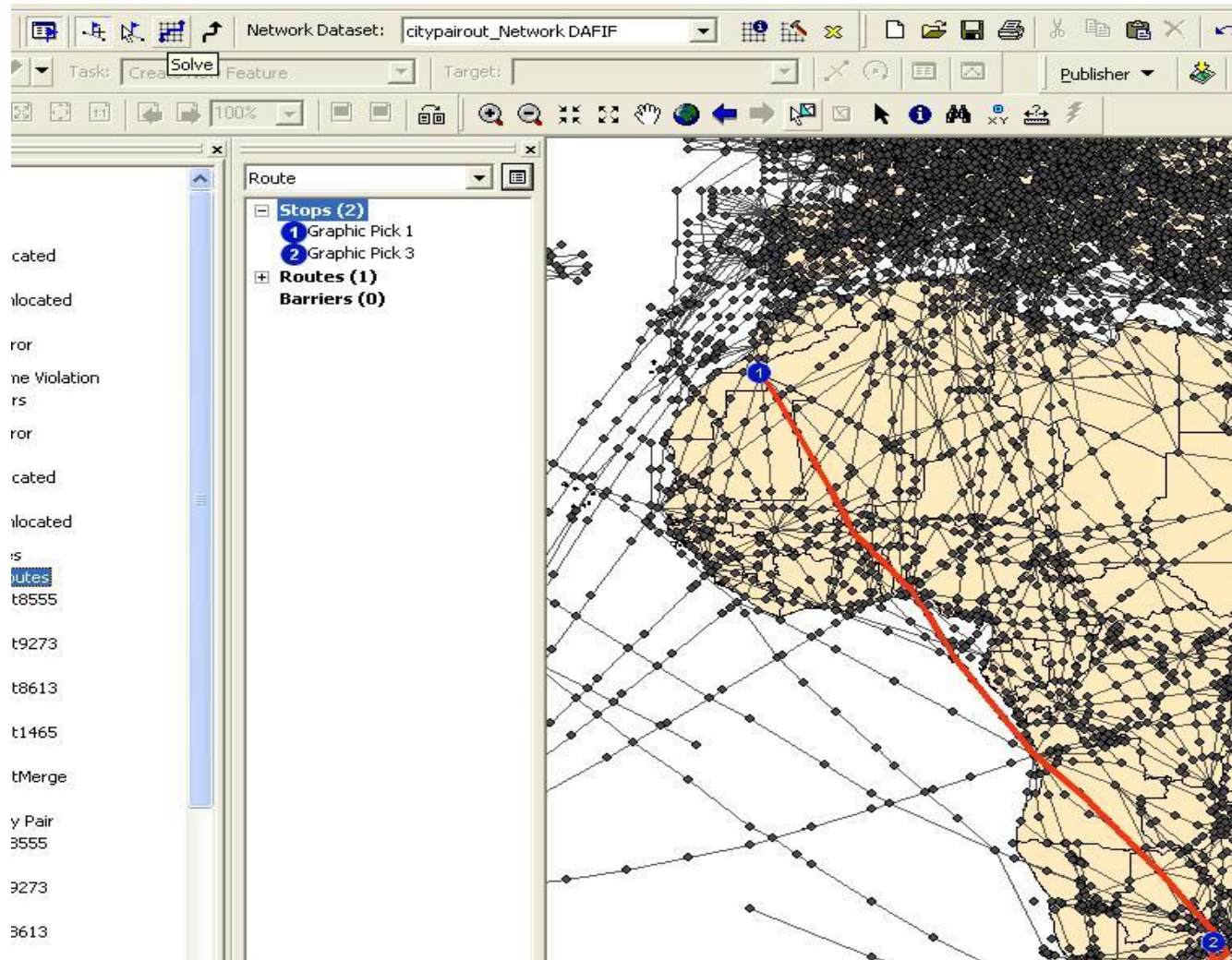


ICAO

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CAEP ICAO GIS work Network Analyst

Shortest route between City pair and DAFIF operational Data



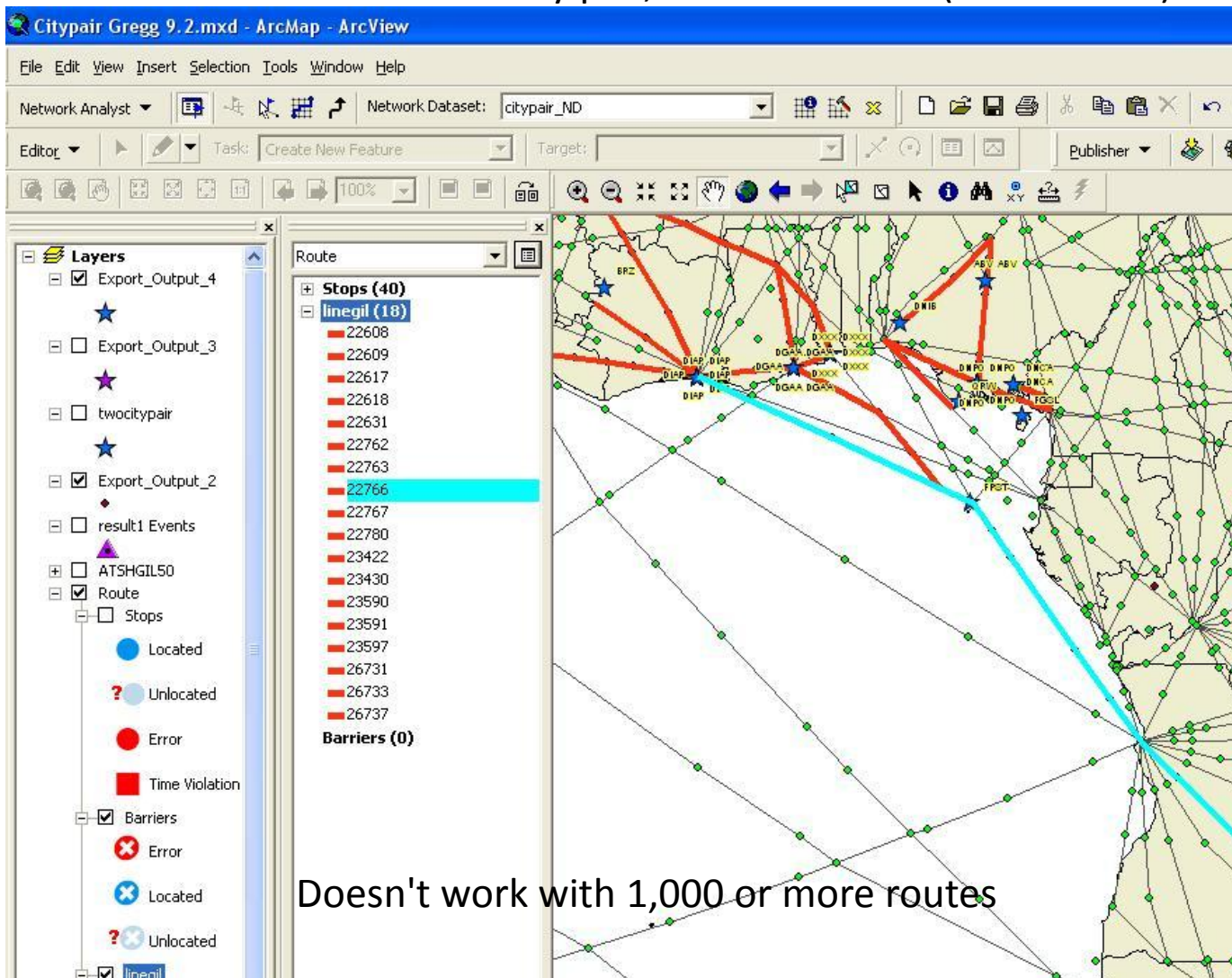


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CAEP ICAO GIS work Network Analyst

Shortest route between 40 City pair, 18 routes solve (route in red)





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ICAO Public Key Directory ...

www.icao.int/security/mrtd/pages/ICAOPKD.aspx

Google

Allow www.icao.int to run "Silverlight"?

Continue Blocking

Allow...



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MRTD Report Magazine

24 NOV 2015 Deadline

Assistance to States

TAG/MRTD

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Disclaimer

ICAO Public Key Directory (PKD)

How to Participate

PKD Documents

PKD Download

ICAO > Security > MRTD > ICAO Public Key Directory (PKD)

ICAO Public Key Directory (PKD)



Introduction

The introduction of ePassports creates opportunities for States to enhance global civil aviation security while at the same time improving the efficiency of aviation operations. The ePassport can contribute to this because verification of the public key infrastructure certificates associated with ePassports can provide border control authorities with an assurance that documents are genuine and unaltered, which in turn allows the biometric information contained in ePassports to be relied on to automate aspects of the border clearance





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Storytelling - A story map ...

gis.icao.int/epassport/

Google

ICAO ePassport issuing States Participants in Public Key Directory (PKD)

ICAO-PKD 45 Participants/Countries issuing ePassport, Second map: 200 Fir's with the most growth, Last map: Traffic Flow 2012

1

ICAO ePassport issuing States Participants in Public Key Directory (PKD)

Map interactive for the States Participants in the ICAO Public Key Directory (PKD) in Green

In Yellow: Other countries issuing ePassport but not in the Public Key Directory (PKD)

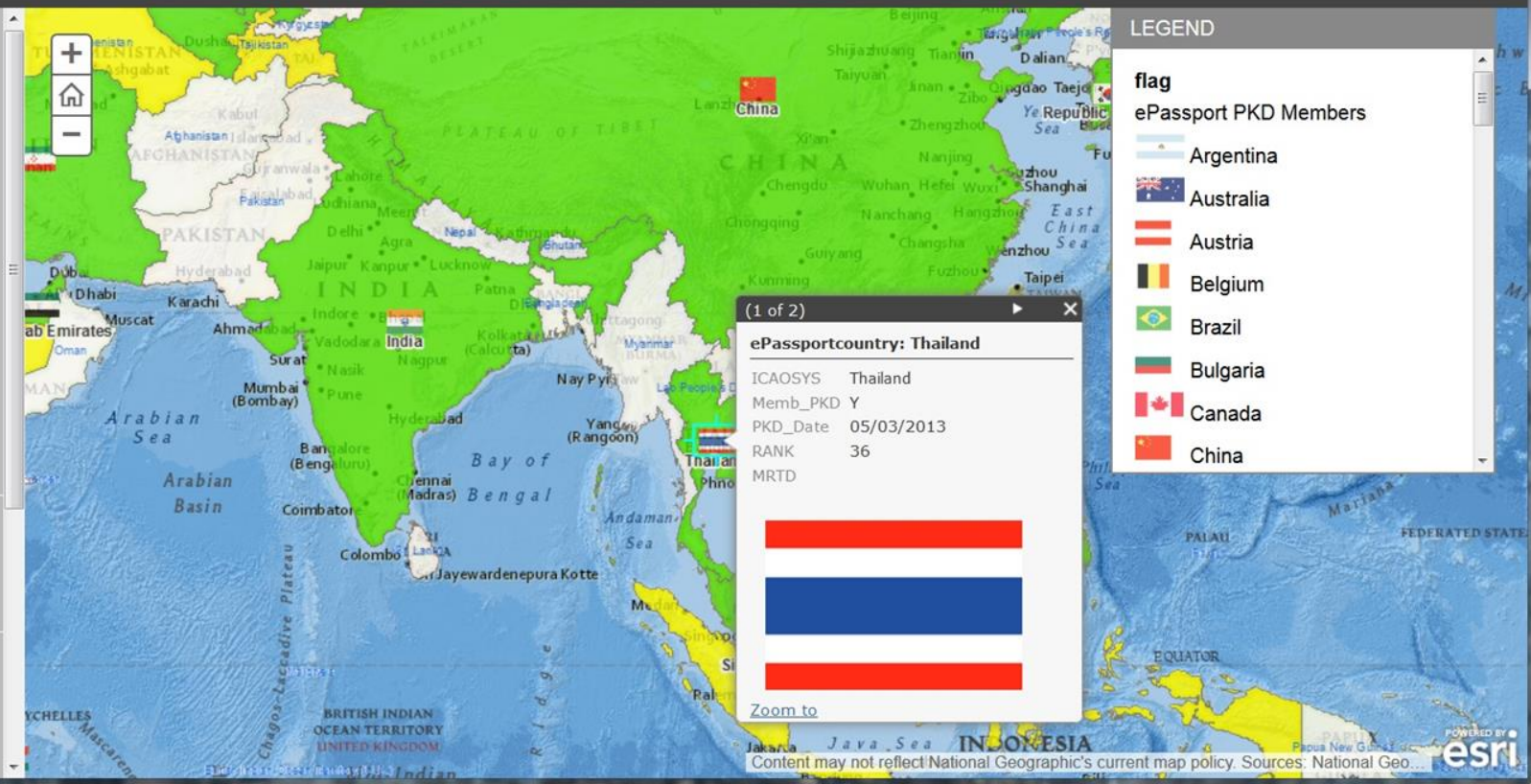
In White: No info available or (MRTD) Machine Readable Travel Document

