Civil GPS Service Interface Committee (CGSIC)

ICG-14

UN International Committee on GNSS

09 December, 2019

Bengaluru, India

Rick Hamilton
CGSIC Executive Secretariat

CGSIC 2019

**September 16-17, 2019
Hyatt Regency Miami
Miami, Florida**

**All meeting material is posted to
www.gps.gov/cgsic/meetings/2019**

GPS Week Number Rollover

- Extensive public outreach
  - CGSIC Bulletins
  - Broadcast Notice to Mariners
  - US Air Force guidance/recommendations
  - DHS guidance/recommendations
- Government coordinated testing to test equipment readiness for WNRO
  - US Air Force
  - DHS
  - Equipment manufacturers

https://navcen.uscg.gov/?Do=constellationStatus

Slant Chart (GPS Satellite Locations)

Including GPS III SV01 as SVN 74

SPACE AND MISSILE SYSTEMS CENTER

Geographic Longitude of the Ascending Node (deg)

Legend:
- GPS IIA (green square)
- GPS IIR (blue triangle)
- GPS IIR-M (black triangle)
- GPS IIF (red diamond)
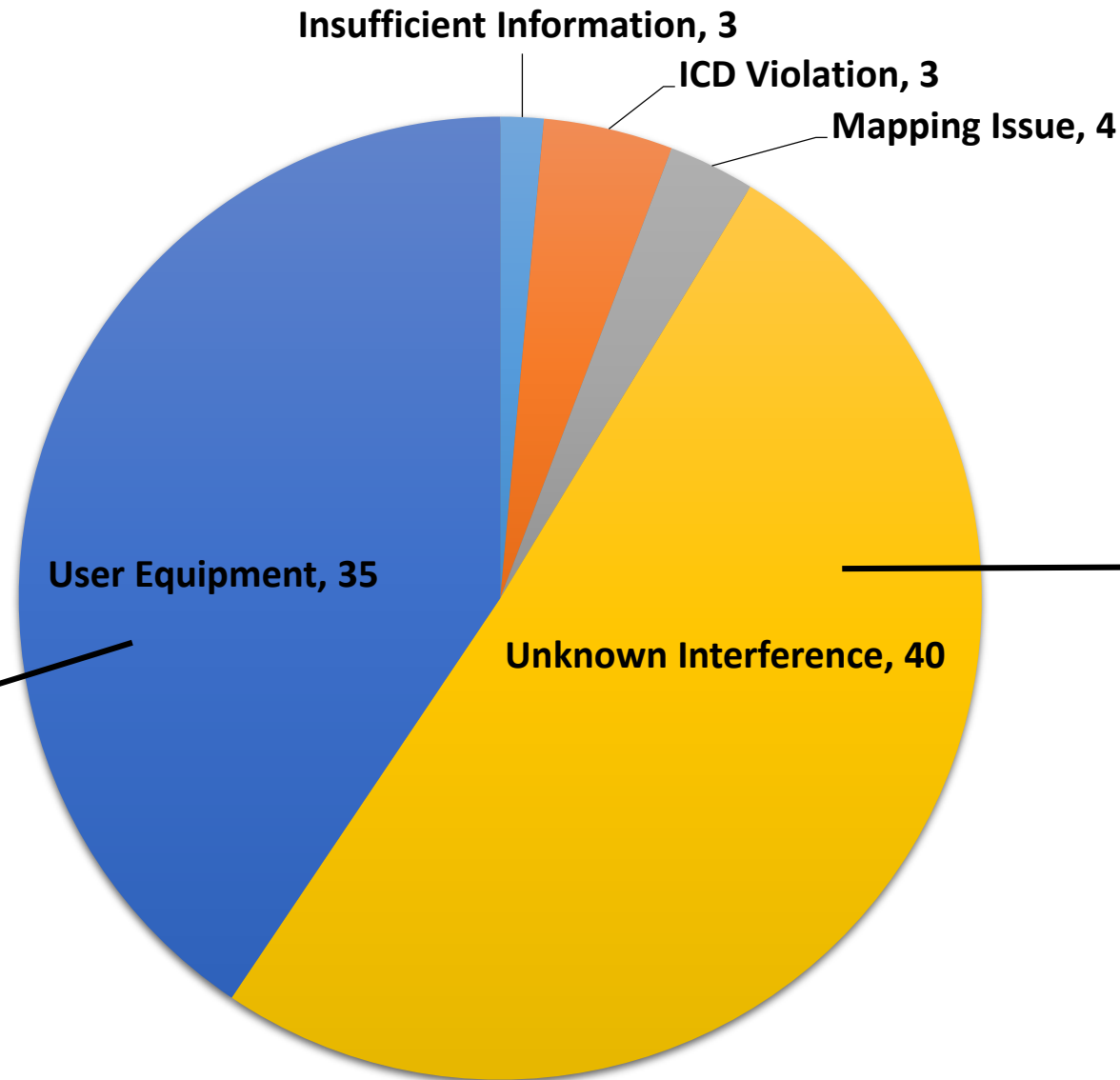- GPS III (orange circle)
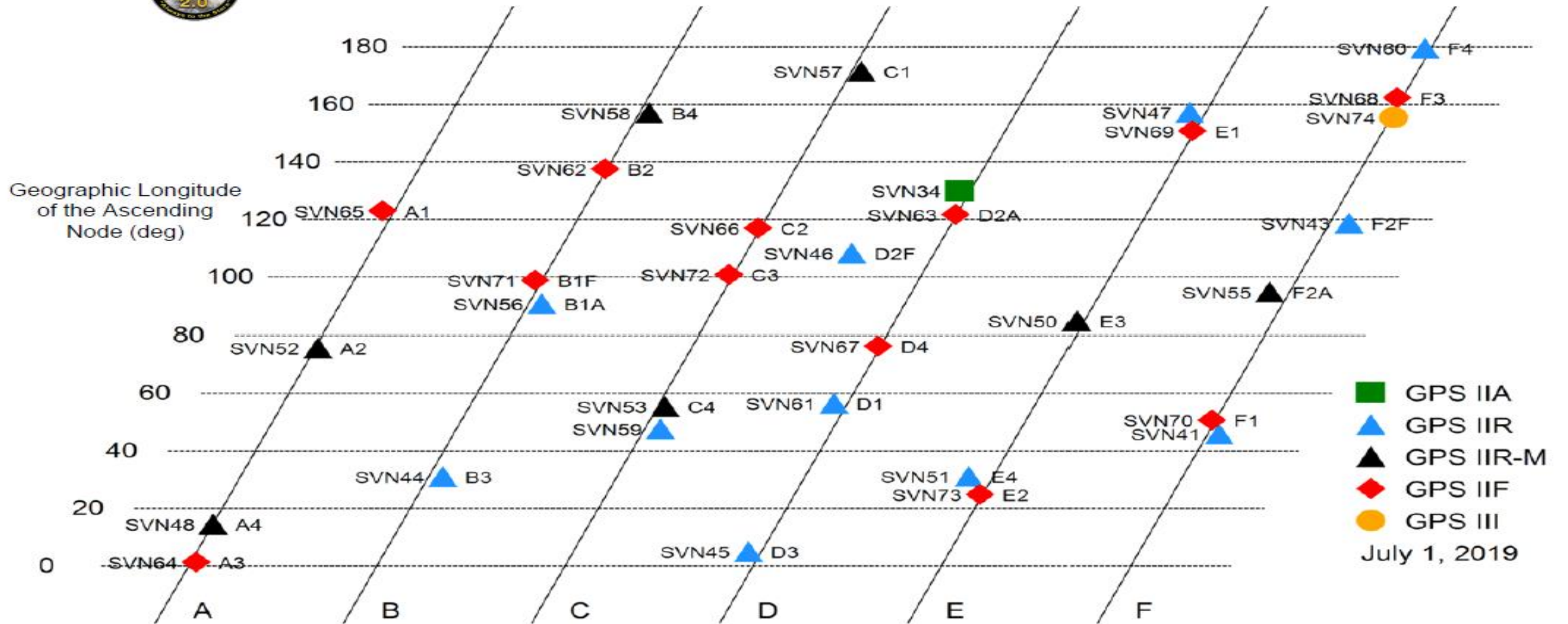
July 1, 2019

Authorized GPS Testing

- Planned, authorized government GPS testing has seen:

  - 32% annual increase since 2015

  - More diverse locations nationwide

  - Extended testing periods

- Continue to coordinate approvals and publicize authorized testing
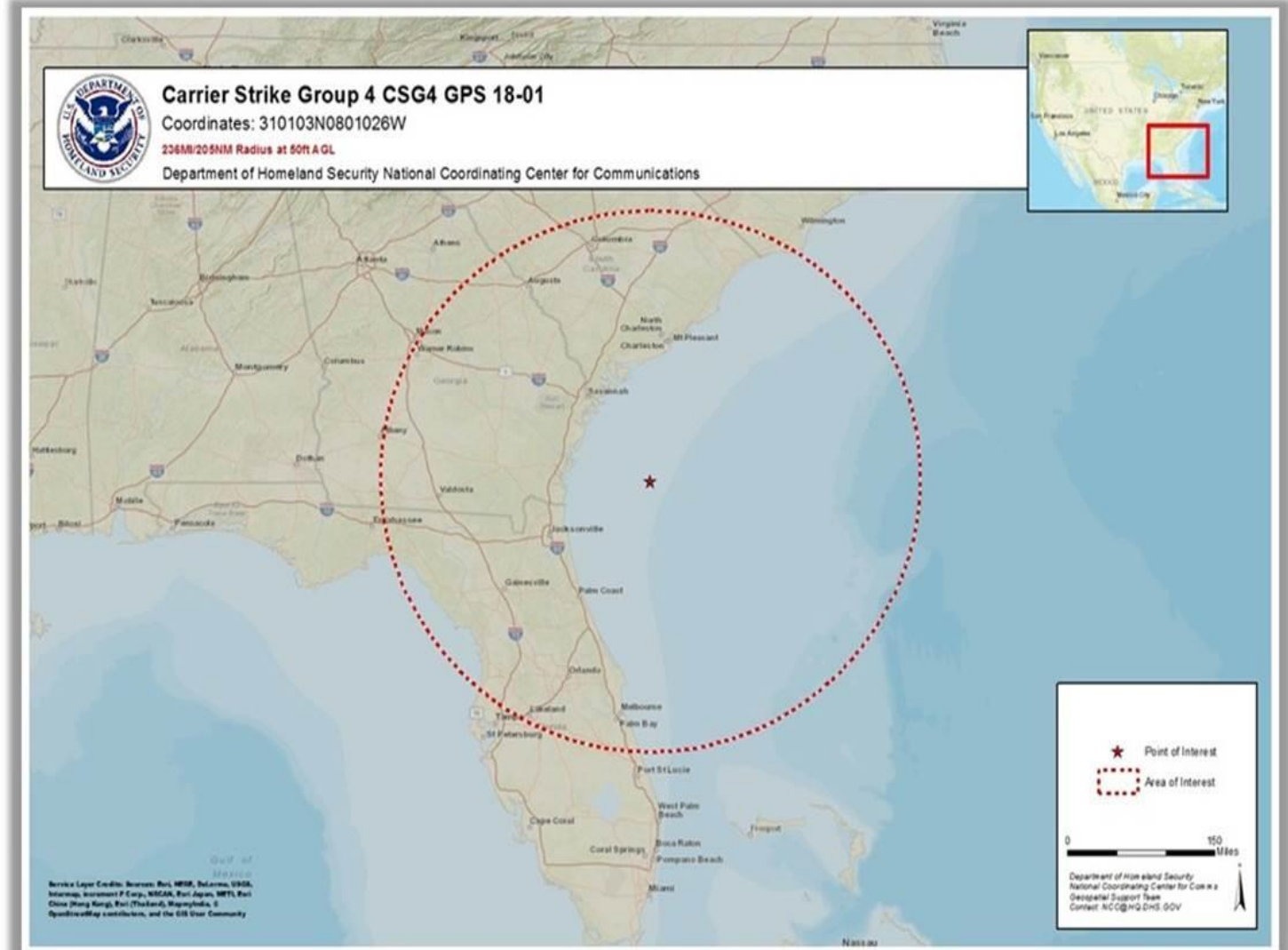
2019 GPS Problem Reports

Insufficient Information, 3

ICD Violation, 3

Mapping Issue, 4

User Equipment, 35

Unknown Interference, 40

17 appeared related to Week Number Rollover

OCONUS (32)
Maritime (28)
- Egypt (9)
- Malta/Libya (9)
- China (5)
- Yemen
- Lebanon
- Ukraine
- Cyprus
- Greece
Land (4)
- Germany
- Spain
- India
- Brazil

