SURVEYING, MAPPING, AND GEOSCIENCES SUBCOMMITTEE

ACTING CHAIR: MS. FRANCINE COLOMA, NOAA NATIONAL GEODE蒂C SURVEY
DEPUTY CHAIR: MR. NEIL WINN, U.S. NATIONAL PARK SERVICE
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.
Determining Positions After 2022

Denis Riordan, PSM
NOAA, National Geodetic Survey
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Estimated horizontal change from NAD 83 to new geometric datum

Estimated ellipsoid height change from NAD 83 to NATRF2022

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

Delta h = h(ITRF 05) minus h(NAD 83) at 2020.0
Expressed interest in installing transponders for InSAR at GNSS stations.

Towards global InSAR deformation monitoring of volcanoes

insarmaps.miami.edu

Falk Amelung, Yunjun Zhang, Bhuvan Varug, Alfredo Terrero, Joshua Zahner, Sara Mirzaee

University of Miami

Outline

• Sentinel-1, NISAR
• Examples from Ecuador, Indonesia
• Mauna Loa 2014-2017
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
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
ION-GNSS+ 2019 Miami

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