2

ICAO 2010-2012 Fastest Growing FIRs

3

ICAO 2010-2012 Fastest Growing Airports and ICAO 2010-2012 Fastest

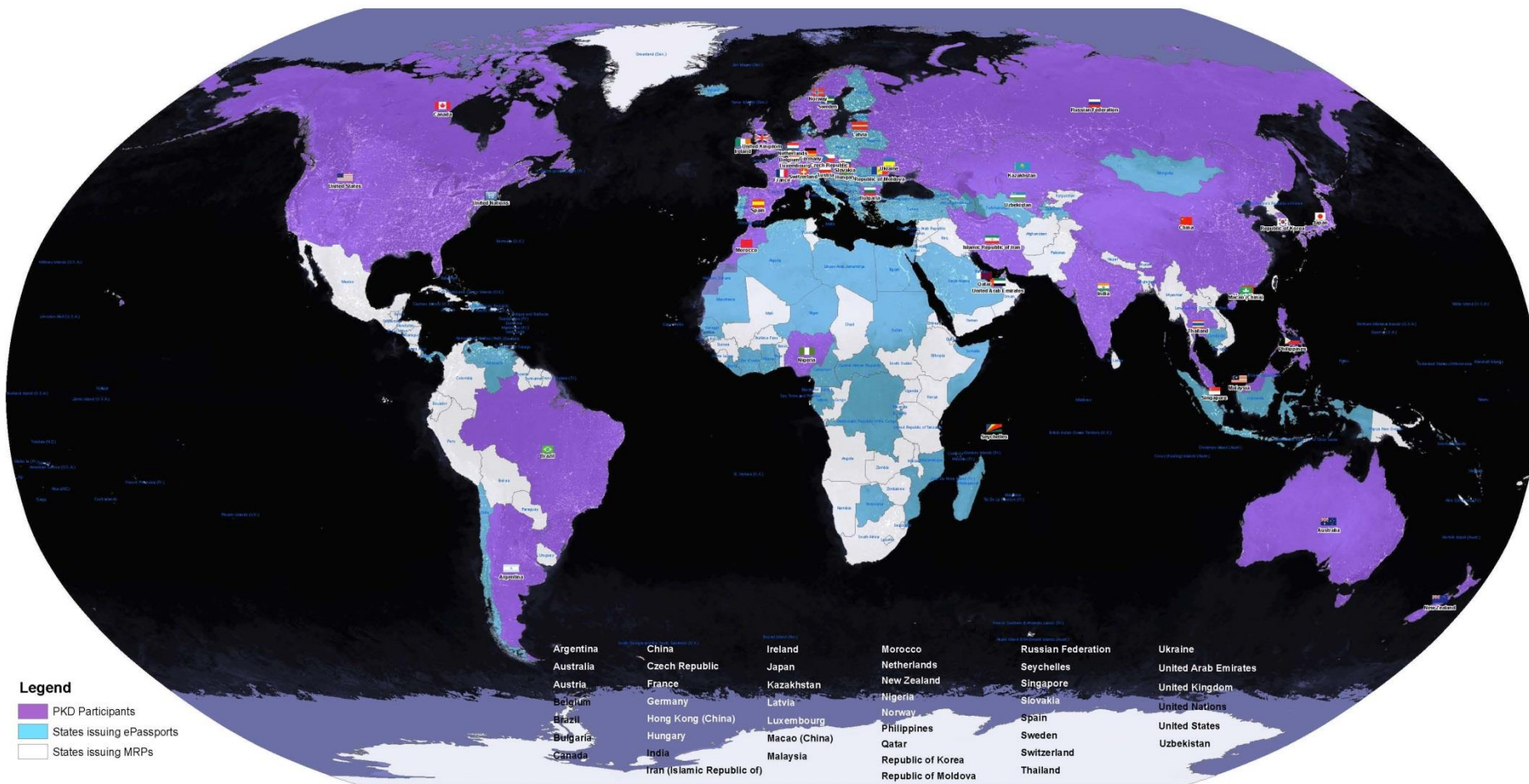




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45 PKD Participants and ePassports issuing States





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Product to buy from ICAO

ICAO FIR

gis.icao.int/ICAOFIR/

Google




Global Flight Information Region (FIR)

International Civil Aviation Organization

[About Us](#)[Products](#)[Demo](#)[Download](#)[Pricing](#)[FAQ](#)[Contact Us](#)

THE NEW STANDARD FOR FLIGHT INFORMATION REGION STUDIES



Global Flight Information Region And Boundaries; GIS Database 2014

Flight Information Region (FIR'S), are **critical elements** in the planning activity of Aviation.

History: The ICAO GIS Services is an electronic database based on the geographical (FIR's) from around the world. This information is gathered from each state from regional offices and approved amendments dating back to 1947.

We make a compilation in the

ESRI format shape file provide by Email when you order

Many industries and activities recognize the growing importance of Flight Information Region (FIR's) Boundaries. National claims may overlap, creating areas of disputed ownership and jurisdiction that can lead to confrontation and even open conflict. ICAO has tried to conciliate the (FIR's) Boundaries since 1947 between States.

[Demo screen shot of the FIR product](#)

[Demo Gallery Web](#) | [Comments](#)

Important Links:

[Buy Directly At The ICAO Online Store](#)

ICAO GIS Portal

[ICAO Online Store](#)[ICAO GIS portal](#)[ICAO main site](#)[Mapping.com](#)[ESRI gis software](#)

Latest FIR News

We just received the latest European amendements (all the modification are included in the ICAO FIR 2014.)



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ArcGIS Viewer for Silverlight

gis.icao.int/appsilver/ICAOFIR2014/

Google

ICAO FIR 2014 List Points (Select by Kind: 1=Council pts, 2=Boundary, 3= Arc, 4= Close poly pts, 0= New pts)

ICAO 2014 FIR pts by kind: 1 = ICAO Council pts, 2 = Boundary

FIR Name ex: FIR NIAMEY FIR DAKAR

Kind of ICAO pts ex: 1 1

27 features found

Execute

Map Contents

- ☒ ICAO 2014 FIR pts by kind: 1 = ICAO Council pts
- ☐ ICAO2014pts
- ☐ AFI ESAF
- ☐ FirHistoriqueflash
- ☐ AfiFiricao
- ☐ AfiFirall
- ☐ AsiaFiricao
- ☐ AsiaFirall
- ☐ CarSamFiricao
- ☐ CarSamFirall
- ☐ EurWestFIRicao
- ☐ EurEstFIRicao

Attributes of ICAO 2014 FIR pts by kind: 1 = ICAO Council pts, 2 = Boundary

ET_ORDER	FIRNOMPTS	ICAO_CODE	U	L	REGION	FIR_P	COMMENTS	ISO_CTRY
180	FIR DAKAR	G000	U	L	AFI	1		999
190	FIR DAKAR	G000	U	L	AFI	1		999
210	FIR DAKAR	G000	U	L	AFI	1		999
220	FIR DAKAR	G000	U	L	AFI	1		999
230	FIR DAKAR	G000	U	L	AFI	1		999

Record: << < 27 > >> Records (27 out of 27 Selected) Options Commit



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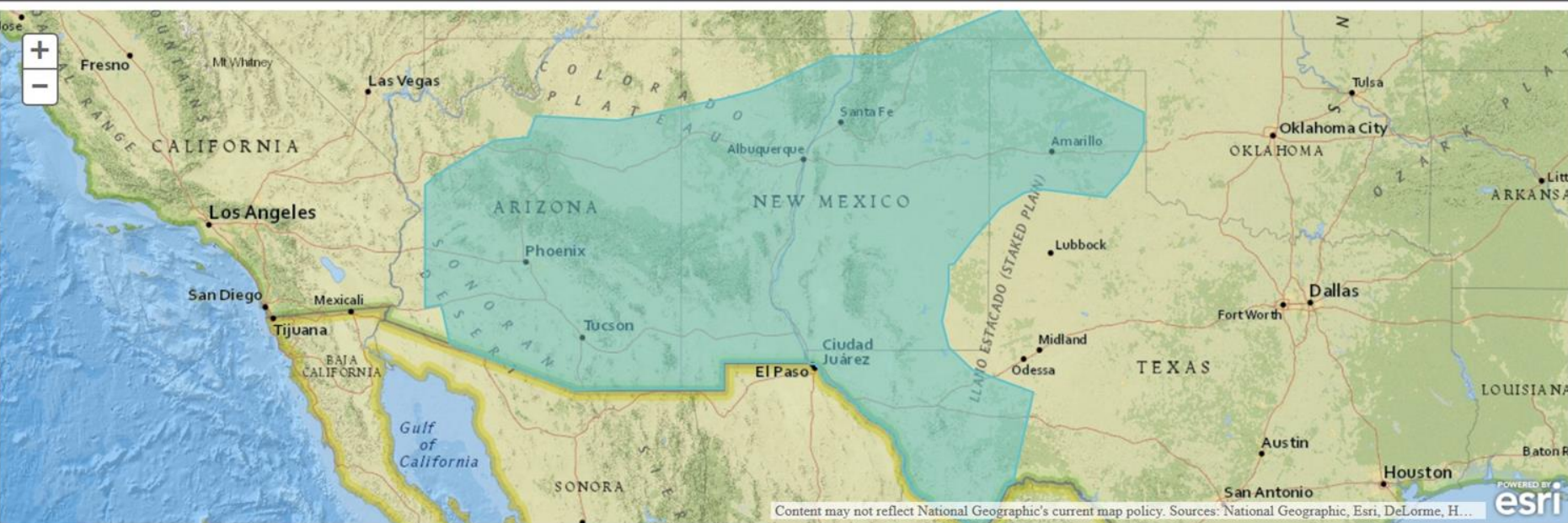
Display Find Task results in Doj... x +

gis.icao.int/Firdropdown/

Google



ICAO FIR SELECTION: ALBUQUERQUE Search



FIR NAME	REGION	ICAO CODE	UPPER	LOWER	Combine	Historic
ALBUQUERQUE	NAM	KZAB		L	LC	



ICAO

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Outils Ajouter Aide

Rechercher

rest

Itinéraire Historique

Se connecter



FIR CAIRO

FIR CAIRO	
FID	102
Id	0
FIRname	FIR CAIRO
REGION	MID
KIND	FIR
UPPER	
LOWER	L
ULC	LC
ICAOCODE	HECC
RESP	CAIRO
NOM_COMP	CAIRO
HISTORIC	AFI BASIC ANP ESAF 13/2- AOP/ATM/SAR
REMARKS	
REMARKS2	
REMARKS3	
centlong	30,11315
centlat	27,369182
AREAsqkm	1304719,614
PERIMEkm	4996,21

start

gis1.icao.int - Remot...

FIR2014 - ArcMap - A...

firmagda2014

Google Earth

FIRKMLDETAIL - Paint

EN

15:29



ICAO

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ICAO ETOD solution step by step

ICAO Public Maps

gis.icao.int/icaonetod/

Google

Etod Solution ICAO

Carousel **IPAD-only** Explain IPAD

Uniting Aviation on
Safety | Security | Environment

ICAO MAP GALLERY

ICAO ETOD implementation process for States (2015): ICAO ETOD Study , ETOD GIS prototype

ICAO ETOD implementation & Coordination

The diagram illustrates the ICAO ETOD implementation process for States (2015). It features a central circular flow of four main stages, each represented by a box with a blue border and a yellow dashed outline. The stages are: **Needs Analysis** (labeled "Why"), **Global Plans** (labeled "Global & Regional 'What'" with a green checkmark), **SARPs & PANS** (labeled "AIR Traffic Management" and "AIR Traffic Management" with a green checkmark), and **Implementation** (labeled "Training & Guidance 'How and Whether'" with a green checkmark). A large blue circular arrow connects these four stages in a clockwise cycle. To the left of the cycle are two additional boxes: **Compliance & Verification** (labeled "if needed") and **Assess & Measure** (labeled "When"). The top right of the diagram includes the ICAO logo and the text "ICAO - OACI - OUA".

New! Internet Review of Best GIS Practice for ETOD

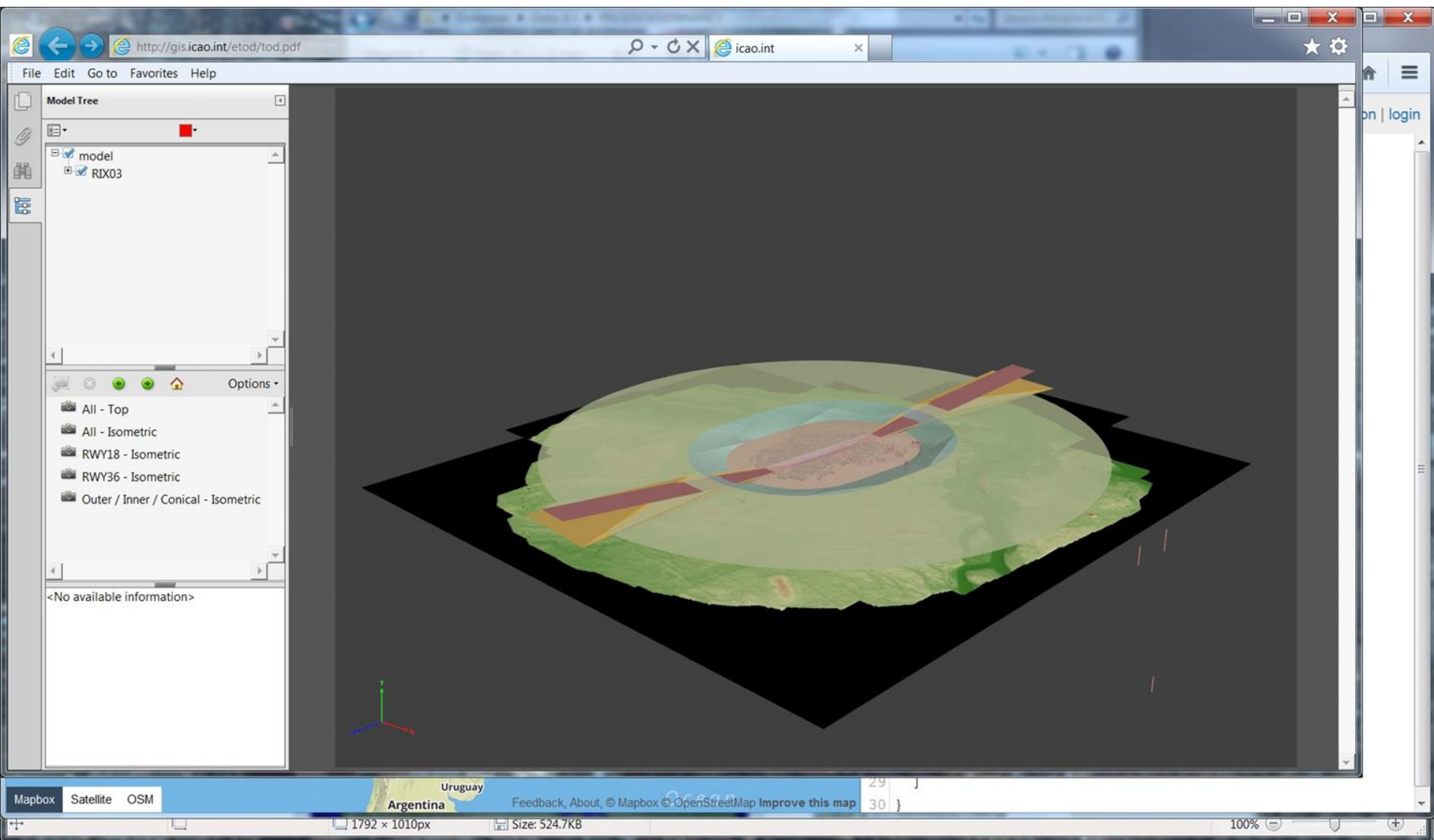
- ESRI Download Powerpoint for ArcGIS for Aviation
- Esri LIDAR workshop (ETOD Solution) 10.1
- 3D Airports Datasheet DigitalGlobe
- ICAO Etod spec 9881
- OPTECK Leader in LIDAR instrumentation
- GeoEye ETOD ICAO Compliant
- GeoEye ETOD
- IDS corporation ETOD
- IDS corporation air navigation
- INTERMAP IFSAR technologies

