

59th Meeting of the Civil GPS Service Interface Committee



SURVEYING, MAPPING, AND GEOSCIENCES SUBCOMMITTEE

ACTING CHAIR: MS. FRANCINE COLOMA, NOAA NATIONAL GEODETIC SURVEY DEPUTY CHAIR: MR. NEIL WINN, U.S. NATIONAL PARK SERVICE

geodesy.noaa.gov

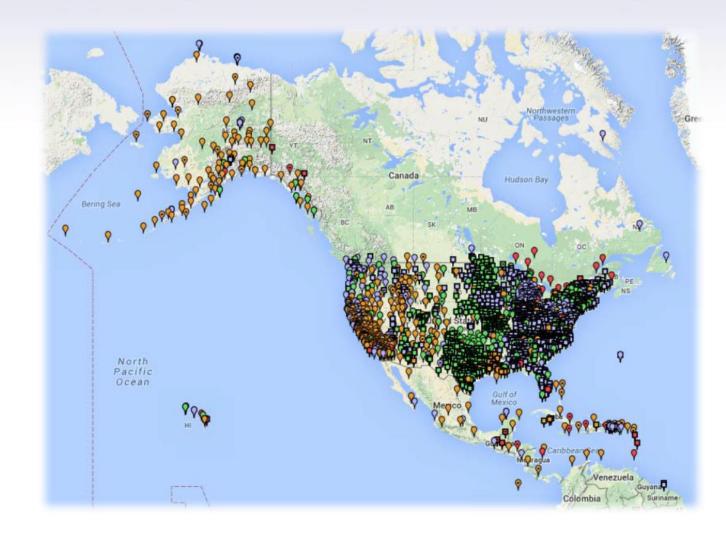
Current Status and the Future of the CORS Network Francine Coloma, NOAA/NGS

Multi-Year CORS Solution 2 (MYCS2) Released

New Coordinates: ITRF2014 epoch 2010.00 and NAD83(2011,MA11,PA11) epoch 2010.00

Foundation CORS progress

Plans for a set of federally-operated, high quality, highly reliable stations with the longevity to guarantee citizens' access to official NSRS positions and to support international positioning consistency efforts.



geodesy.noaa.gov

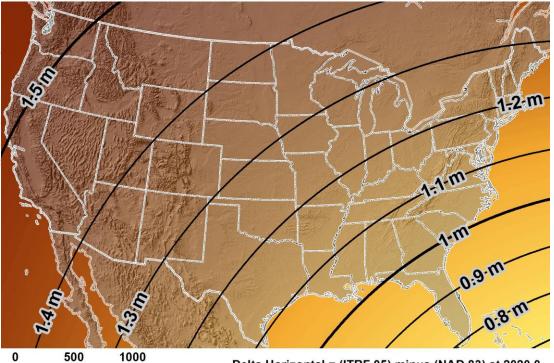
Determining Positions After 2022



Denis Riordan, PSM NOAA, National Geodetic Survey denis.riordan@noaa.gov



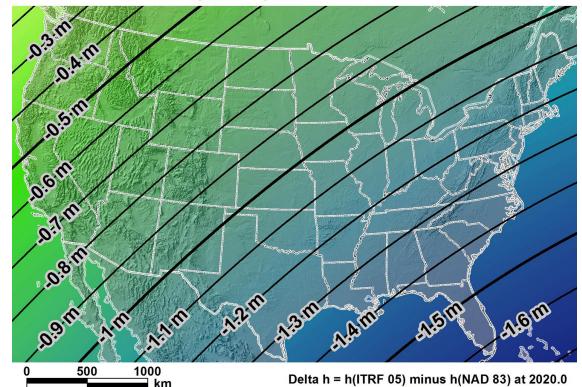
Estimated horizontal change from NAD 83 to new geometric datum



km

Delta Horizontal = (ITRF 05) minus (NAD 83) at 2020.0

Estimated ellipsoid height change from NAD 83 to NATRF2022



Towards global InSAR deformation monitoring of volcanoes

insarmaps.miami.edu

Outline

Search for ...

- Sentinel-1, NISAR
- Examples from Ecuador, Indonesia

Opacity:

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Reset

Canada

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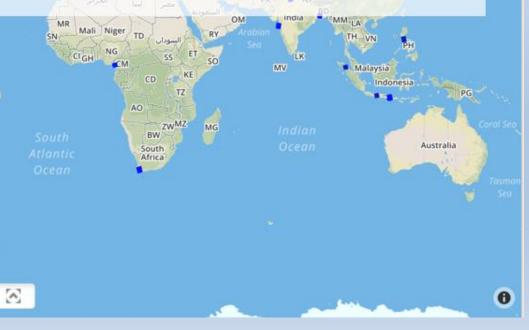
About

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• Mauna Loa 2014-2017

201 201		200 000		North Day	
Satellite	Rel Orbit	First Frame	Mode	Flight Dir.	
Alos	74	2960	SM	D	
Alos	423	620	SM	Α	
Alos	425	640	SM	Α	
Alos	72	2950	SM	D	
Alos	72	2970	SM	D	
ALOS	424	610	SM	Α 👻	
ALOS	422	7010	SM	Α 👻	
ALOS	422	650	SM	A	

Falk Amelung, Yunjun Zhang, Bhuvan Varugu, Alfredo Terrero, Joshua Zahner, Sara Mirzaee University of Miami



Expressed interest in installing transponders for InSAR at GNSS stations

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Maintaining Spatial Data Accuracy in an Increasingly Space-based National Park Service

Neil Winn GIS Specialist National Park Service Assateague Island National Seashore/ Resource Information Services Division

EXPERIENCE YOUR AMERICA



The Status of Geologic and Geomorphic Mapping in Florida

Guy "Harley" Means P.G. Administrator Assistant State Geologist

GPS and InSAR monitoring of coastal subsidence in Florida: Implications to coastal flooding hazard assessments

Shimon Wdowinski Florida International University







Ionospheric Product Developments at the Space Weather Prediction Center

Rob Steenburgh Space Weather Prediction Center Boulder, CO robert.steenburgh@noaa.gov