

GOOGLE EARTH

INTRODUCTION

2013

Overview

- * Why Google Earth / Maps
- * Start, install and setup Google earth
- * Highlight some features and how to's
- * Practical - Use your earth.

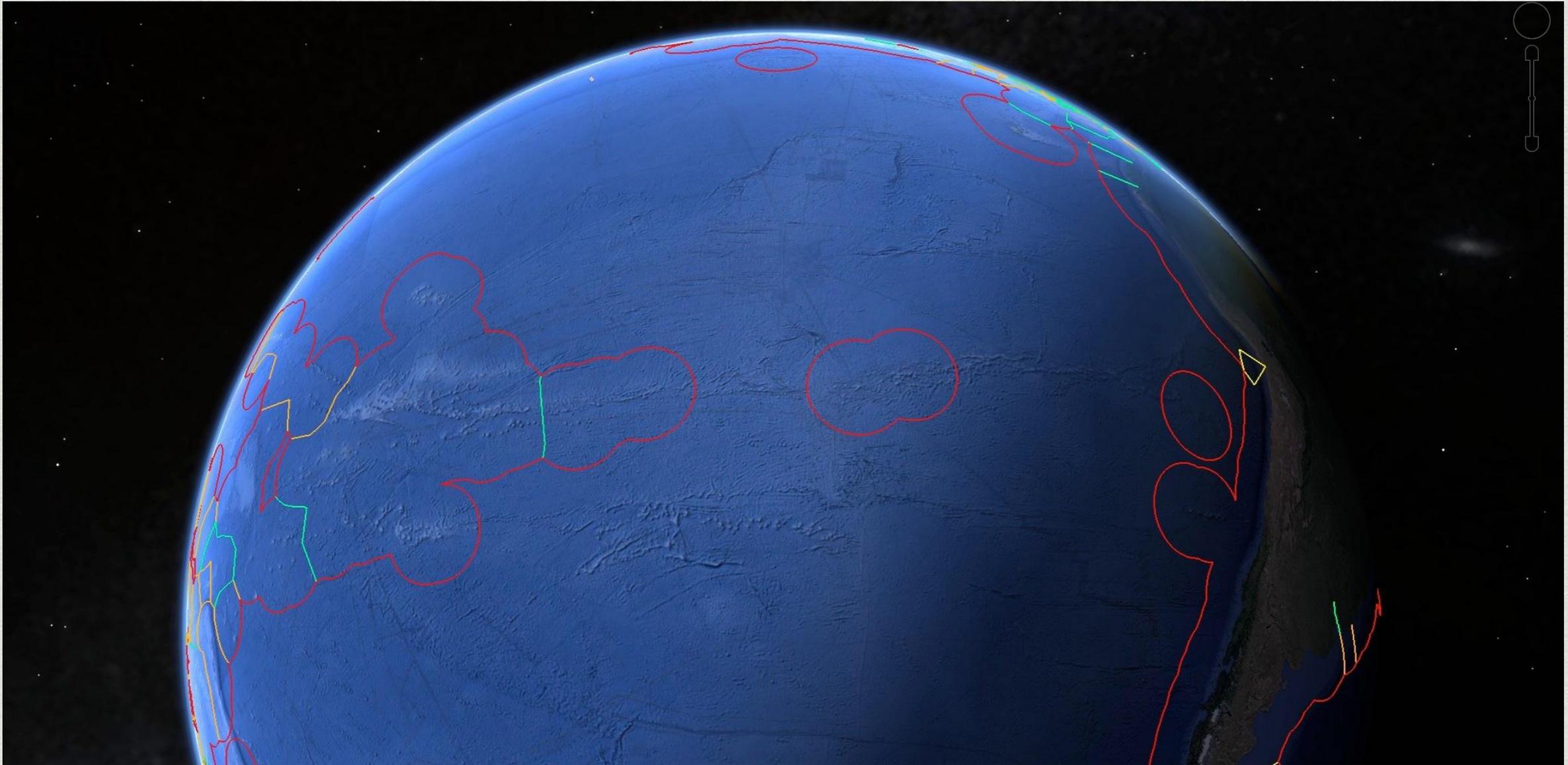
Why Google Earth

- * Keyhole Markup Language (KML),
- * Standardised file for geography like PDF
- * Open standard developed by Google.
- * KMZ = Zip Compressed KML
- * Google Earth is one application that uses KML, QGIS is another

Why for Artisanal

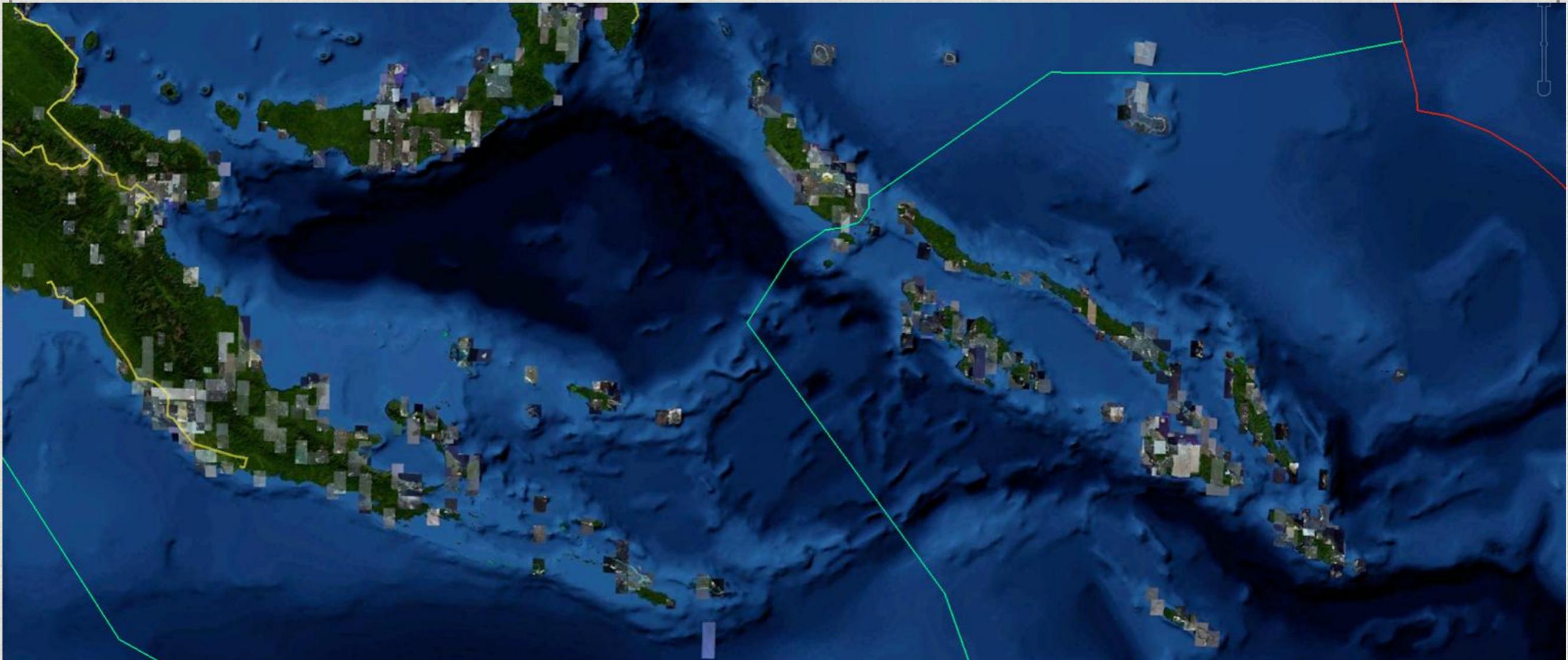
- * Complimentary to High End GIS (eg QGIS)
- * Great Viewer
- * More accessible to artisanal fisher-people
- * Easy and Fun?