1792 x 1010px Size: 524.7KB 100%



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Oestra/Volda Airport OIS

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Information

Shape1_1

Attributes

OBJECTID	1
Obstr_Height	7.21
Type	1
Volume	0
Z_Max	79.93
Z_Min	72.71



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ICAO LPR (Language Proficiency Requirements)

Language Proficiency

cfapp.icao.int/fsix/lp.cfm

Google

ICAO - FLIGHT SAFETY INFORMATION EXCHANGE

FSIX Home

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RSOOs

GASP

FAQ

Implementation of Language Proficiency Requirements

Instructions for Posting

Resolution A37-10: Proficiency in the English language used for radiotelephony communications

Guidelines for the Development of Implementation Plans

Notification of compliance with or differences from Language Provisions

Note on the Notification of Differences

af

zh

en

fr

ru

es

List of States that have provided information concerning compliance with language proficiency requirements

State Letter on Resolution A37-10: Proficiency in the English Language used for Radio Telephony

af

zh

en

fr

ru

es

ICAO's Aviation English Language Test Service

Rated Speech Samples Training Aid Project

Link to FAQs on Language

Worldwide Status of compliance with Language Proficiency Requirements

Details

Legend

Find address or place

+

-

Content may not reflect National Geogr...

View Larger Map

For more info click on the map and use + and - to zoom

For more information please click below to contact:

Language Proficiency Questions

1792 x 1010px

Size: 524.7KB

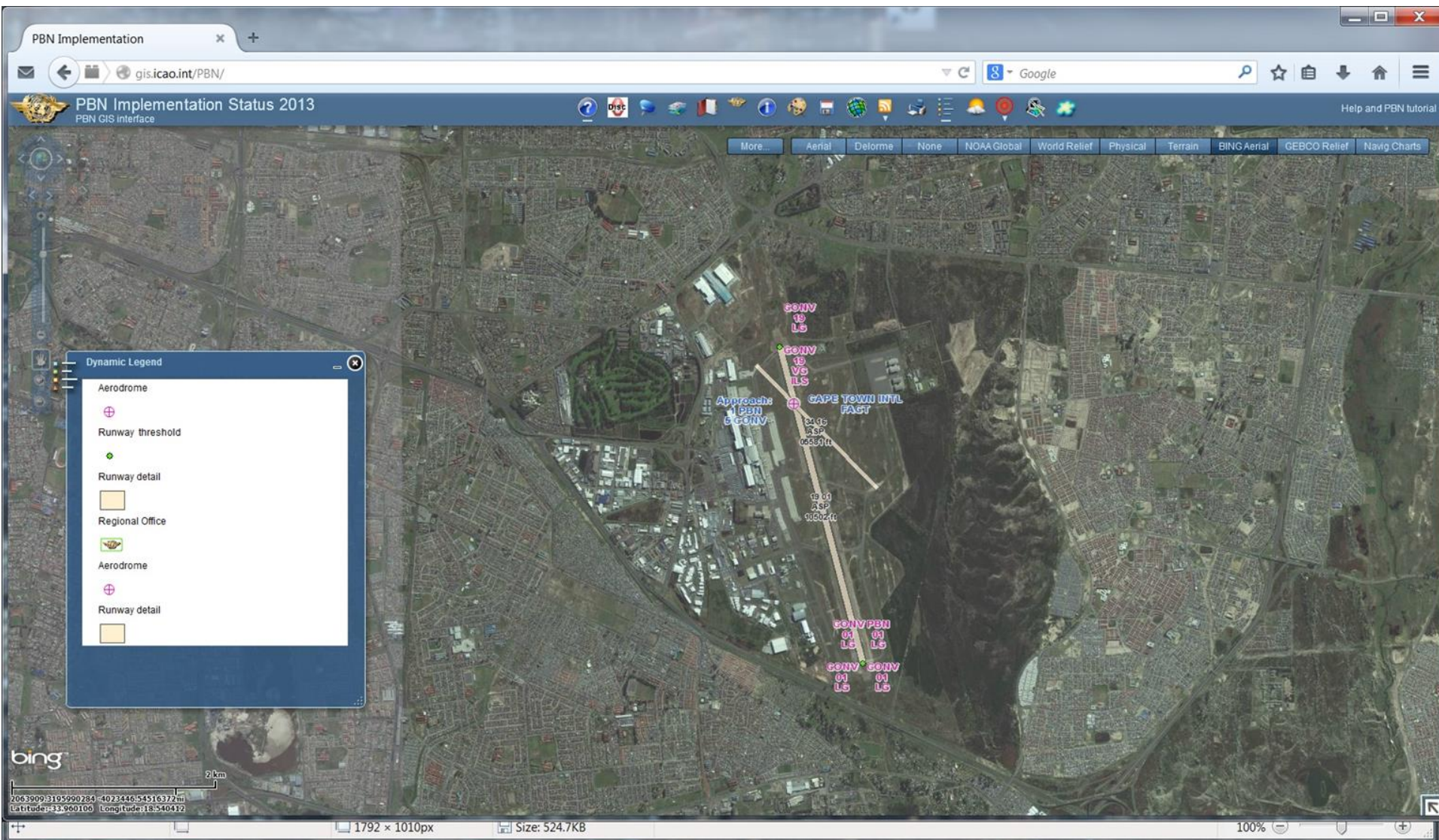
100%



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ICAO PBN (Performance Base Navigation status)





ICAO

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ICAO Route Designer



www.arcgis.com/apps/OnePane/basicviewer/index.html?appid=4cd30a0fc40c46889a9b101a456d89b4

Google

ICAO Route Designer

Details Legend

Print

Layers

Basemap

Measure

Share

Find address or place

UPP Routes op 2014

NAVH

VOR

VORTAC

TACAN

VOR-DME

NDB

NDB-DME

DME

ICARDSLNC Direct Oracle link

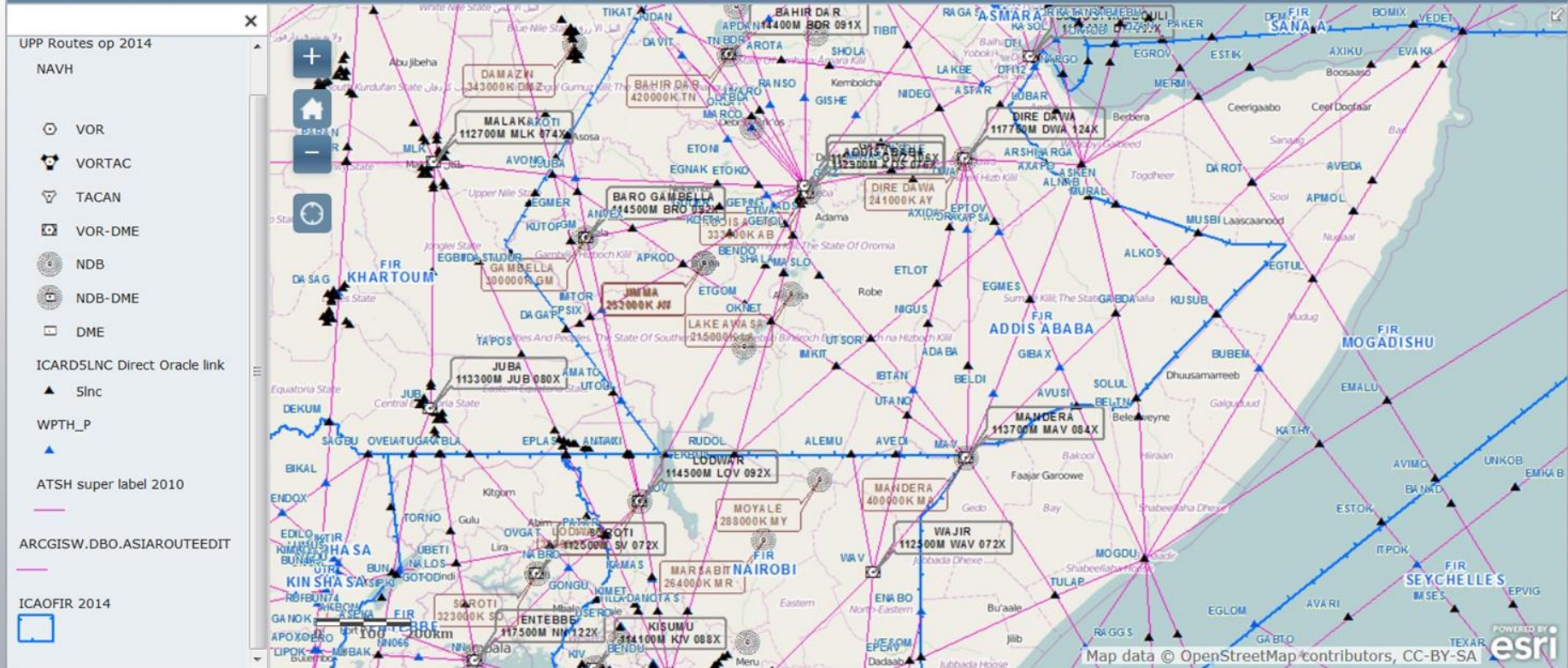
5Inc

WPTH_P

ATSH super label 2010

ARCISW.DBO.ASIAROUTEEDIT

ICAO FIR 2014



[World ROUTE SITE](#)

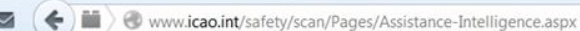
[ASIA ROUTE SITE](#)




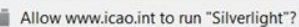
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Assistance Intelligence



 Google



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Allow...



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Français



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SCAN Projects Database

Assistance Intelligence

Safety Fund (SAFE)

ICAO Plans of Action

Safety Partnership Meetings

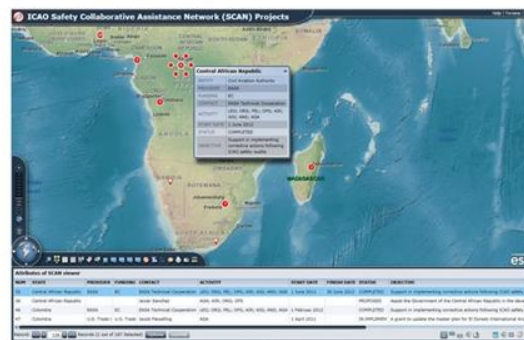
AFI Plan

ICAO > Safety > SCAN - Home > Assistance Intelligence

Assistance Intelligence

ICAO continues to bring together States and aviation safety partners to determine areas of strategic priority. SCAN promotes this endeavor by promoting transparency and information sharing. The tools provided in this section are aimed at stimulating the coordination of assistance initiatives to maximize available resources while reducing duplication of efforts.

SCAN PROJECTS MAP



SYMPOSIUM
EXHIBITION
MRTDs AND
RISK SECURITY

Q, MONTRÉAL
7-9 OCT 2014

TENTH SY
AND EXH
ON MRTD
BORDER

ICAO HQ, M
7-9 OCT 20

1792 x 1010px

Size: 524.7KB

100% (1)



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ICAO SCAN (Safety Collaborative Assistance Network)

