Federal Geodetic Control Subcommittee Meeting

Juliana Blackwell
Chair, FGCS

February 7, 2023

Agenda

Time	Topic	Presenter
1:00 – 1:10	Welcome and Introductions	Juliana Blackwell
1:10 – 1:20	NGS Activities	Juliana Blackwell
1:20 – 1:40	NSRS Modernization Efforts	Dru Smith
1:40 – 2:00	OPUS Projects 5	Heather Nicholson
2:00 – 2:15	NGS 58 Rewrite	Dave Zenk
2:15 – 2:25	Constituent Update	Galen Scott
2:25 – 2:40	SPCS/USSF Update	Michael Dennis
2:40 – 3:10	Chief Geodesist Update	Dan Roman
3:10 – 3:30	Standards for Ground Control for Geospatial Data and Dual Sensor Configurations	Chris Parish
3:30 – 4:00	Work Group Updates, Open Discussion, Closing Remarks	Work Group Chairs Everyone

FGCS Member Roll Call

This subcommittee coordinates geodetic data-related activities among 24 Federal and non-Federal agencies and will report its activities to the FGDC.
https://www.fgdc.gov/organization/working-groups-subcommittees/fgcs

NGS Workforce Update

- Dr. Shachak Pe'eri – Chief, Geosciences Research Division
- Dr. Dan Gillins - acting Chief, Spatial Reference System Division
  - This position will be advertised on USAJOBS.
  - Located in Silver Spring, MD
- Senior Advisor for Geodesy – selection made, announcement pending
- Vacancy announcement for two Geodesists (equivalent to GS-13/14)
  - Mid-Atlantic Regional Advisor (Silver Spring, MD or Woodford, VA) and Alaska Regional Advisor (Anchorage, AK) positions
  - Closes February 14
- NGS Silver Spring, MD office under renovation
- NGS Field Operation group relocated to Chesapeake, VA

PNT Activities

- Strategic Plan for Potential Interference
- PNT Advisory Board meeting https://www.gps.gov/governance/advisory/meetings/2022-11/
- National Space-Based Positioning, Navigation, and Timing Executive Steering Group meeting - February 24, 2023

PNT Activities

T-CORS at Virginia DoT Reston Road Yard (<200 m from Ligado HQ)

T-CORS on Mitre 4 building in McLean, Virginia

Two geodetic-grade GNSS receiver/antenna pairs at each Test CORS – one pair resilient against Ligado L-band interference, one pair is potentially not resilient. Stations are completely autonomous – solar powered with cellular telemetry.

Geodesy Crisis

Lack of available trained geodesists poses major risks to national security and economy

FGDC.GOV
FEDERAL GEOGRAPHIC DATA COMMITTEE

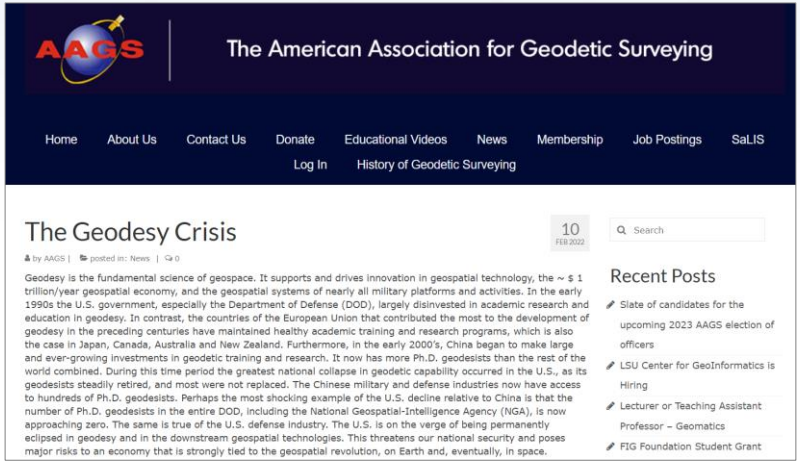
NATIONAL GEOSPATIAL ADVISORY COMMITTEE – RESOLUTION ON GEODESY

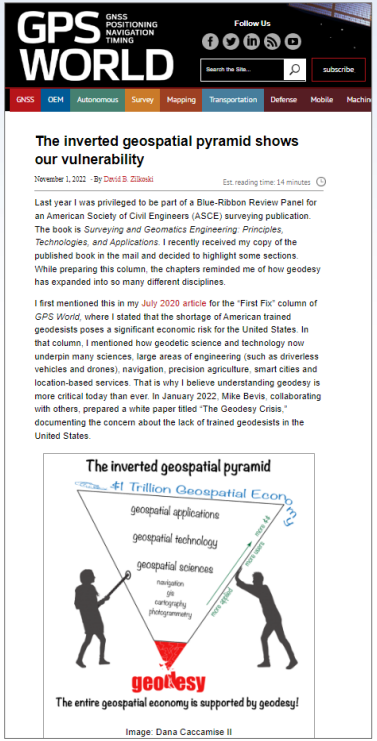
"The decline of geodetic academic programs in the United States and the resulting shortage of practicing geodesists threatens our international technological competitiveness in Earth and space science, affecting our economic health and security. The National Geospatial Advisory Committee (NGAC) supports the findings, which include challenges, threats, and opportunities, outlined in the "Geodesy Crisis" white paper[1] authored by Dr. Michael Bevis et al. and discussed with NGAC members.

The NGAC strongly recommends that these serious national challenges be addressed immediately through an ambitious program of educational support, research funding, and government agency action including:

- Address the challenges and opportunities for augmenting geodesy capabilities in support of the National Spatial Reference System and within relevant Federal Geographic Data Committee (FGDC) agencies.
- Promote understanding within FGDC agencies and across the geospatial community about how geodesy expertise advances socio-economic, environmental, ecological, intelligence, and military programs to advance national security and economic growth.
- Augment budgets to sponsor academic training and research work in geodesy and allied geospatial fields (the NGAC commends the National Geospatial-Intelligence Agency for providing its leadership and financial commitment to this effort).
- Act expediently."

(Adopted by the NGAC on December 7, 2022)





Geodesy Crisis

NGS activities:

- Support professional development and advanced education
- Raise awareness and communicate the risks and impacts to leadership
- Collaborate with NGA, NASA, and others on Geodesy Community of Practice
- Pursue direct hire authority and senior level position
- Provide grant opportunity focused on geodetic needs

Workgroup Updates and Discussion