Installing



<http://earth.google.com>

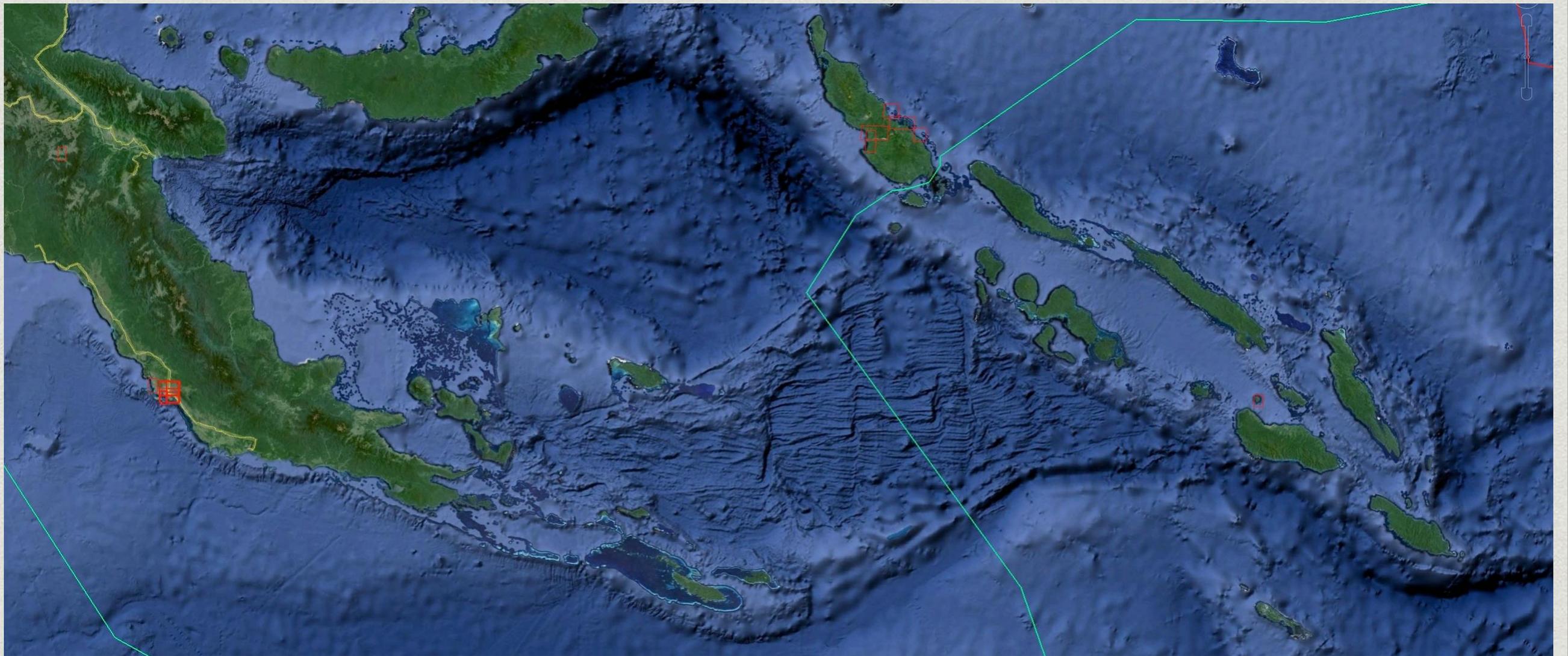
Imagery



Different Resolutions

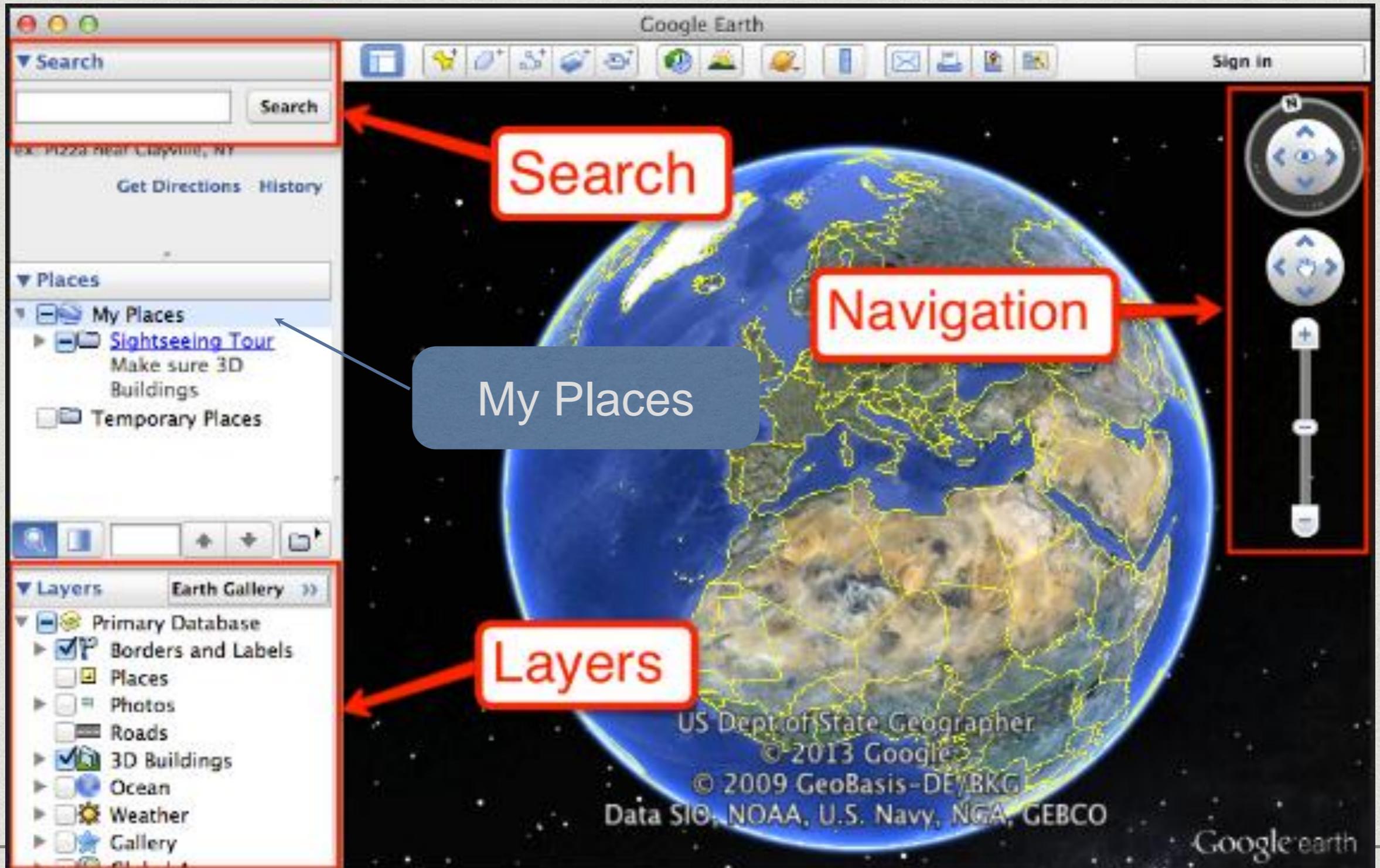


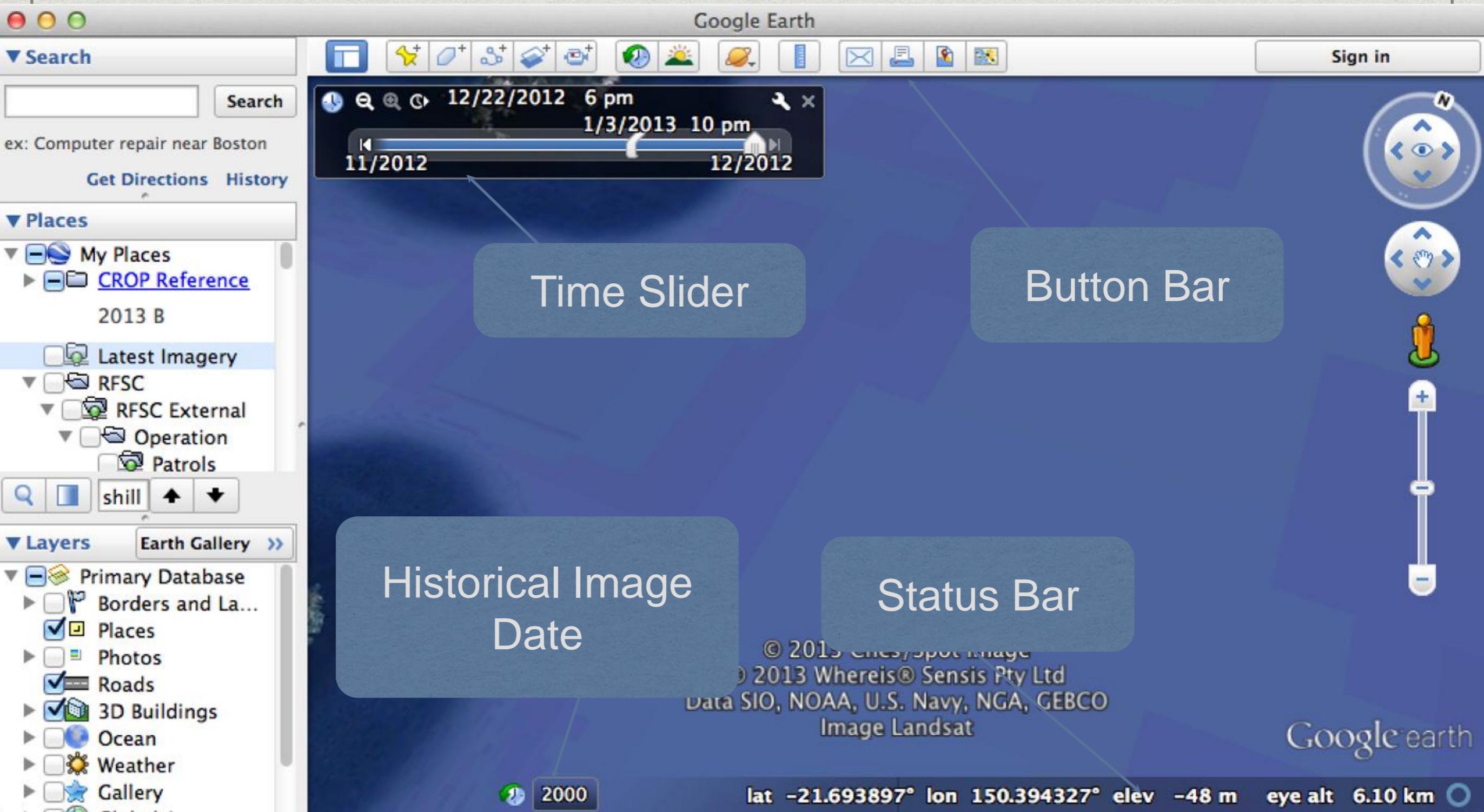
Imagery



<https://followyourworld.appspot.com/>

Starting





Google Earth

Sign in

Search

Search

ex: Computer repair near Boston

Get Directions History

Places

- My Places
 - CROP Reference
 - 2013 B
 - Latest Imagery
 - RFSC
 - RFSC External
 - Operation
 - Patrols

skill

Layers

Earth Gallery

- Primary Database
 - Borders and La...
 - Places
 - Photos
 - Roads
 - 3D Buildings
 - Ocean
 - Weather
 - Gallery

12/22/2012 6 pm
1/3/2013 10 pm
11/2012 12/2012

Time Slider

Button Bar

Historical Image Date

Status Bar

2000

lat -21.693897° lon 150.394327° elev -48 m eye alt 6.10 km

Google earth

© 2013 Cnes/spot image
© 2013 Whereis® Sensis Pty Ltd
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat

Navigating

- * Navigation Panel
- * Mouse (ctrl, shift, option)
- * Keyboard (arrows, +/-)
- * Features.