ArcGIS Viewer for Silverlight

gis.icao.int/appsilver/scan/

ICAO Safety Collaborative Assistance Network (SCAN) Projects

Map Contents

- ☒ SCAN project Viewer

Malawi

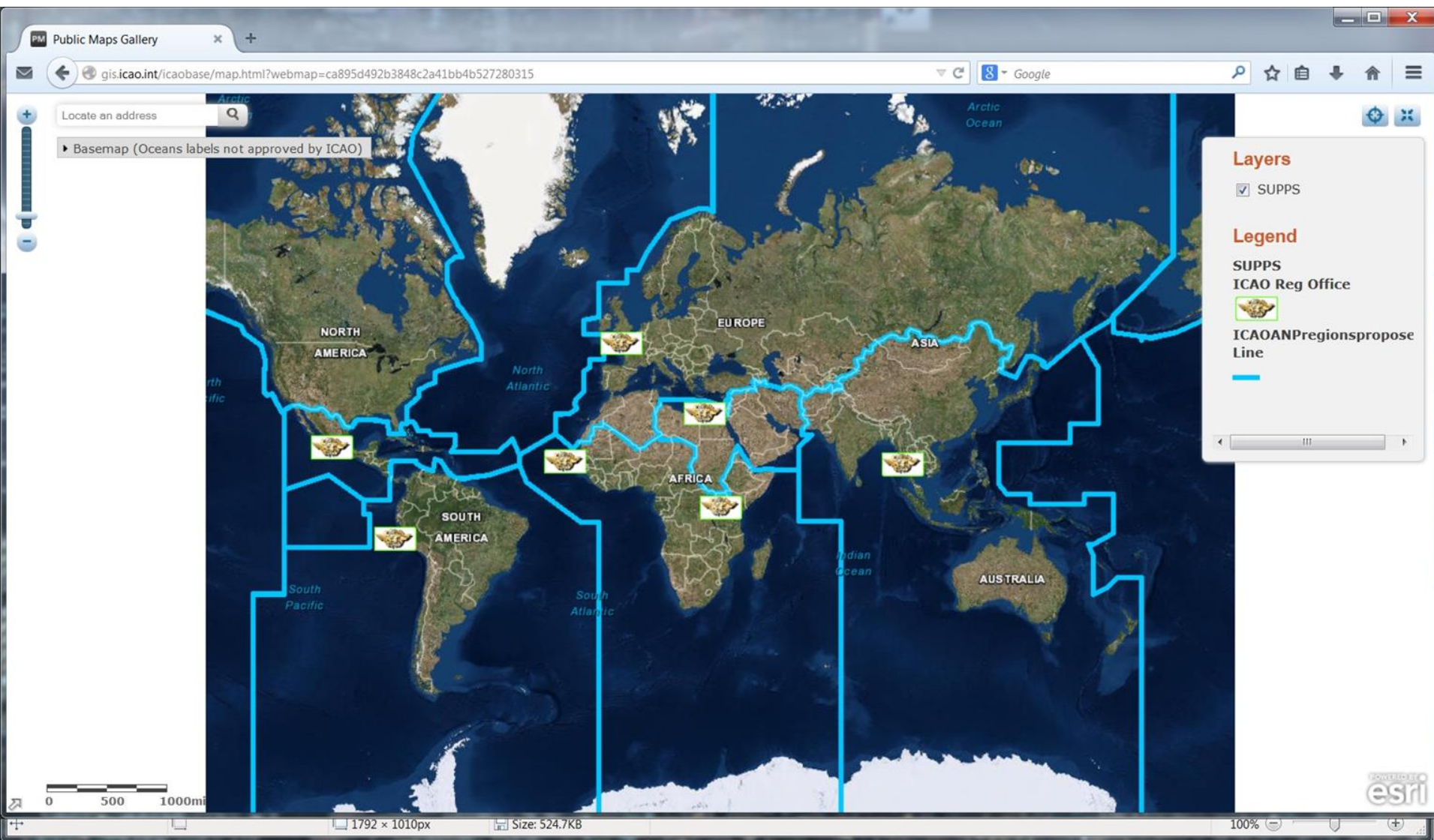
ENTITY	Republic of Malawi
PROVIDER	European Investment Bank
FUNDING	European Investment Bank
CONTACT	Stephen O'Driscoll
ACTIVITY	ANS; AGA
START DATE	
STATUS	PROPOSED
OBJECTIVE	Replacement and improvement of air navigation, airport safety and training equipment at various airports in Malawi

Attributes of SCAN project Viewer

NUM	STATE	PROVIDER	FUNDING	CONTACT	ACTIVITY	START DATE	FINISH DATE	STATUS
131	Lesotho	European Investment Bank	European Investment Bank	Stephen O'Driscoll	ANS; AGA			PROPOSED
135	Madagascar	World Bank	International Development Agency	Noroarisoa Rabefaniraka	LEG; OPS; AGA	1 December 2003	30 June 2012	COMPLETED
136	Madagascar	ICAO TCB	ICAO Safety Fund (SAFE)	Javier Sanchez	LEG	1 January 2012	31 December 2012	COMPLETED
137	Malawi	EASA	EC	EASA Technical Cooperation	LEG; ORG; PEL; OPS; AIR; AIG; ANS; AGA	1 November 2010	30 November 2010	COMPLETED

Record: << < 1 > >> Records (0 out of 208 Selected) Options Commit

[SCAN SITE](#)





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Comparing World Traffic Flow ...

gis.icao.int/comparetraffic3/

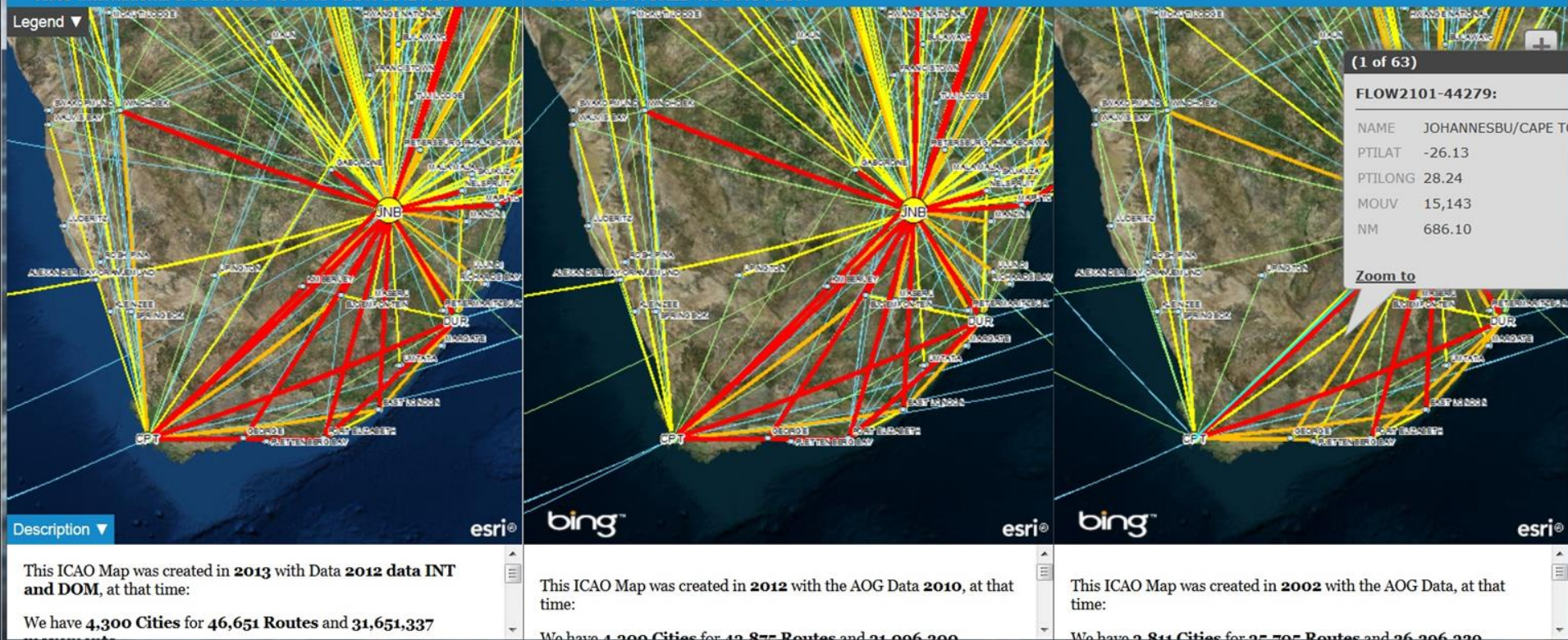
Google

Comparing World Traffic Flow 2002-2010-2013 by City Pair (International and Dome...

Zoom Drag and Click on line for more Info! Major Routes in Red, Orange, Yellow, Green, Blue. How do Traffic Flow change in each Region?

ICAO International & Domestic TRAFFIC FLOW 2012 FAST

ICAO 2010 WORLD TRAFFIC FLOW



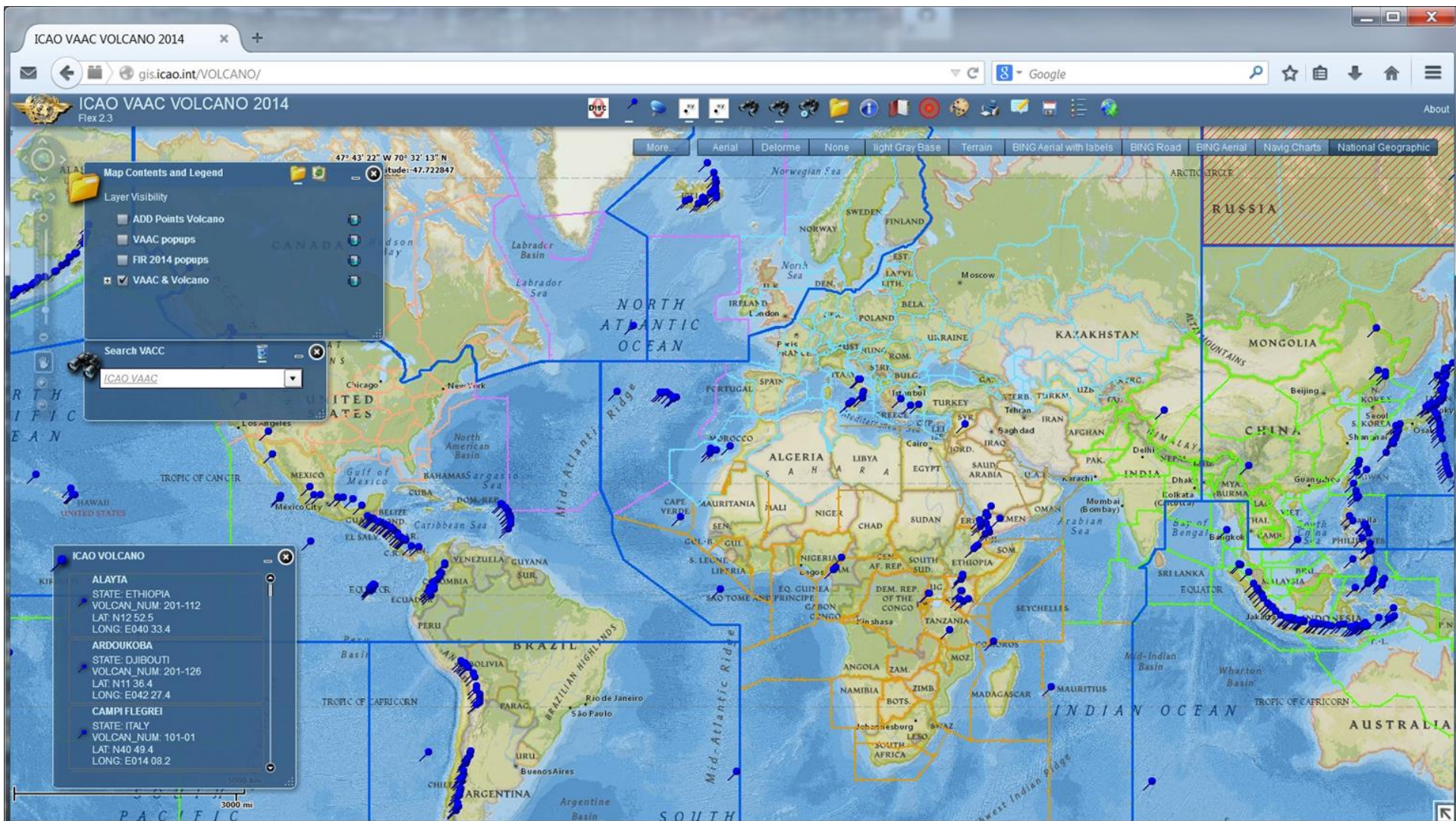
[Compare Traffic site](#)



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ICAO Volcanoes GIS services in flash





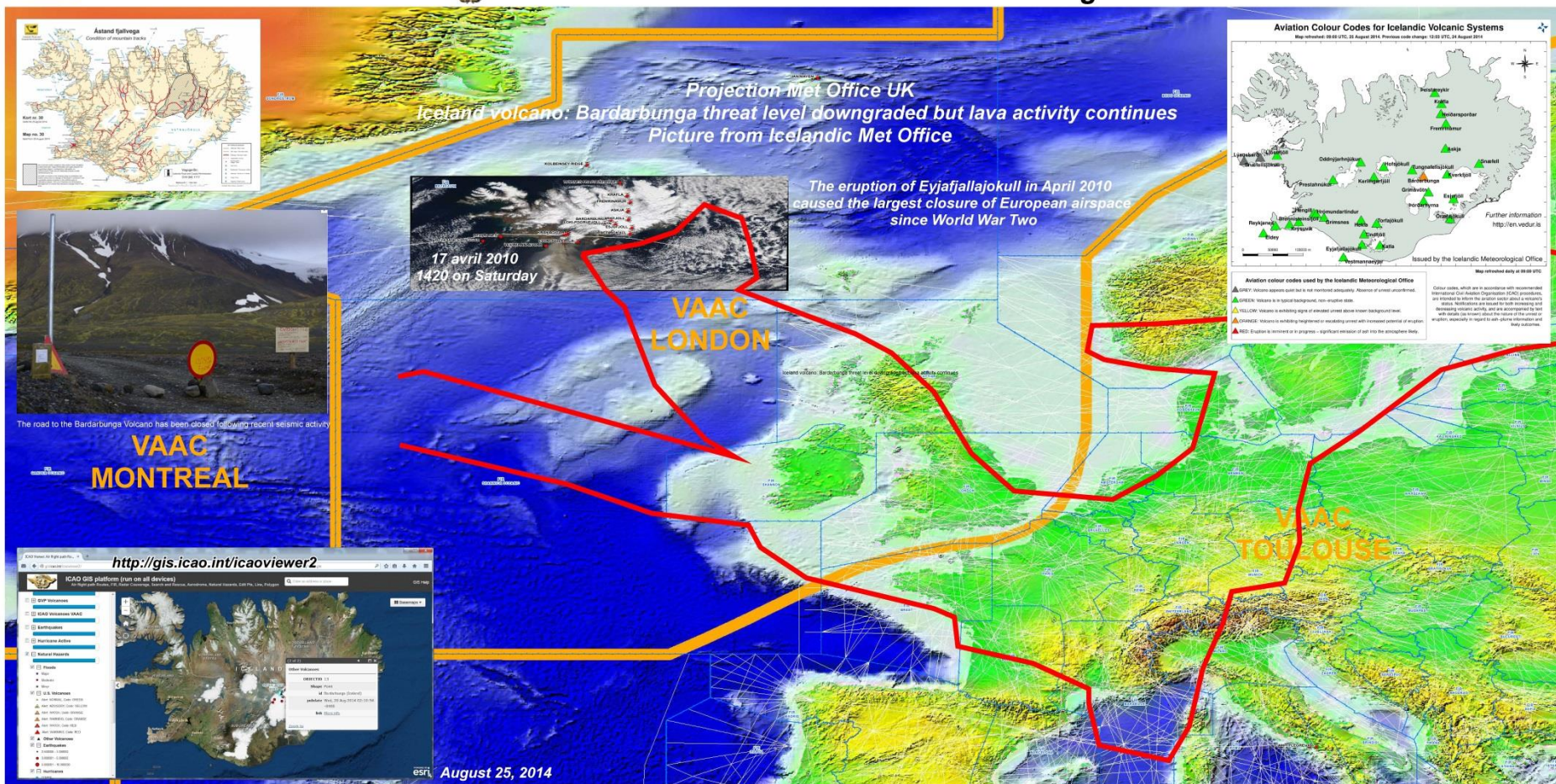
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SART
ICAO GIS