* Layer Control

▼ Search

Search

ex: 1600 Pennsylvania Ave, 20500

[Get Directions](#) [History](#)

▼ Places

▼  My Places

▶  [CROP Reference](#)

2013 B

▶  Latest Imagery



 Temporary Places

▼ Layers

[Earth Gallery >>](#)

▼  Primary Database

▶  Borders and Labels

 Places

▶  Photos

 Roads

▶  3D Buildings

▶  Ocean

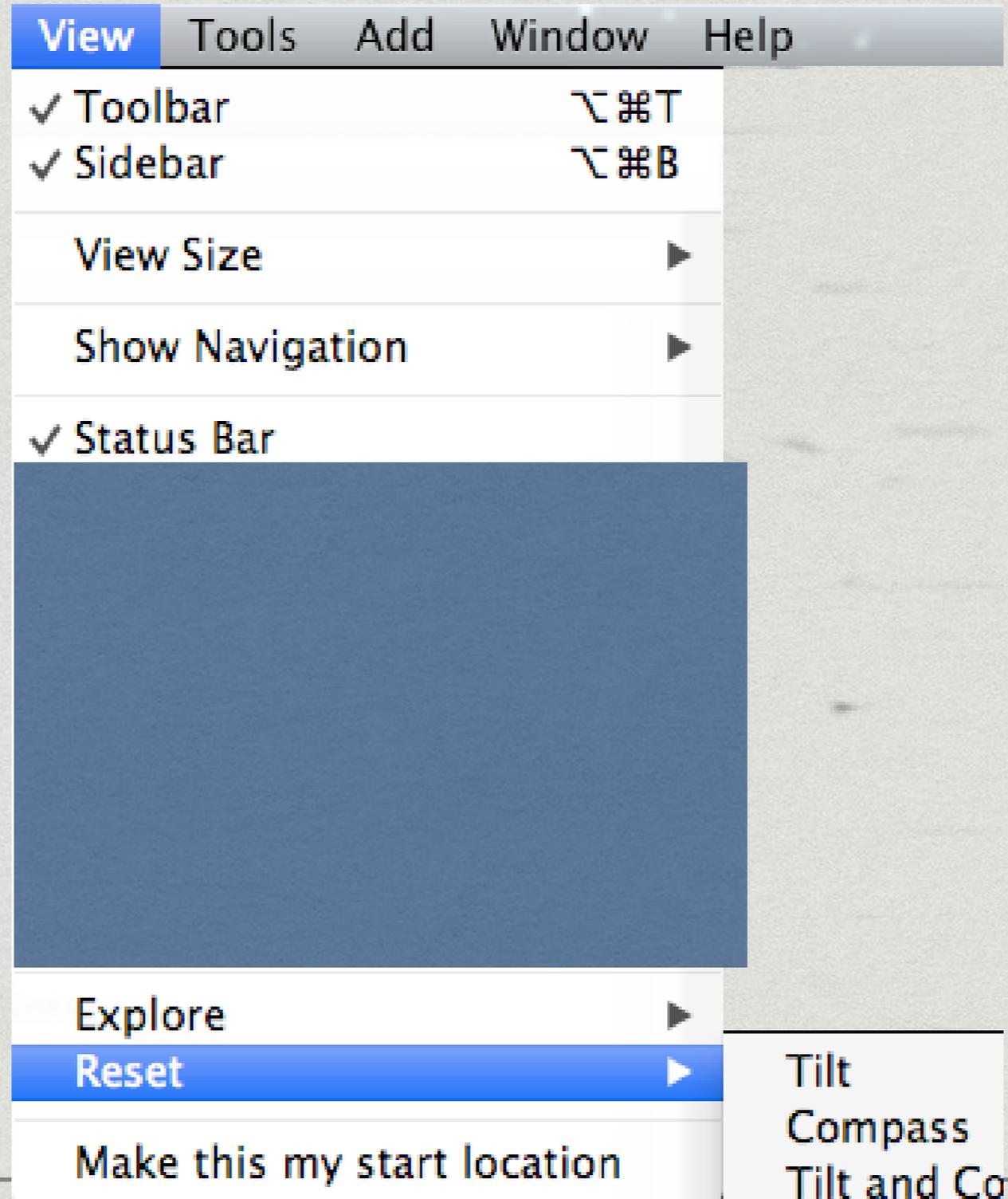
▶  Weather

▶  Gallery

▶  Global Awareness

▶  More

View Menu



Measure Distance

Ruler

Line | Path | Pro

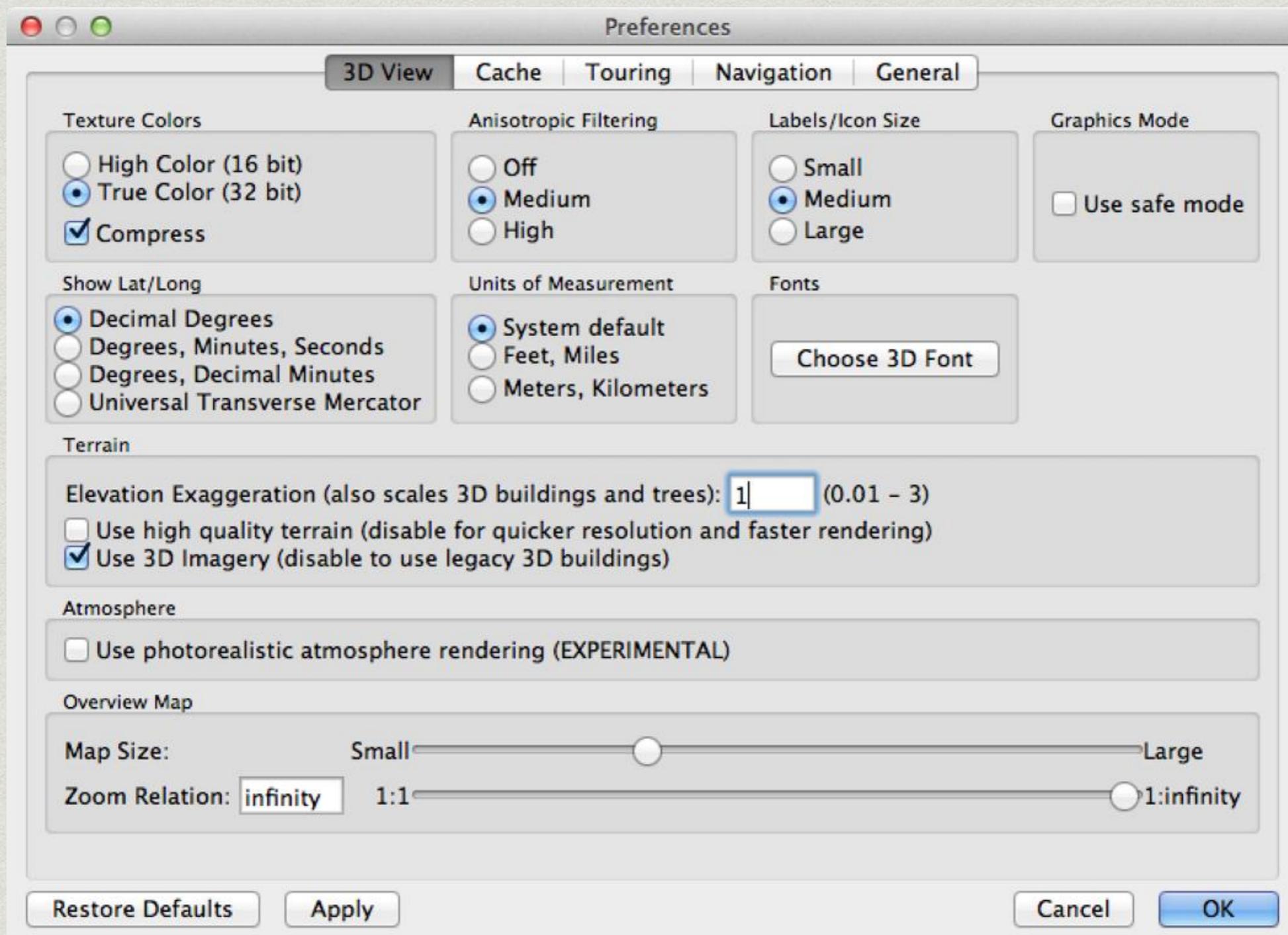
Measure the distance between two points on the ground