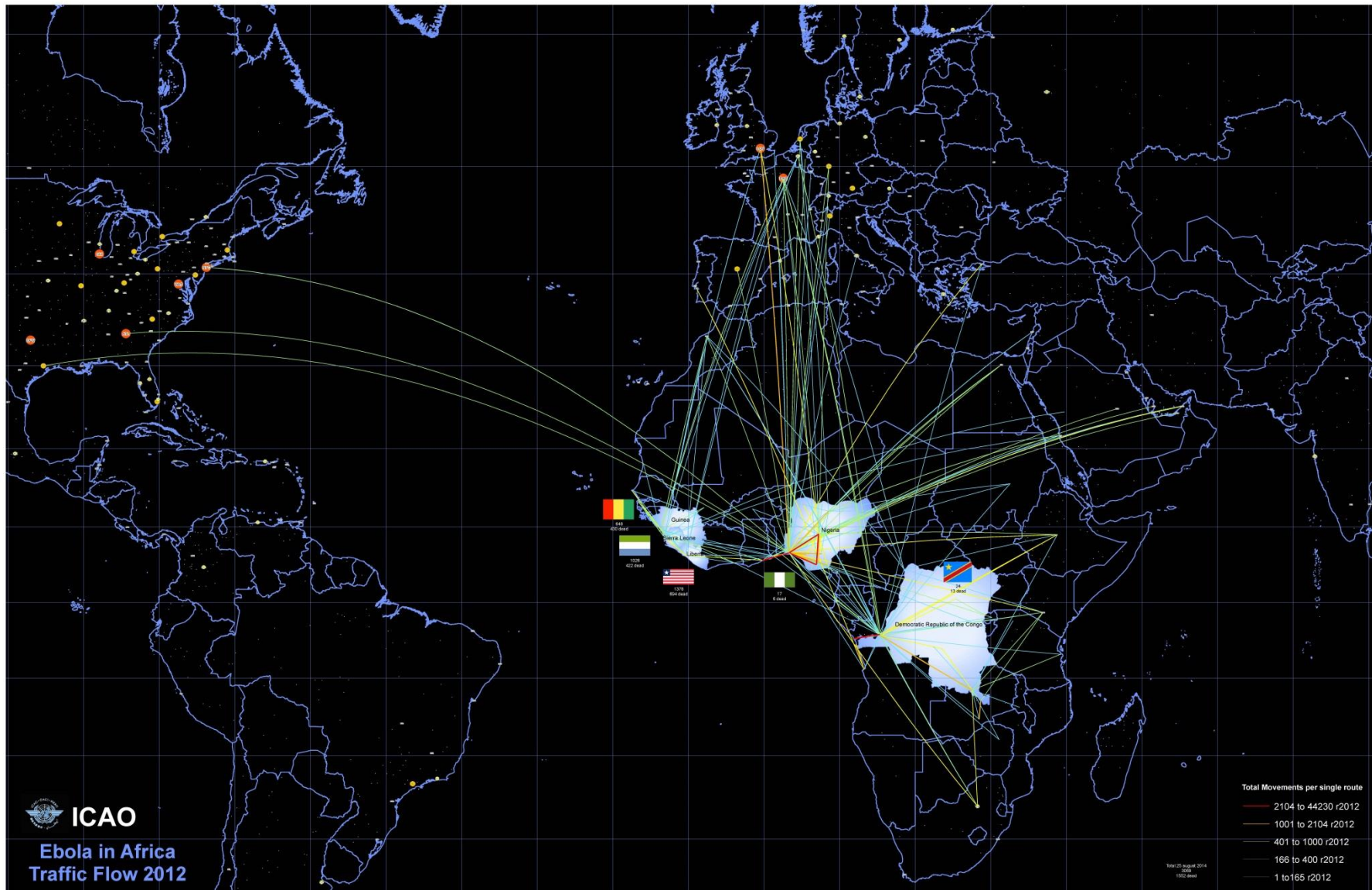
ICAO MET ICELAND Volcano Bardarbunga





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ICAO Traffic flow 2013



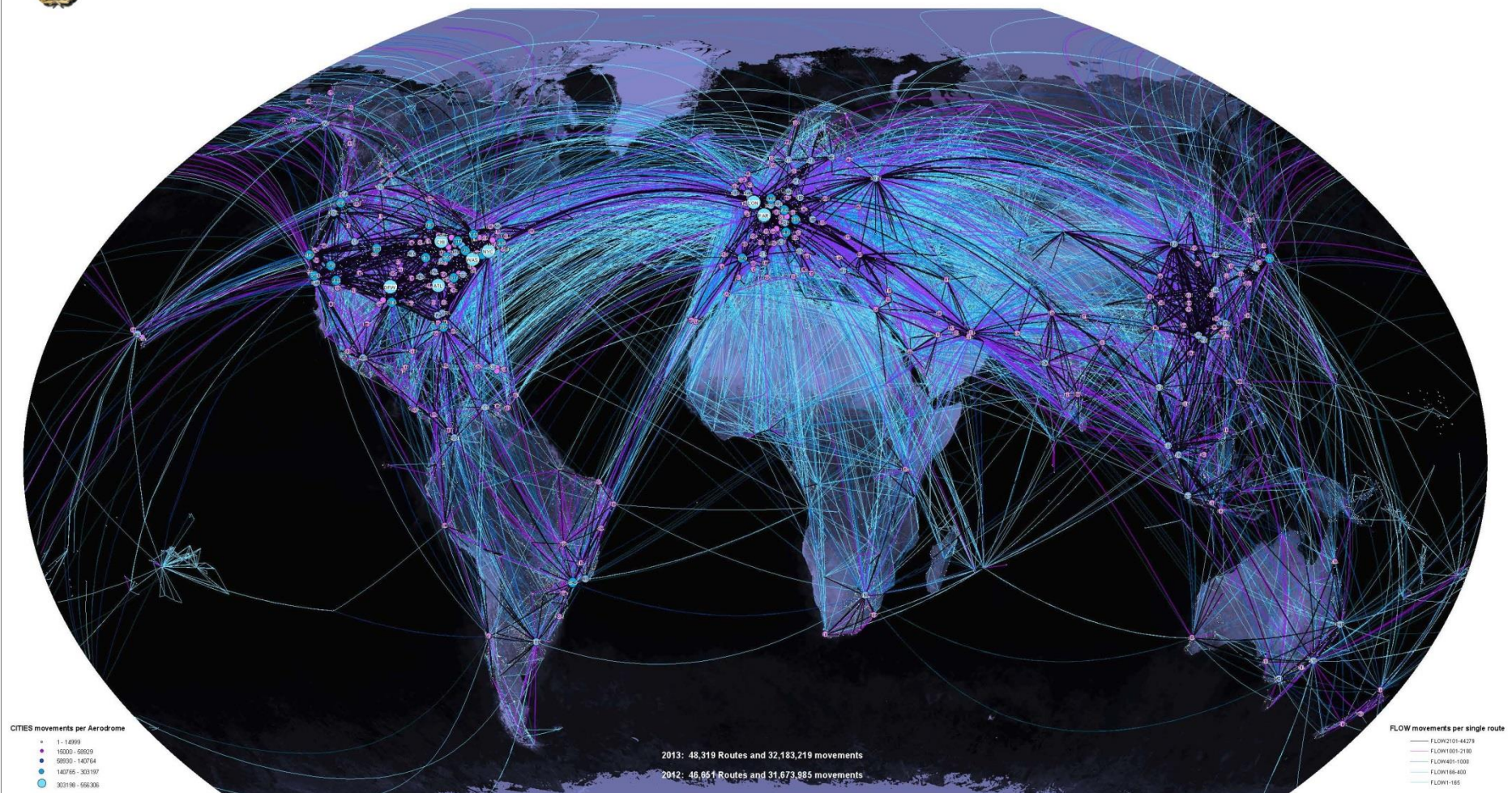


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Air Traffic Flow Chart 2013 INT DOM





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Air Traffic Flow Chart 2013 INT





Air Traffic Flow Chart 2012

More Info: <http://gis.icao.int/comparetraffic>



Air Traffic Flow Chart 2002



2012: 4,300 Cities for 46,651 Routes and 31,673,958 movements
2002: 3,811 Cities for 35,705 Routes and 26,296,329 movements



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ICAO Status Edition and Attachment function

ArcGIS Viewer for Silverlight

gis.icao.int/appsilver/WGS84P05/

AIS to AIM - Consolidation Phase P-05 WGS-84 implementation

Help | Forums | Blog

Map Contents

- ☒ P-05 WGS84 implementation
- ☒ WGS84P05 service

Kenya

OBJECTID	111
REG OFFICE	NAIROBI
REGION	AFI
ICAO STATE	Kenya
P05 STATUS	Compliant
REMARKS	http://gis.icao.int/egamp/kenyawgs84.JPG
IMPLEM BY	
DATE	9/5/2014 4:00:00 AM

Desert.jpg Koala.jpg MINUSMA.pdf

Attributes of P-05 WGS84 implementation

OBJECTID	REG OFFICE	REGION	ICAO STATE	P05 STATUS	REMARKS	IMPLEM BY	DATE
111	NAIROBI	AFI	Kenya	Compliant	http://gis.icao.int/egamp/kenyawgs84.JPG		9/5/2014 12:00:00 AM
112	DAKAR	AFI	Democratic Republic of the Congo	Unknown			
113	NAIROBI	AFI	Rwanda	Unknown			

Record: << < 1 > >> Records (0 out of 250 Selected) Options Commit



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ArcGIS Viewer for Silverlight

gis.icao.int/appsilver/WGS84P05/

Google

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AIS to AIM - Consolidation Phase P-05 WGS-84 implementation

Map Contents

- ☒ P-05 WGS84 Implementation
- ☒ WGS84P05 service

Kenya

OBJECTID: 111
REG OFFICE: NAIROBI
REGION: AFI
ICAO STATE: Kenya
P05 STATUS: Compliant
REMARKS_1: Unknown
IMPLEM BY: Partially Compliant
DATE: Compliant
Not Compliant

POWERED BY
esri

Attributes of P-05 WGS84 implementation

OBJECTID	REG OFFICE	REGION	ICAO STATE	P05 STATUS	REMARKS	IMPLEM BY	DATE
107	DAKAR	AFI	Equatorial Guinea	Compliant			
108	DAKAR	AFI	Congo	Compliant			
109	NAIROBI	AFI	Uganda	Partially Compliant		Gilbert JEP	4/29/2013 12:00:00 AM
110	LIMA	CARSAM	Ecuador	Compliant			
111	NAIROBI	AFI	Kenya	Compliant	http://gis.icao.int/egandp/kenyawgs84.JPG		9/5/2014 12:00:00 AM

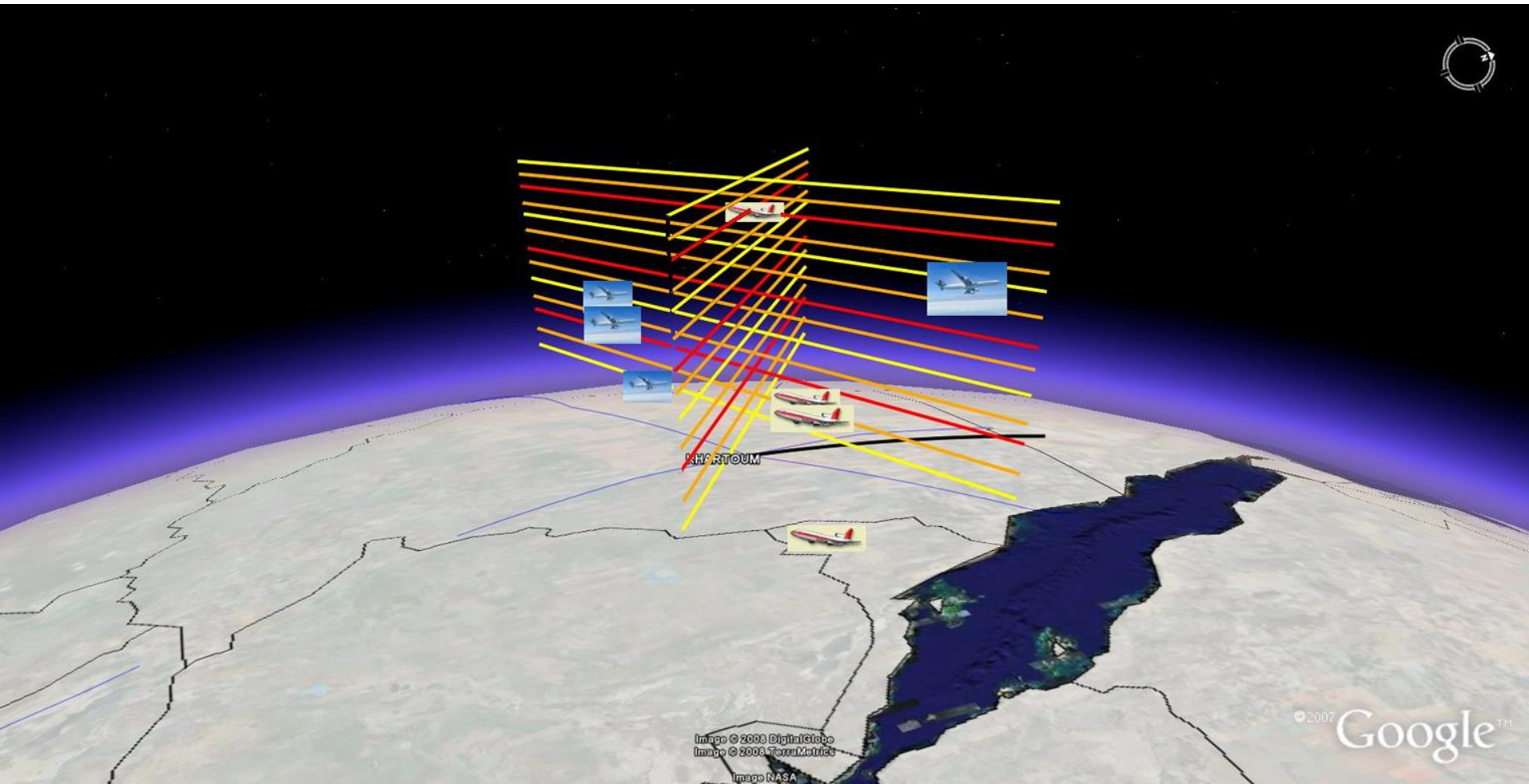
Record: << < 1 > >> Records (0 out of 232 Selected) Options Commit