Map Length:	1,569.88	Kilometers
Ground Length:	1,568.99	
Heading:	59.35 degrees	

Mouse Navigation

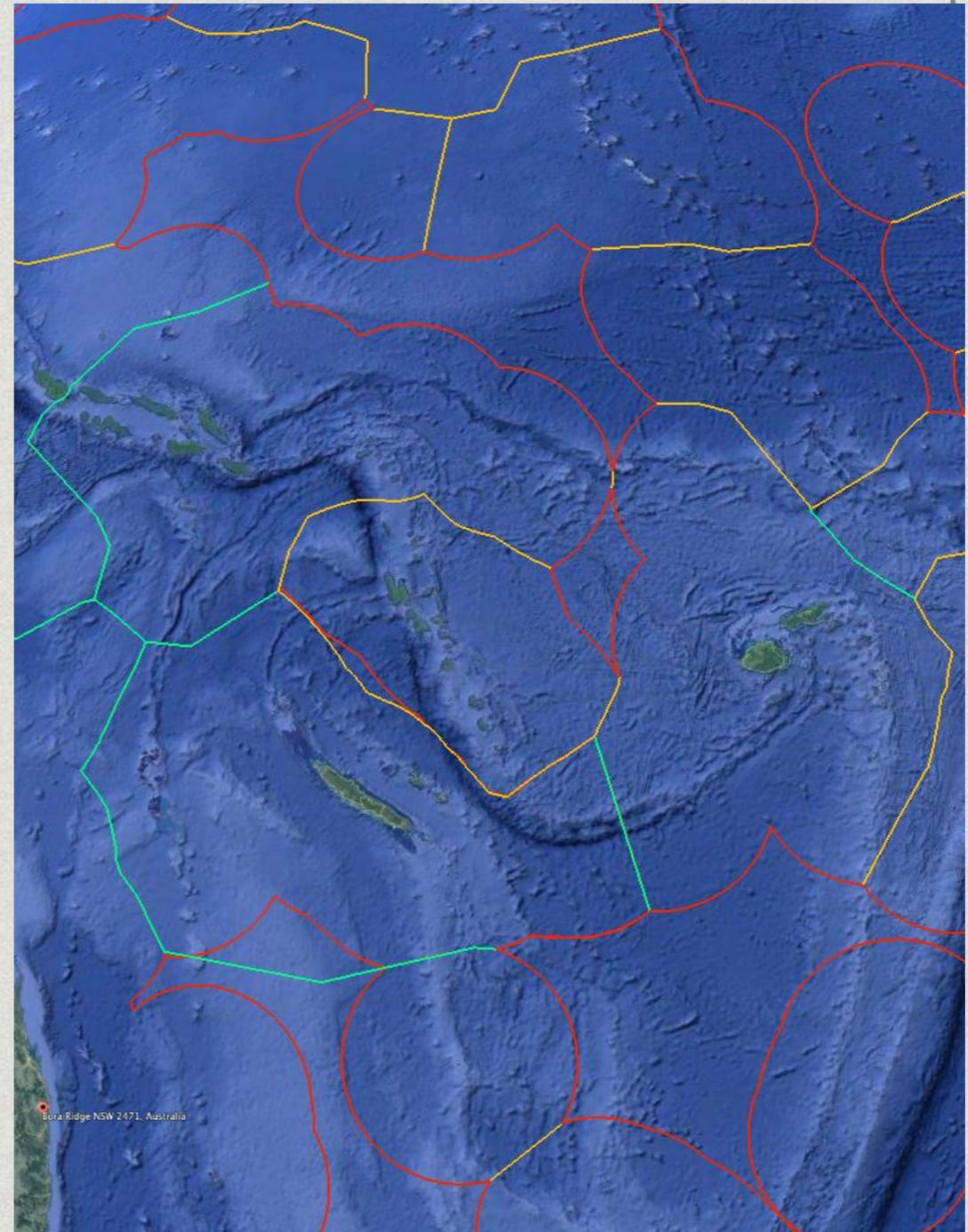
Save Clear

Options



Reference Layers

- * Open KMZ File, offline
- * Updates each Year
- * EEZ source available, redistributable, doc <http://www.marineregions.org/>
- * 12Nm/Coast - Performance