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OLD view 3D Google Earth plane separation

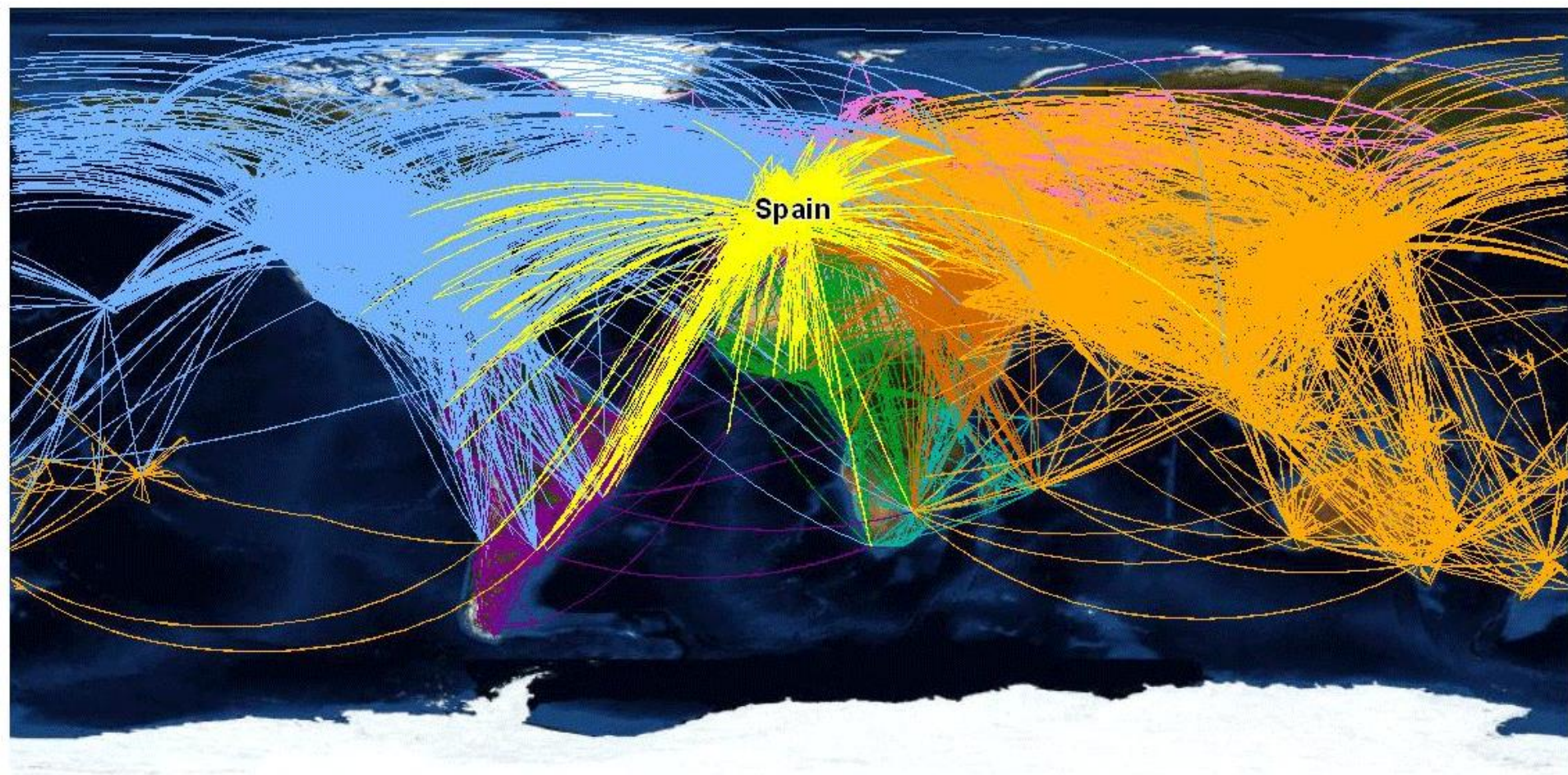




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Spain traffic flow

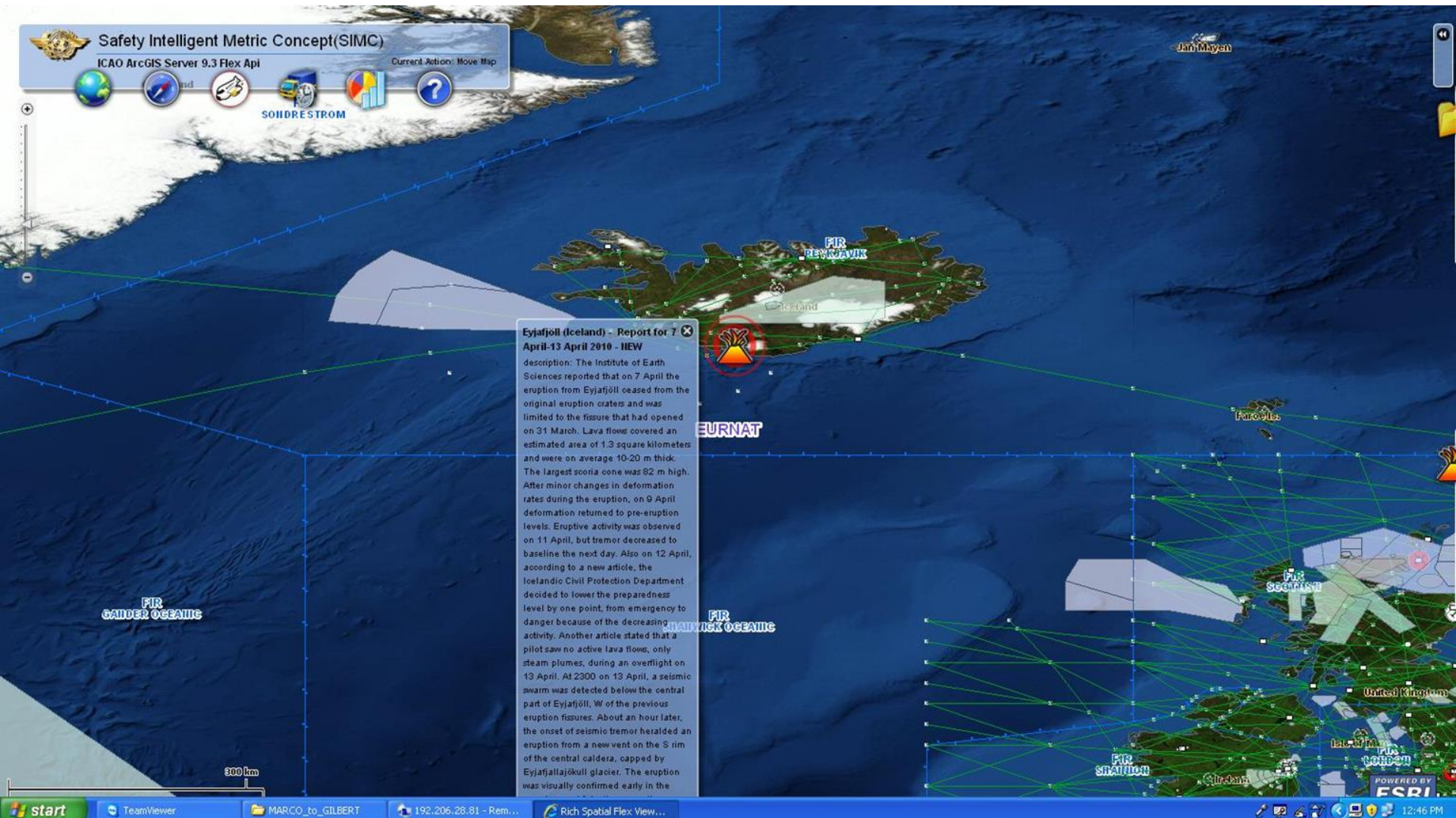




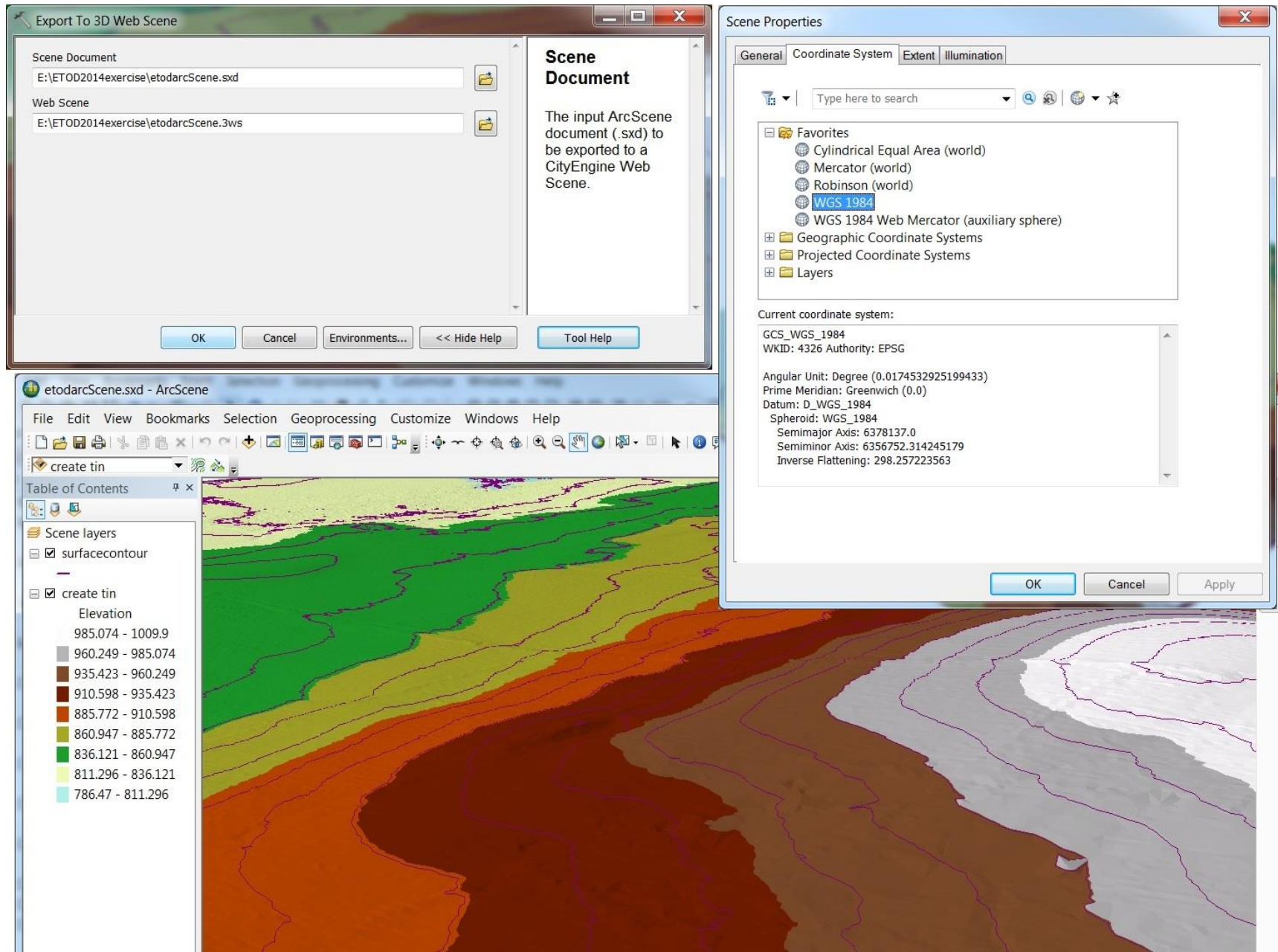
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GeoRSS feed are now missing we must pay to obtain the link...



ICAO Etod contour creation via Las files 3D analyst





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Doc 7910 connect on SQL server

gis1.icao.int - Remote Desktop

7910webEDITION.mxd - ArcMap - ArcEditor

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

Georeferencing Layer: 1:176,597,117

Layer: Letter Index Nation

Snapping Animation ETG

Table Of Contents

- Doc 7910/140
 - Letter Index Nation
 - IndexLetIdent
 - LimiteLetIdent
 - 7910 loc Indicator
 - 7910ed145
 - 7910ed140
 - 7910ed137
 - 7910ed135
 - 7910ed134
 - Aerodrome
 - airportjm
 - Runwaywgs
 - ICAO FIR09
 - center in charge
 - RegOffice
 - Countrygen 325 k
 - COLOR_MAP

New Query Layer

Connection: Connections ...