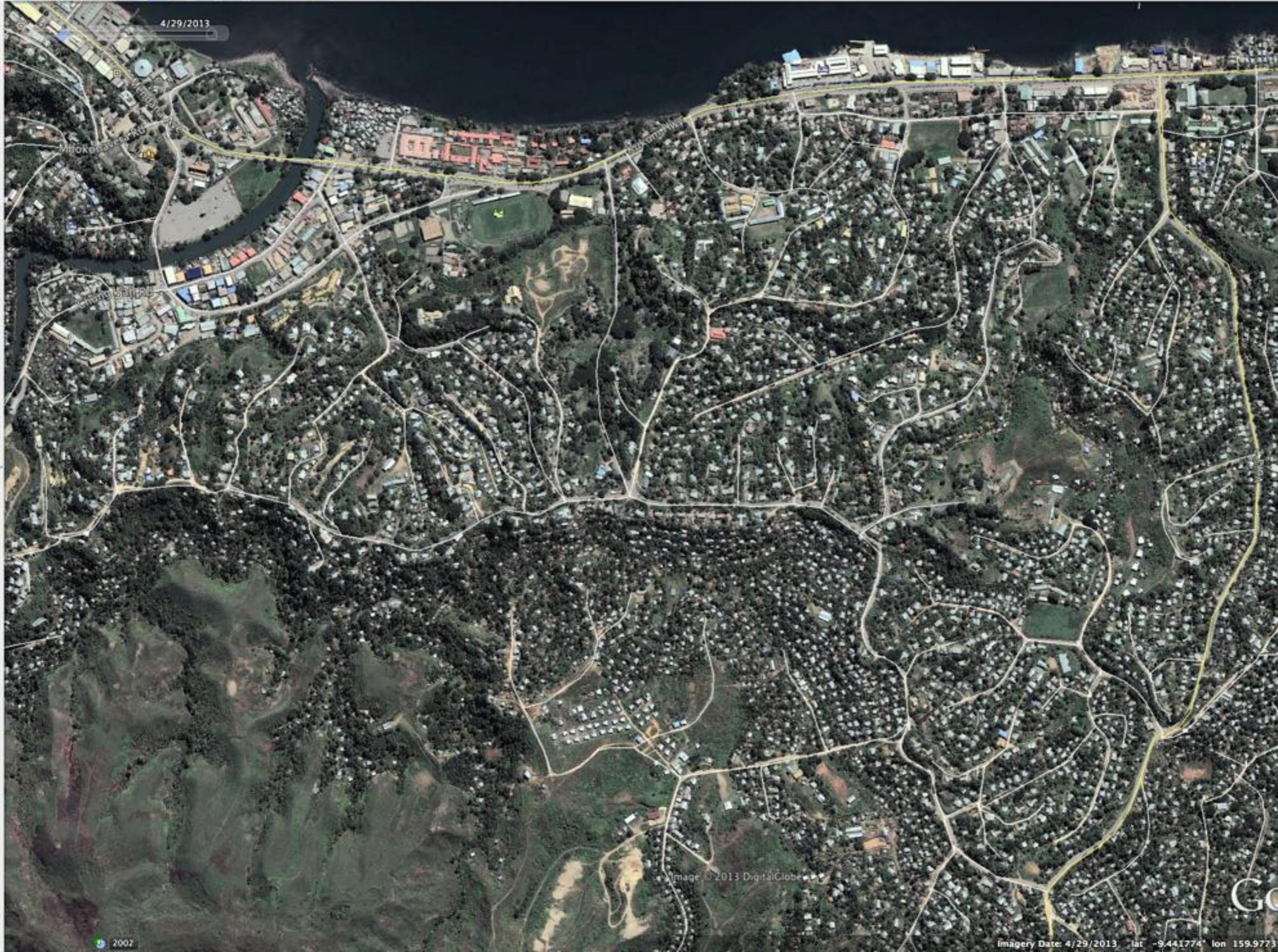


LOST



Historical Imagery

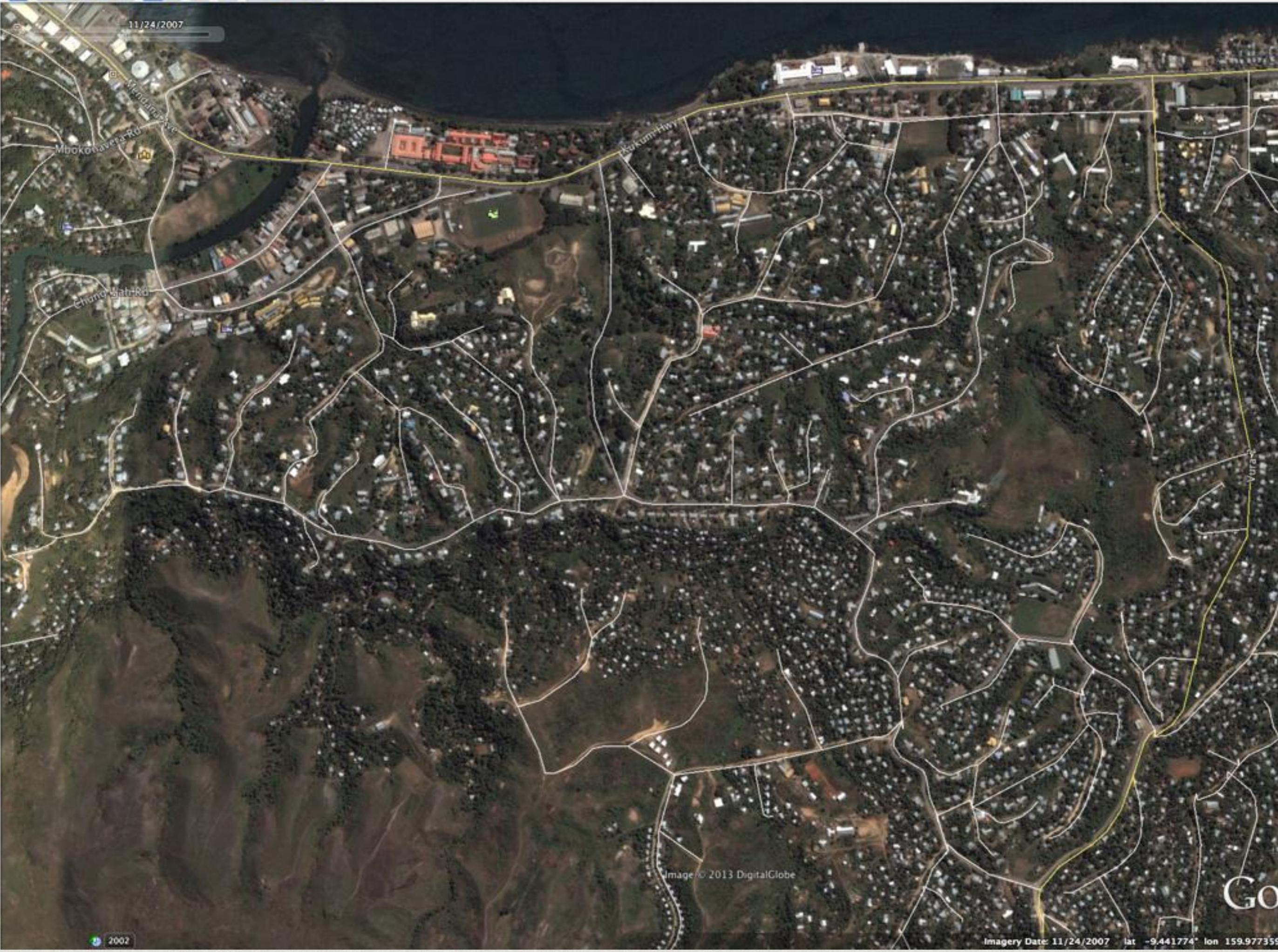
- * [View Menu / Historical Imagery](#)



Mhokosavato

Mhokosavato

11/24/2007



Mbokonaveta Rd

Chonov Satri Rd

Kokom Hwy

Vura

Image © 2013 DigitalGlobe

2002

Imagery Date: 11/24/2007 lat -9.441774° lon 159.977359

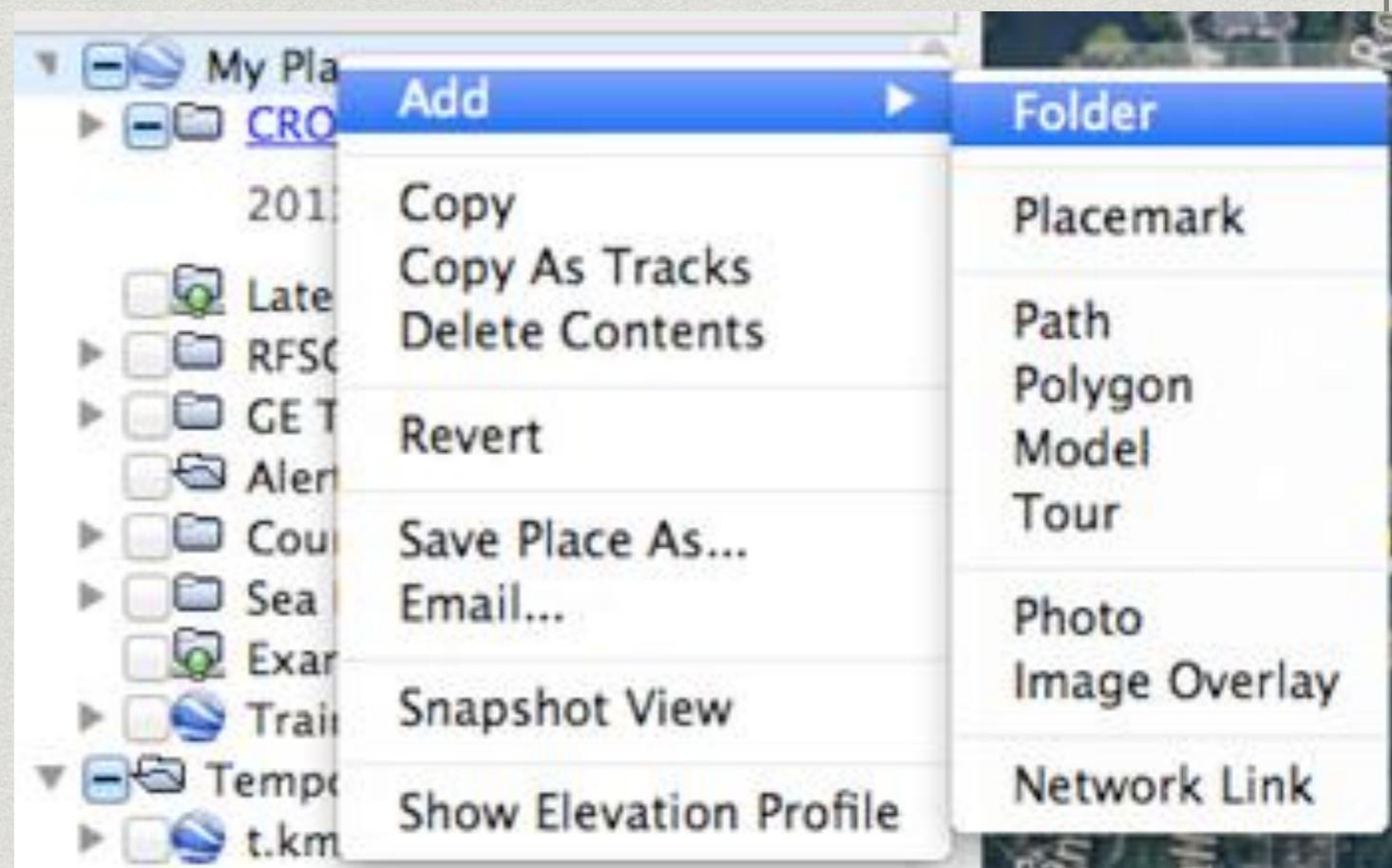
Go

Creating Data

- * Allow you to add your own data
- * Examples might be
 - * Patrol Plan
 - * MPA
 - * Zones
 - * Survey Locations

Folders Are Key

- * Right Click “My Places”
- * choose add / Folder
- * Name “Training”



Import GPS

Google Earth - GPS Import

Import Realtime

Device: Garmin
 Magellan
 Explorist
 Serial
 Wintec WBT-201
 Import from file

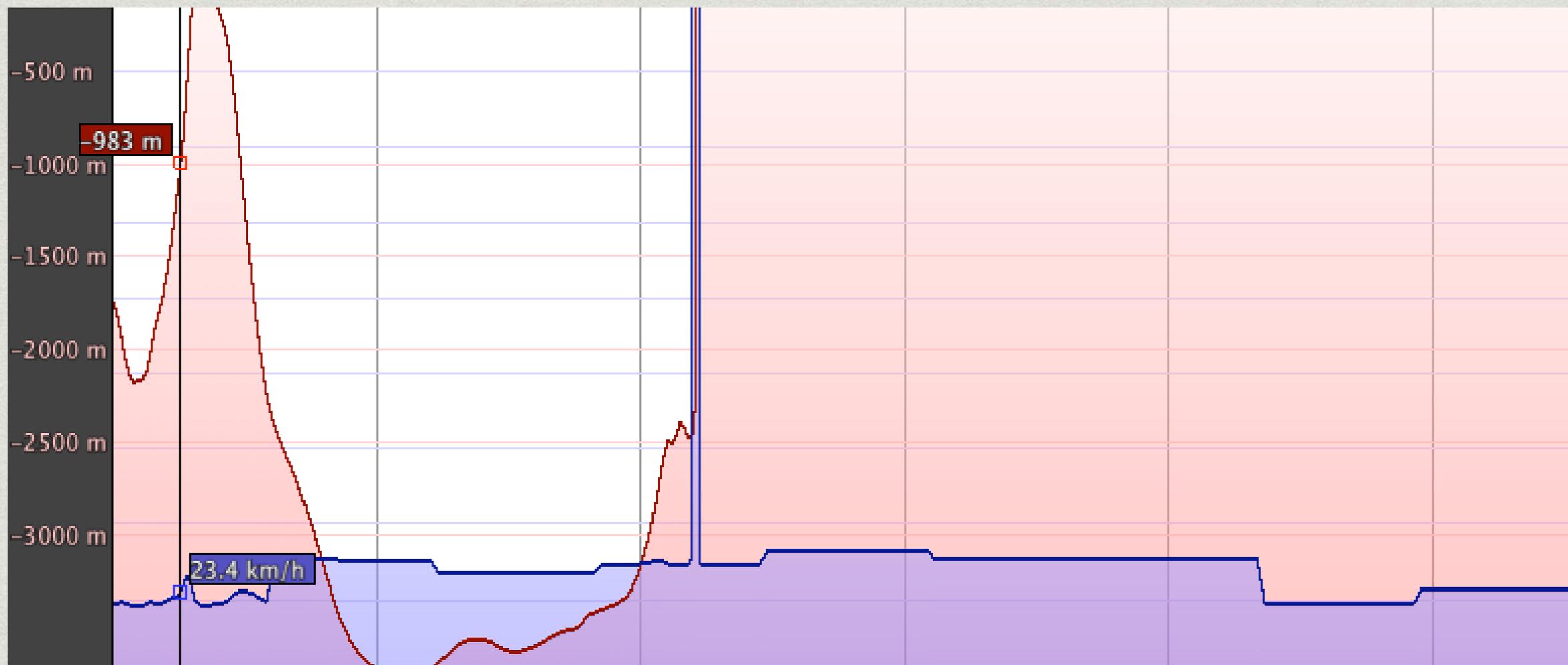
Import: Waypoints
 Tracks
 Routes

Output: KML Tracks
 KML LineStrings

Adjust altitudes to ground height

Import

Elevation Profile



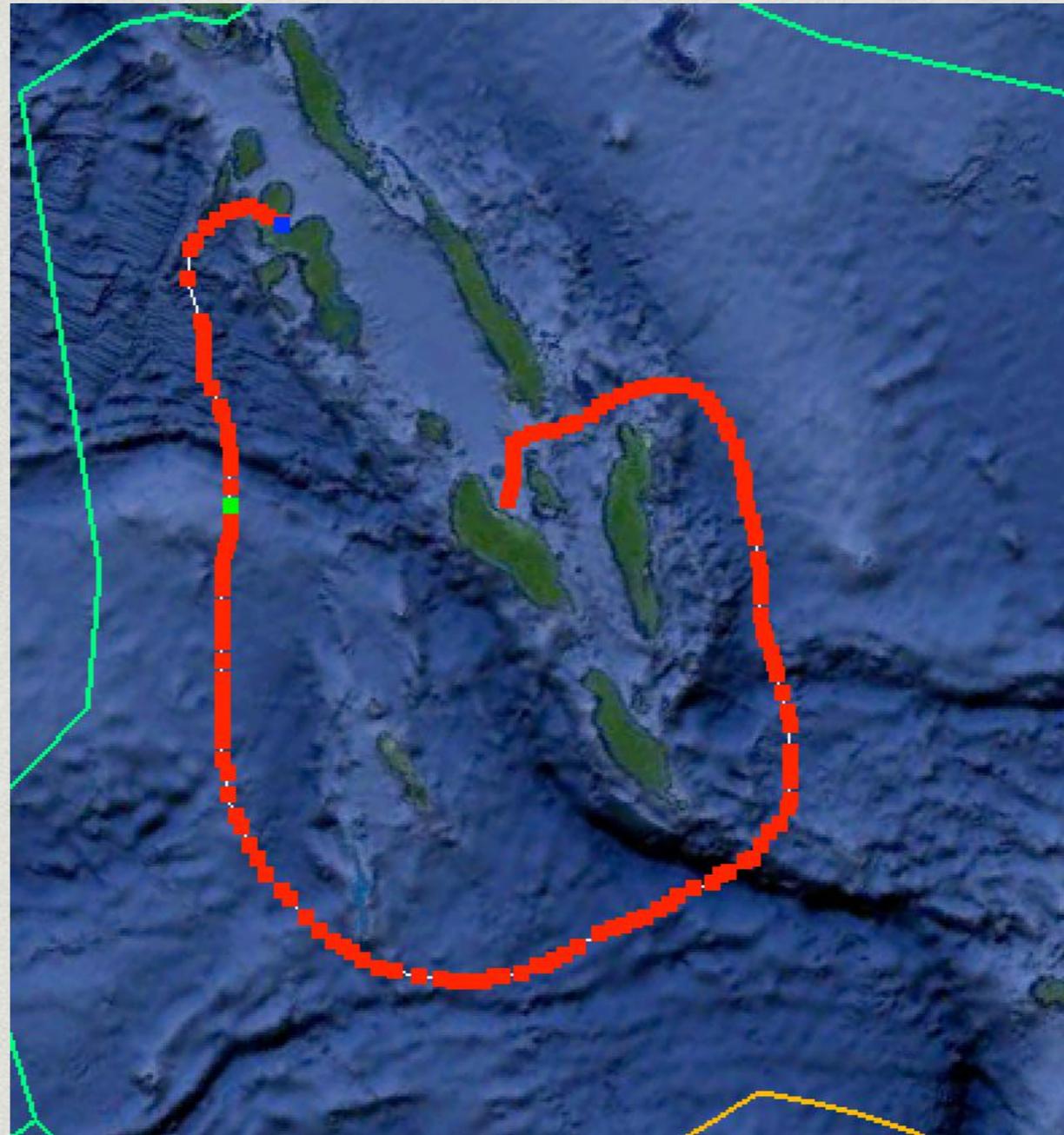
Add Features

- * From Tool Bar choose “Add Path”
- * Click to add the start point
- * Click to add the next point, and so on
- * Click and hold to trace a line

Editing the Line

- * Right click and choose info / properties
- * Note red points and one blue point
- * Blue is current point.
- * Mouse over and point becomes green. click

Sample Path Edit



Styling

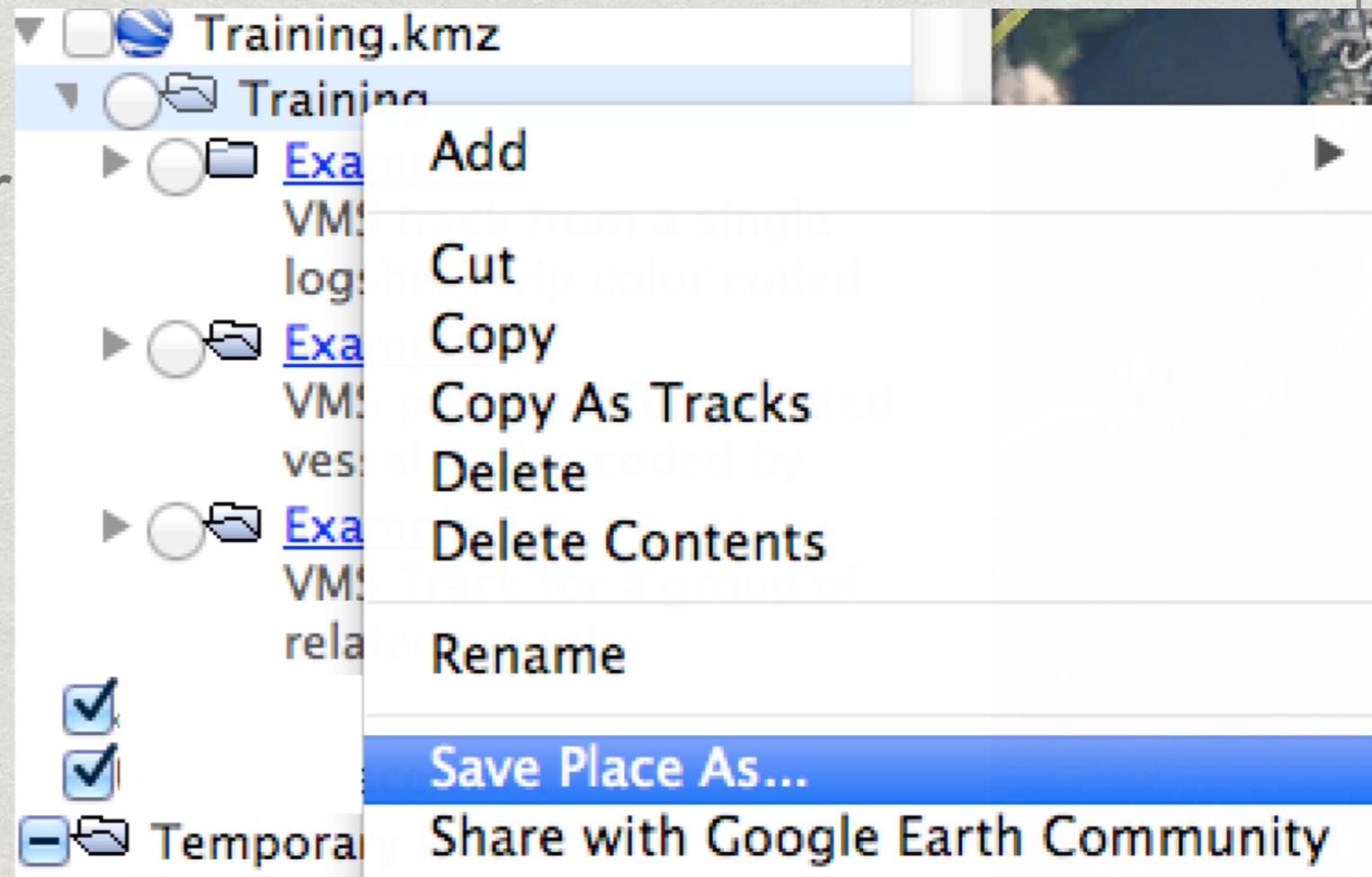
- * Info dialog for a feature
- * Style / Color Tab

Labels

- * Trick
 - * Points without icon
- * Add a point set icon to “No Icon”