List of Tables:

Name	Columns:	Name	Type	Nullable
------	----------	------	------	----------

Manage Connection(s)

Existing Connection(s):

Name
Connection to sqlserver

New... Edit... Delete Cancel OK

Name: Query:

Show Advanced Options Validate

< Back Finish Cancel

126°47'11.61"W 46°59'50.65"N

2011

Latitude:19.715265 Longitude:9.368084

GOOO

500 km 400 mi

bing

Done

Internet 100%



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Doc 7910 connect on SQL server

gis1.icao.int - Remote Desktop

7910webEDITION.mxd - ArcMap - ArcEditor

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

Georeferencing Layer:

Table

afs.AFS_USER.7910ED146TEST

Location_Name	ICAO_Code	AFTN	City_Name	State_Name	IATA_Co
VALDIVIA/AD PICHAY	SCVD	1	Valdivia	CHILE	ZAL
DODOLA	HADO*	0	<Null>	ETHIOPIA	<Null>
YANGJIANG/HESHAN					<Null>
SANTAREM/TMA					STM
KAMARAN					KAM
HURGHADA /INTL					HRG
XAXABA					<Null>
CARLANNE					<Null>
MT MASAVA					<Null>
GRAVELLOTTE					<Null>
TUKTOYAKTUK, JAMES GRUBE					YUB
BISHEKOLA					<Null>
NORFOLK/NORFOLK NS (CHAM					NGU
HAGUENAU					<Null>
GHAZNI					GZI
KINSALE GAS FIELD					<Null>
WVANGELA					GLZ
BREDA/GILZE-RUIEN					YVC
LA RONGE (BARBER FIELD), SK					<Null>
SHAWBURY					<Null>
VENDAYS-MONTALIVET					<Null>
L4-PN (OIL PLATFORM)					<Null>
CUCUTA INTL/NORTE DE SANTA					<Null>
MOORES ISLAND					<Null>
CAYENNE (ACC-UAC-NOF)					<Null>
RIDDELL					<Null>
HATO EL JABILLAL, TRUJILLO					<Null>
CEPUNGLONGRAM					VKT
VORKUTA					GJM
GUAJARA-MIRIM/GUAJARA-MIR					CLF
COLTISHALL					<Null>
ALTO DEL CARMEN/AD TRES G					BLQ
BOLOGNA/BORGO PANIGALE					<Null>
PORMPURA/AAW					<Null>

Layer Properties

General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates Time HTML Popup

Extent

Top: 82.517778 dd

Left: -179.877222 dd Right: 179.952778 dd

Bottom: -90.000000 dd

Update Extent

Data Source

Data Type: Query Feature Class

Name: afs.AFS_USER.7910ed145

Client: sqlserver

Instance: sp-dbsvrer1.icao.int/sharepoint_dnz

Location: afs

User: afs_user

Feature Type: Simple

Geometry Type: Point

Geographic Coordinate System: GCS_WGS_1984

Datum: D_WGS_1984

Change Query

OK Cancel Apply

Doc 7910/140

- ☒ afs.AFS_USER.7910ED146TEST
- ☒ Letter Index Nation
- ☒ IndexLetIdent
- ☒ LimiteLetIdent
- ☒ 7910 loc Indicator
- ☒ 7910ed145
- ☐ 7910ed140
- ☐ 7910ed137
- ☐ 7910ed135
- ☐ 7910ed134
- ☐ Aerodrome
- ☐ airportjm
- ☐ Runwaywgs
- ☐ ICAOFIR09
- ☐ center in charge
- ☒ RegOffice

7910 SQL LIN

Latitude:19.715265 Longitude:9.368084

GOOO

500 km

400 mi

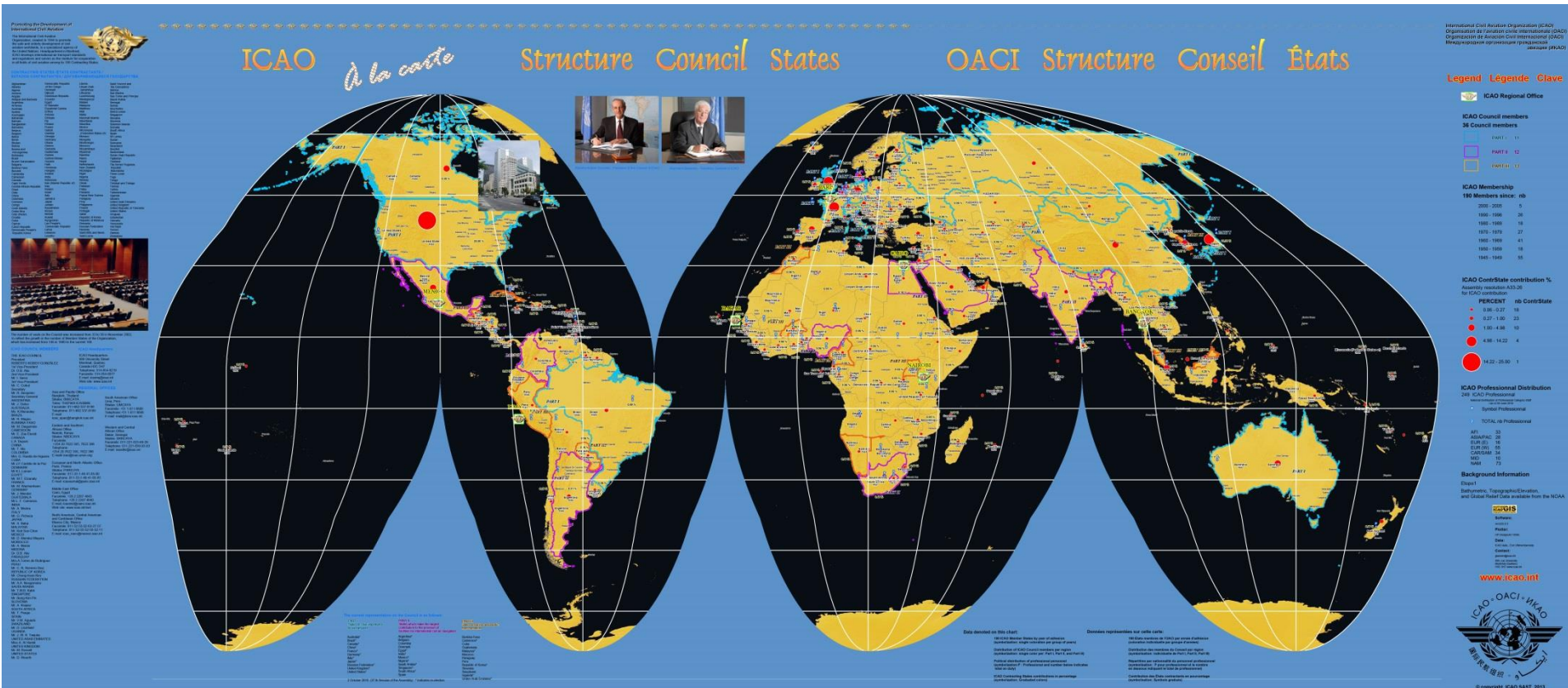
Internet 100%



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ICAO 2010 membership structure





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Plotter remote interface

Submit job
Status
Supplies
History
Usage
Accounting



Paper				
Paper source	Status	Type	Width	Length
Roll 1		HP Universal Bond Paper	914 mm	Unknown
Roll 2		Photo Gloss Paper	914 mm	Unknown

[Buy paper now](#)

Cancel Hold Continue Reprint Move to front Delete Job properties Go Back

File name: ICAOmembershiplocal2012updatebig
Loaded paper: Roll 914 mm wide
Job dimensions: 914 x 2108 mm

Nesting may alter the layout of the job

Page layout



Job preview



Done

Internet

100%



VHF air/ground communication frequencies

Global Frequency and SSR II co... x +

gis.icao.int/FF1/FF1.php

Google

Uploaded/Modified: 29 November 2013 by
[Gilbert Lasnier](#) and [Robert Witzen](#)

This website requires the most recent version of Firefox, Google Chrome or Internet Explorer 10.
Firefox or Google Chrome are faster than Internet Explorer.
For internet Explorer turn off **"Compatibility Mode"**.
This website can best be viewed with Firefox.
Not tested for Internet Explorer 8 or 9.
Using Internet Explorer 7 fails.
[Using Internet Explorer 7 fails.](#)

This website has been specifically designed for use with Firefox. Firefox can be freely downloaded from [here](#)

This web site contains the ICAO Global Database of Frequency assignments for VHF COM systems operating in the frequency range 117.975 - 137 MHz as well as radar data extracted from the Regional Air Navigation Plans. For the purpose of coordinating SSR Mode S II codes, the [assigned] SSR codes are also presented.
The Global Databases for frequency assignments for VHF/UHF NAV systems, NDB and HF frequency assignments are in preparation.
The database on this website is only for testing and evaluation purposes and is not up to date. The updated (final version) of the databases is to be implemented on a Region-by-Region basis around March 2014.

For instructions for downloading and saving the database and related programs click [Click](#)

Select country:

Global	Afghanistan	Submit Query
AFI	Algeria	Submit Query
APAC	Afghanistan	Submit Query
CAR	Anguilla	Submit Query
EUR	Albania	Submit Query
MID	Bahrain	Submit Query
SAM	Argentina	Submit Query

Data is presented in location order

VHF-COM

VHF-COM

Buttons for viewing and downloading Global or Regional COM lists

GLOBAL DATABASE	GLOBAL DATABASE
AFI Region	AFI Region
APAC Region	APAC Region
CAR Region	CAR Region
EUR Region	EUR Region
MID Region	MID Region
SAM Region	SAM Region

Downloading of the Global or Regional COM lists into your web browser can take more than 2 minutes. A high speed internet connection is required. The COM lists can be imported into Frequency Finder or an Excel file.

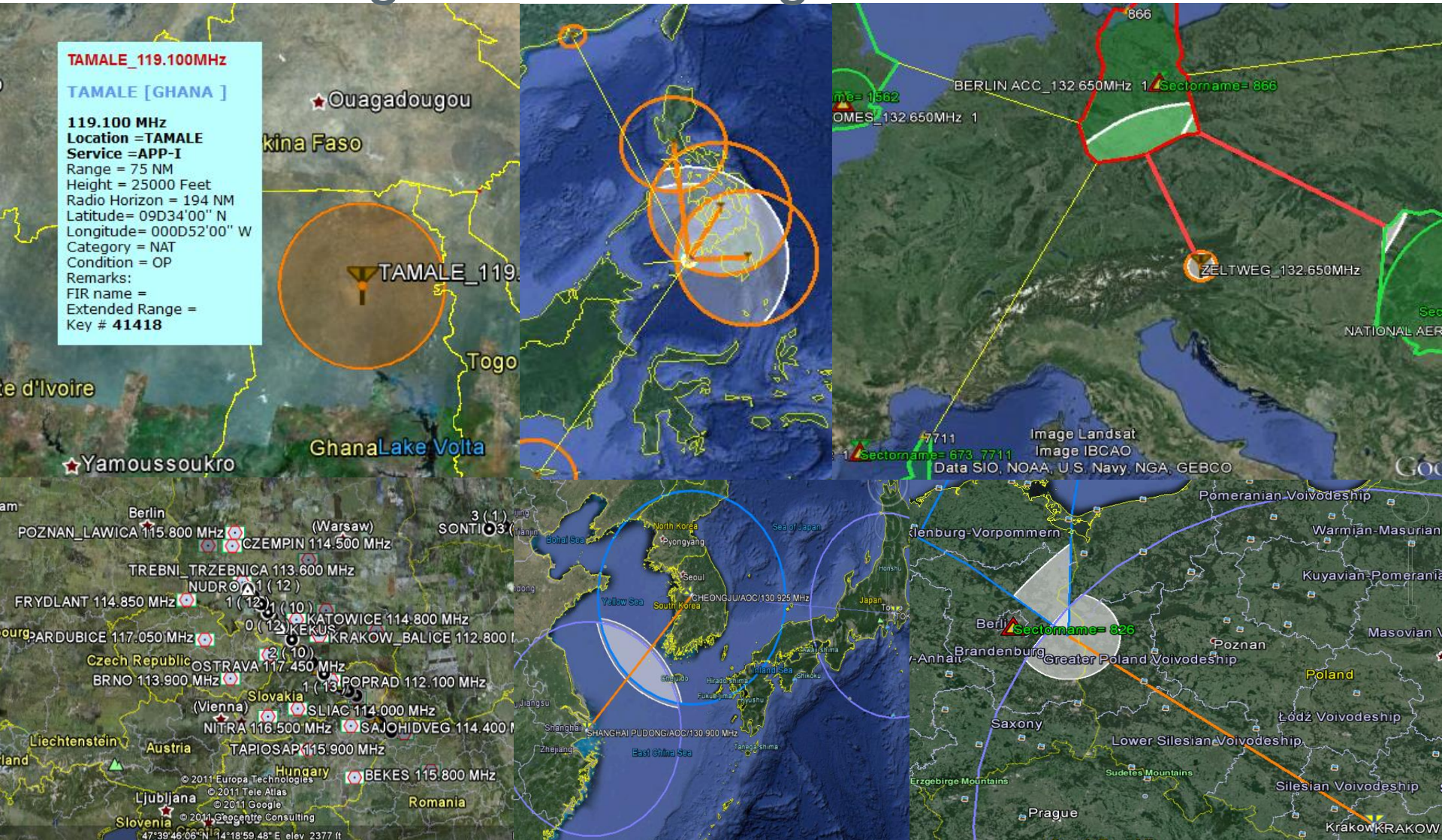
Country order Frequency order

Click one of the buttons "Global database" or "xx Region" to find the frequency assignments of the Global database or the relevant Regional data base of frequency assignments.
Select a country from the drop-down list and click "Submit Query" to find the data base of all frequency assignments for a single country.
The data that is presented is in the format of the current COM lists. However, from the list showing the frequency assignments for a single country, with the button "view" all data that has been incorporated in the data base can be viewed.

Buttons for viewing and downloading Global or Regional RADAR/SSR lists

Filemaker Pro interface
Synchronisation of the data base for the Regional Officer
And KML exchange...