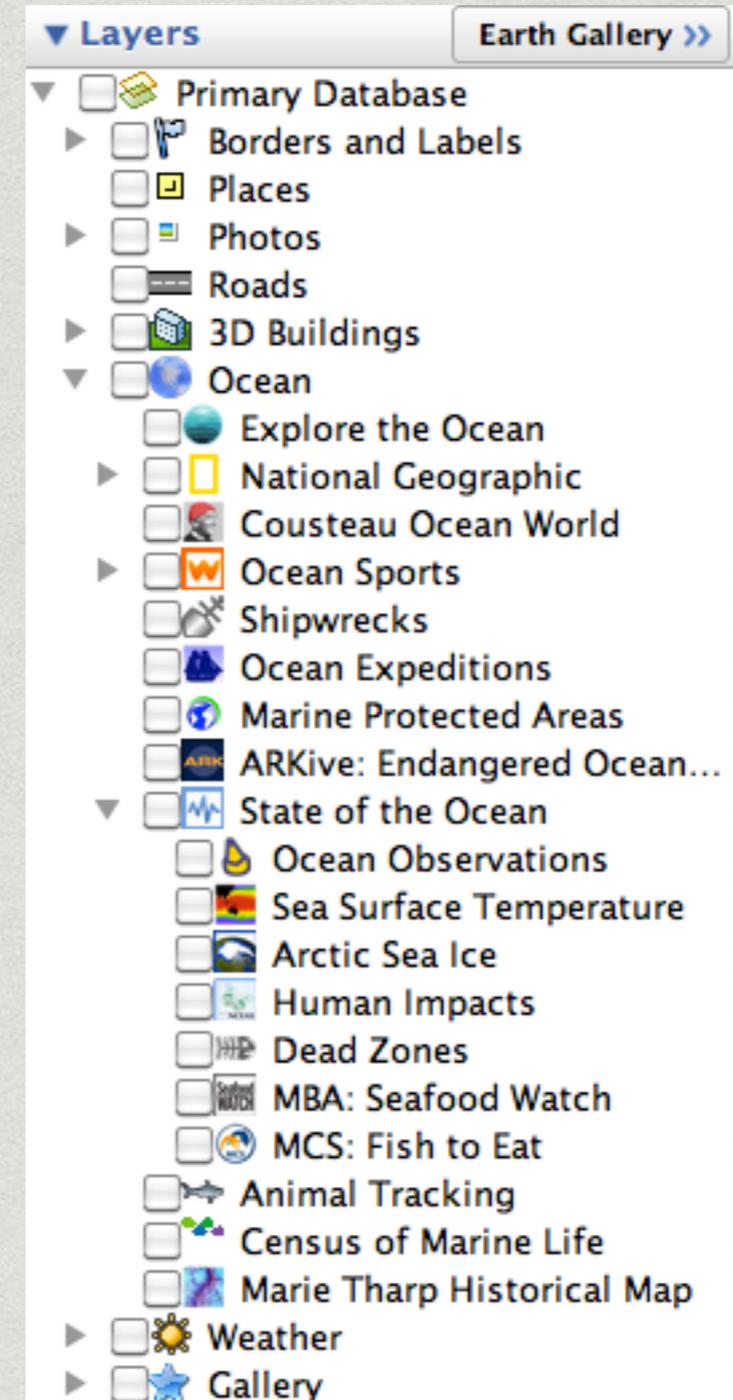
Saving Data

- * Right click on Folder and choose save as
- * KMZ is compressed version

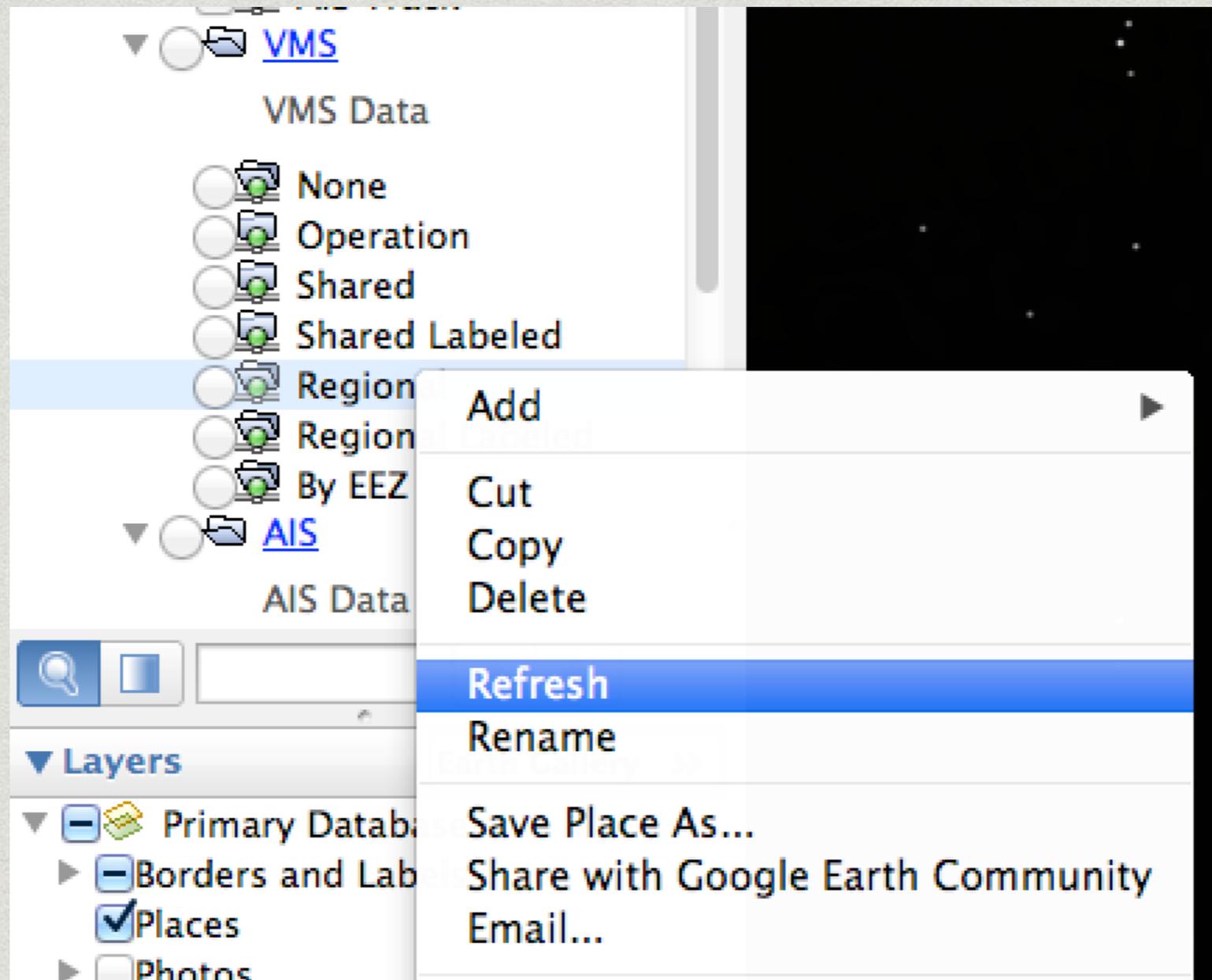


Data Sources

- * FFA Reference Layers
- * Google Earth “Ocean Layers”
- * “Earth Gallery”
- * <http://bbs.keyhole.com>



Network Link



Questions?