VHF air/ground coverage and interference





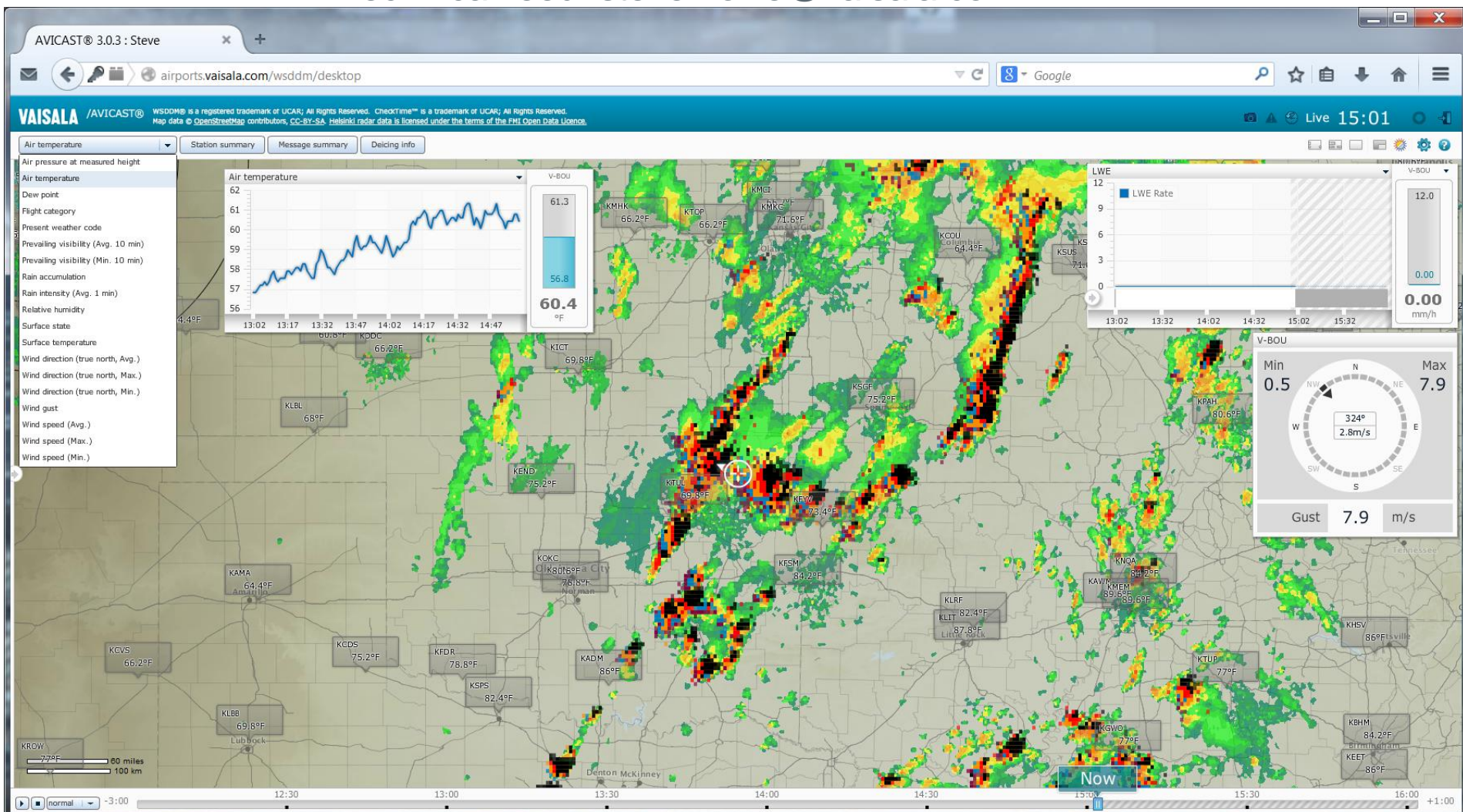
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Weather services: Contact site: www.vaisala.com/en/airports

Contact: nick.demetriades@vaisala.com

Technical feed: steve.howe@vaisala.com



Traffic flow services example

Flight Tracking in 3D with Fligh... x +

flightwise.com/flighttracking/

Google

PDT 07:37 | MDT 08:37 | CDT 09:37 | EDT 10:37 | UTC(Z) 14:37


Login | Register | Subscribe

flightwise
(formerly flweb.com)

Tracking | Aero Info | Pilot Services | Forums | Operations | My Account

HOME > Google Earth/3D Flight Tracking Demonstrations

Wednesday, October 01, 2014


 **FLIGHT TRACKING**

3D Flight Tracking
(requires Google Earth)

Check out live flight tracking for these major airports in 3D using Google Earth!
(LAX) Los Angeles Int
(BOS) Boston's Logan Int
(ORD) Chicago O'Hare
(ATL) Atlanta Hartsfield
(JFK) JFK International
(MIA) Miami International
(SEA) Seattle/Tacoma
(SFO) San Francisco Int

This is a demo page; click for advanced flight tracking!


Currently tracking 4824 flights




Track a specific flight

AirTran

Track in 2D

or in 3D with 


News and Announcements


 iPhone / iPod Flight Tracker App!

START DOWNLOAD

3 steps to Fast Maps & Directions

1. Click Start Download
2. Free Access - No Sign up!
3. Get Free Directions & Maps

 online map finder™

 **Busiest Airports**

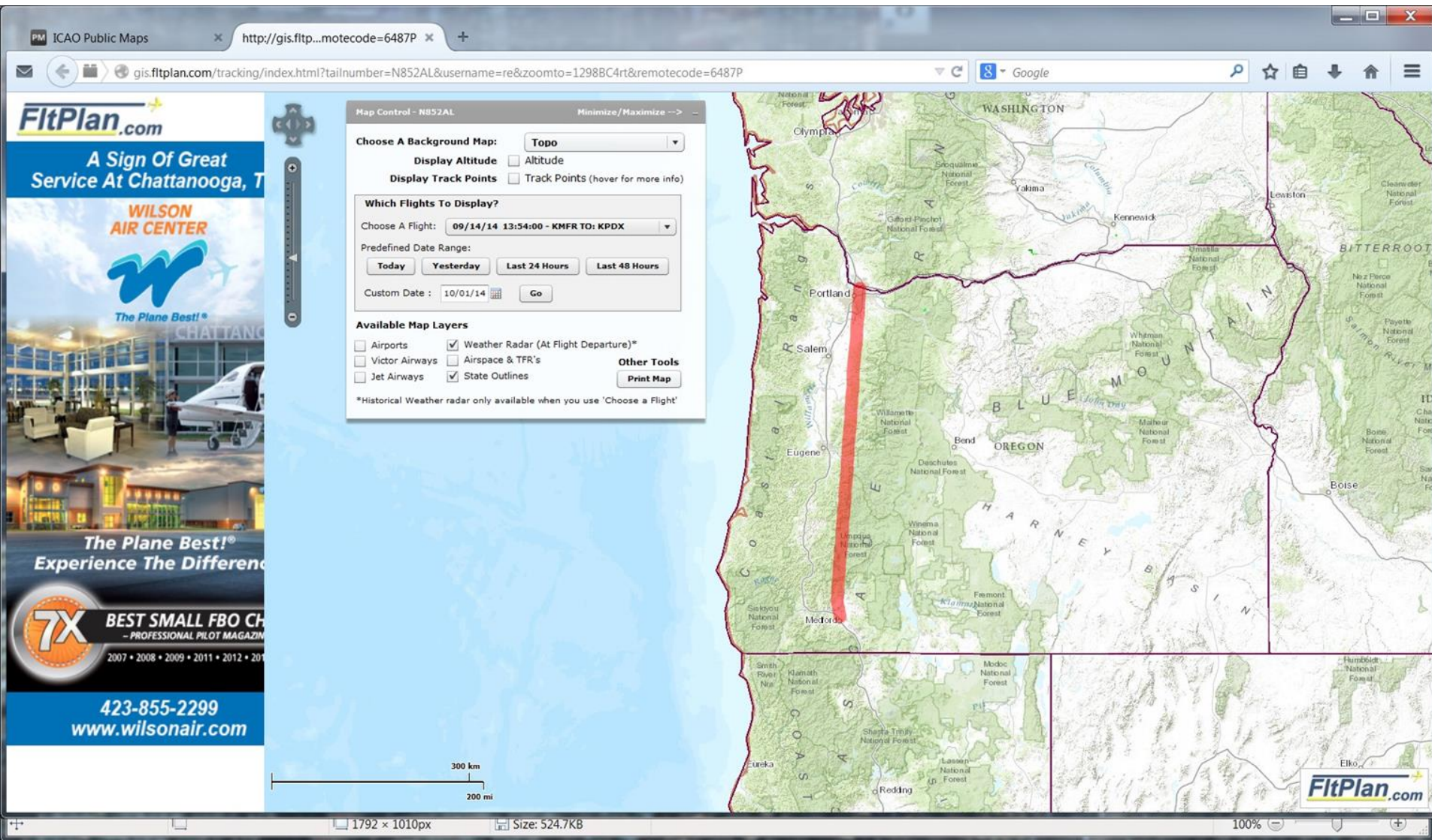
Airport Activity

Airline Activity

Airport	# Arrivals	Next In Line	ETA	Status
DEN DENVER INTL	152 arrivals, 124 last hr	ASQ5936	8:37 AM MDT	

1792 x 1010px | Size: 524.7KB | 100%

Traffic flow services example





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geojson.io

geojson.io/#map=3/23.00/-61.00

Open Save New Share Meta unsaved

Mapbox Satellite OSM

Feedback, About, © Mapbox © OpenStreetMap Improve this map

1792 × 1010px Size: 524.7KB 100%

JSON Table ? Help anon | login

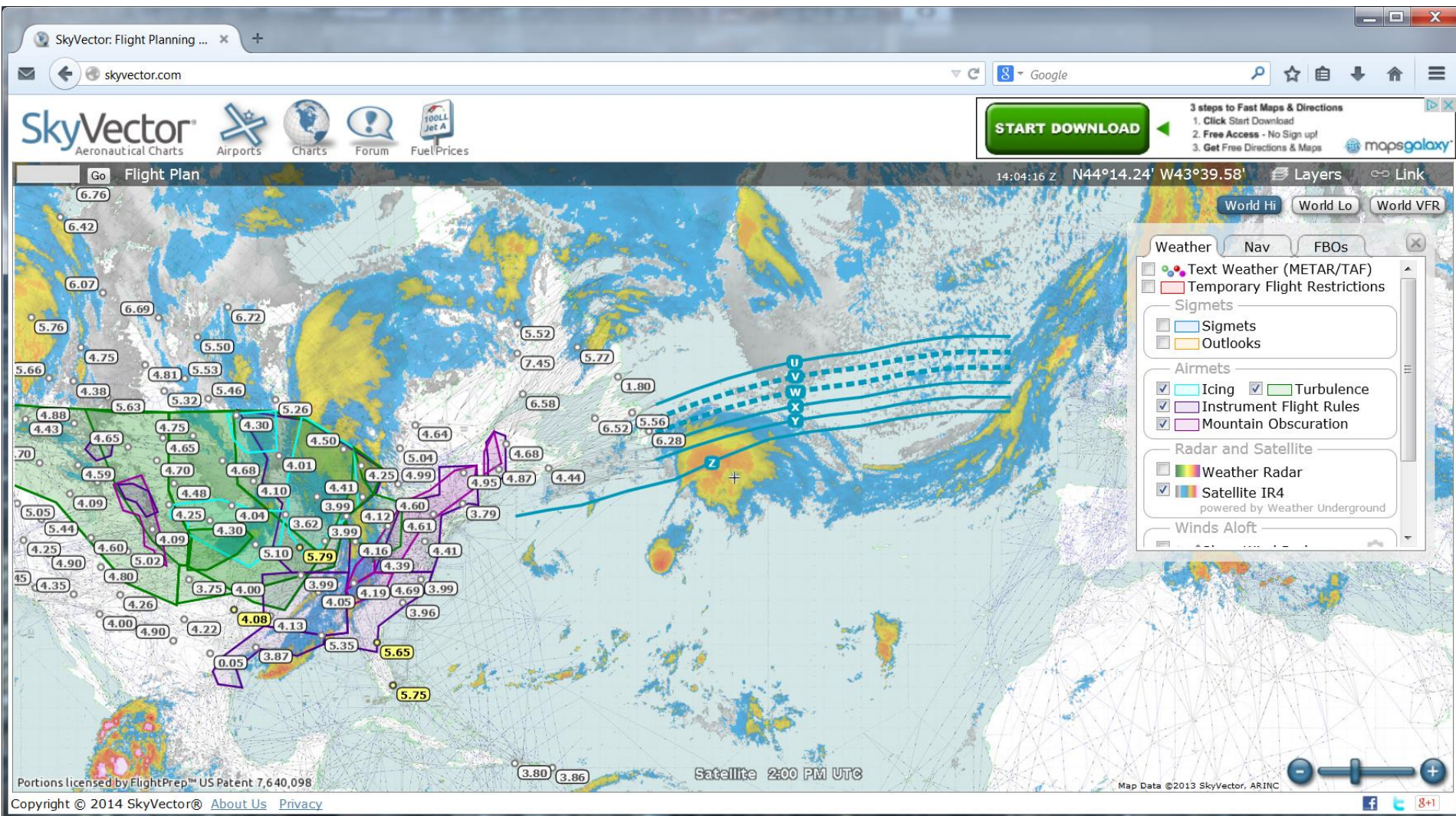
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3   "features": [
4     {
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7       "geometry": {
8         "type": "LineString",
9         "coordinates": [
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12            41.244772343082076
13          ],
14          [
15            -55.72265625,
16            43.45291889355465
17          ],
18          [
19            -23.90625,
20            41.244772343082076
21          ],
22          [
23            -0.87890625,
24            47.635783590864854
25          ]
26        ]
27      }
28    }
29  ]
30 }
```



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GIS services SkyVector







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Questions and Comments



Created by Gilbert Lasnier
Special thanks to ICAO ICT, Magda Morawski
ESRI



and NGA



for the support an more...