DEVFISH II

2011 - 2014



FFA



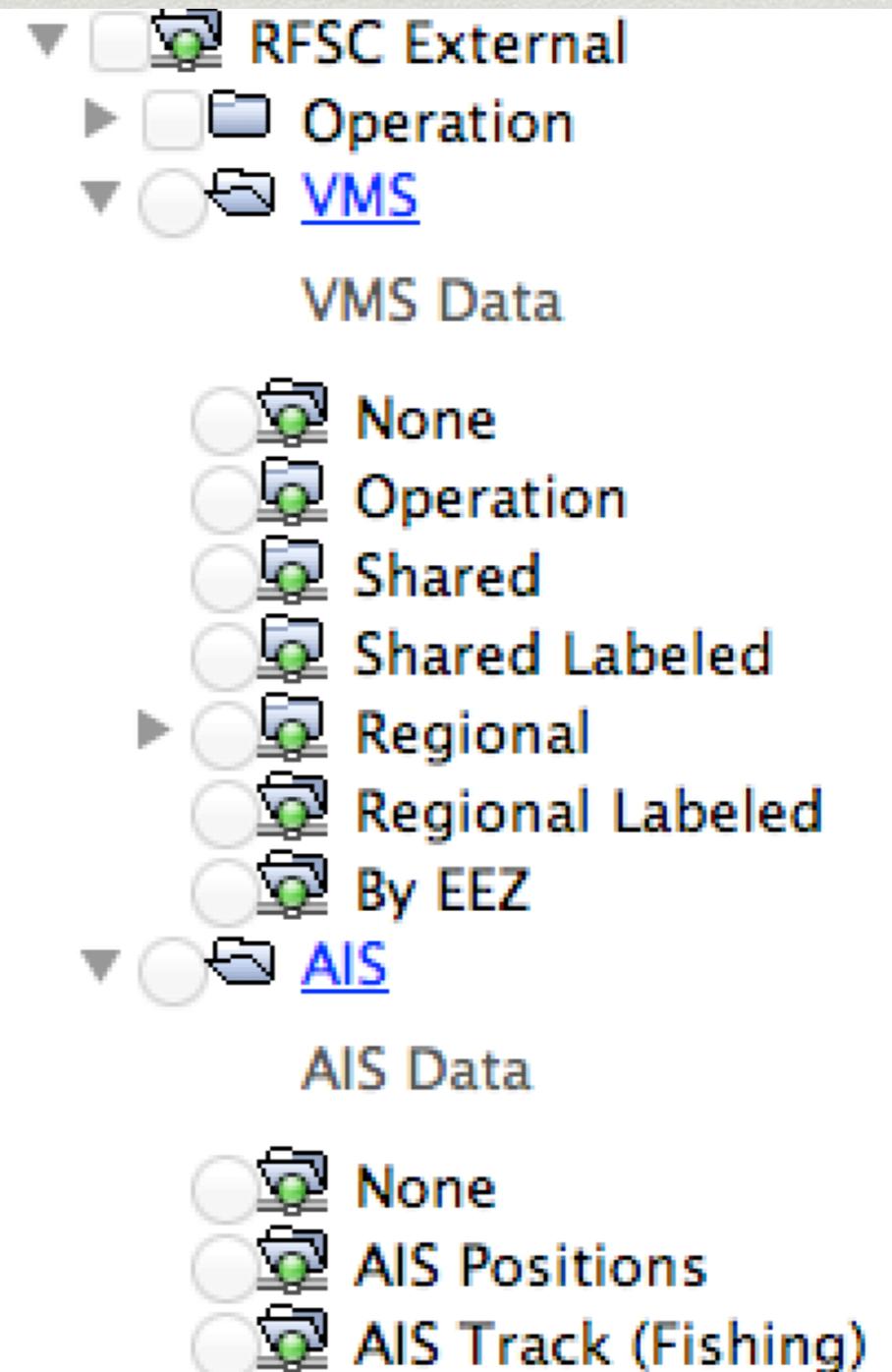
**EUROPEAN
UNION**



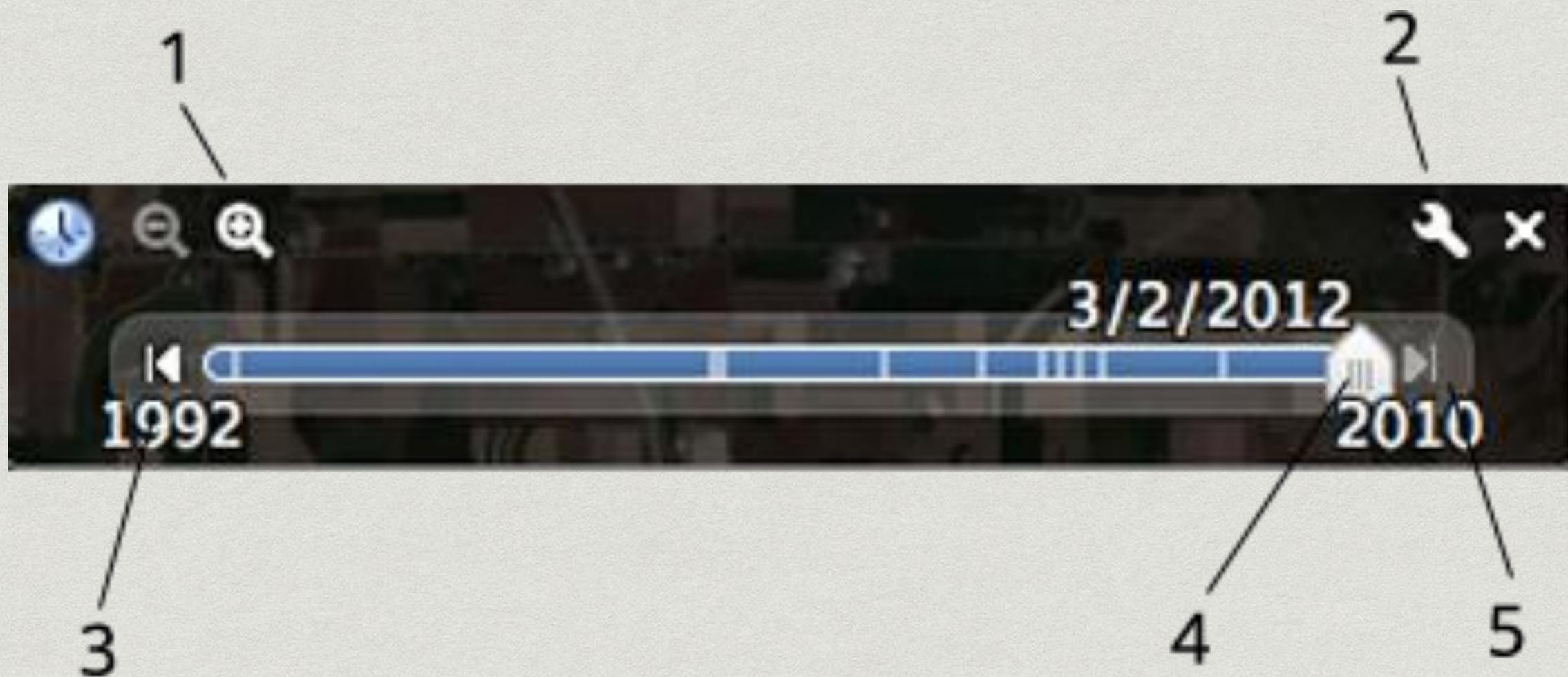
**Secretariat of the
Pacific Community**

Country KML

- * Country KML file supplied.
- * Just open KML file
- * Need to be online
- * AIS



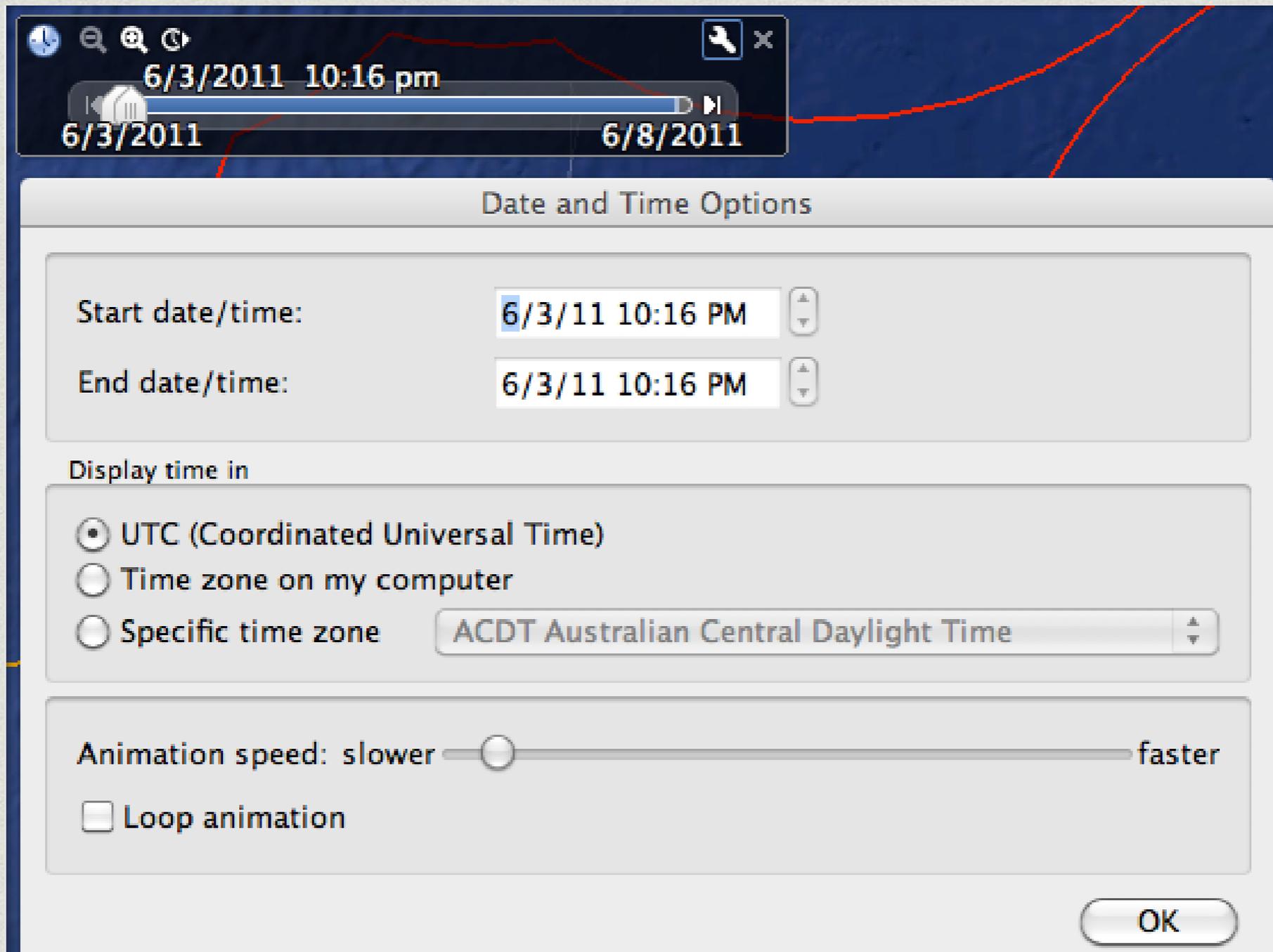
Time Slider



Time Slider Ranging



Time Slider Options



The image shows a software interface with a time slider and a configuration dialog box. The slider is positioned over a map, with a red line indicating a path. The slider's current position is labeled "6/3/2011 10:16 pm". The start and end dates of the slider are "6/3/2011" and "6/8/2011" respectively. The configuration dialog box, titled "Date and Time Options", contains the following settings:

- Start date/time: 6/3/11 10:16 PM
- End date/time: 6/3/11 10:16 PM
- Display time in:
 - UTC (Coordinated Universal Time)
 - Time zone on my computer
 - Specific time zone: ACDT Australian Central Daylight Time
- Animation speed: slower ————— faster
- Loop animation

An "OK" button is located at the bottom right of the dialog box.









y Google Earth

- * Free
- * Intuitive
- * Can be standalone / low bandwidth
- * Multiple options for data sources
- * Can be interactive, add additional data
- * Continuous Improvement
- * Not fisheries specific, FFA focus is

Accuracy

- * Can vary depending upon source.
- * Not a prosecution or navigation tool
- * Situational Awareness tool
- * Detect potential issues in GE then confirm