CONUS (8)
Maritime (5)
- Mobile, AL (4)
- Pensacola, FL
Land (3)
- Abilene, TX
- Carson City, NV
- Puerto Rico

Problem Report Status https://navcen.uscg.gov/?Do=GPSReportStatus

Use of AIS for Marine Investigations
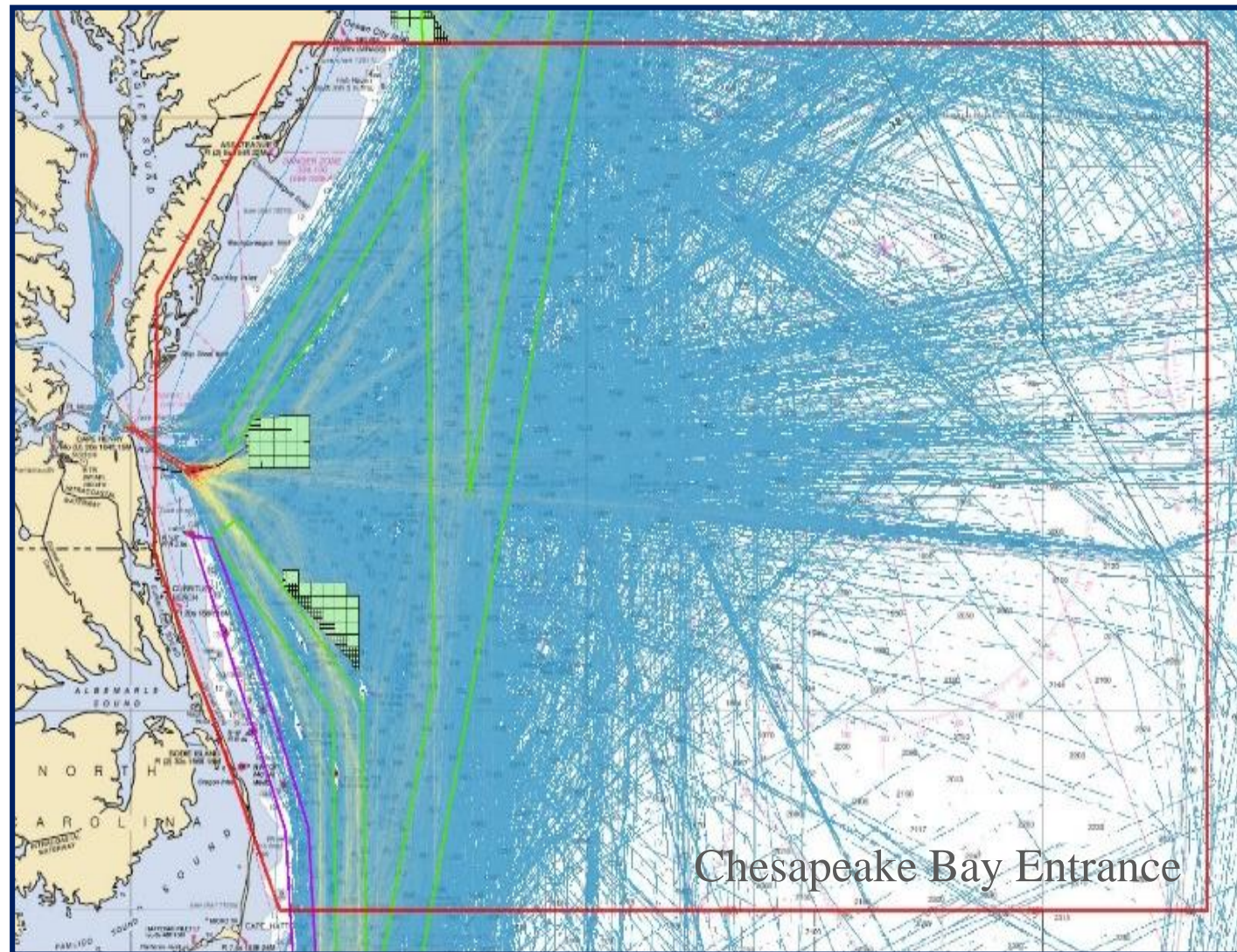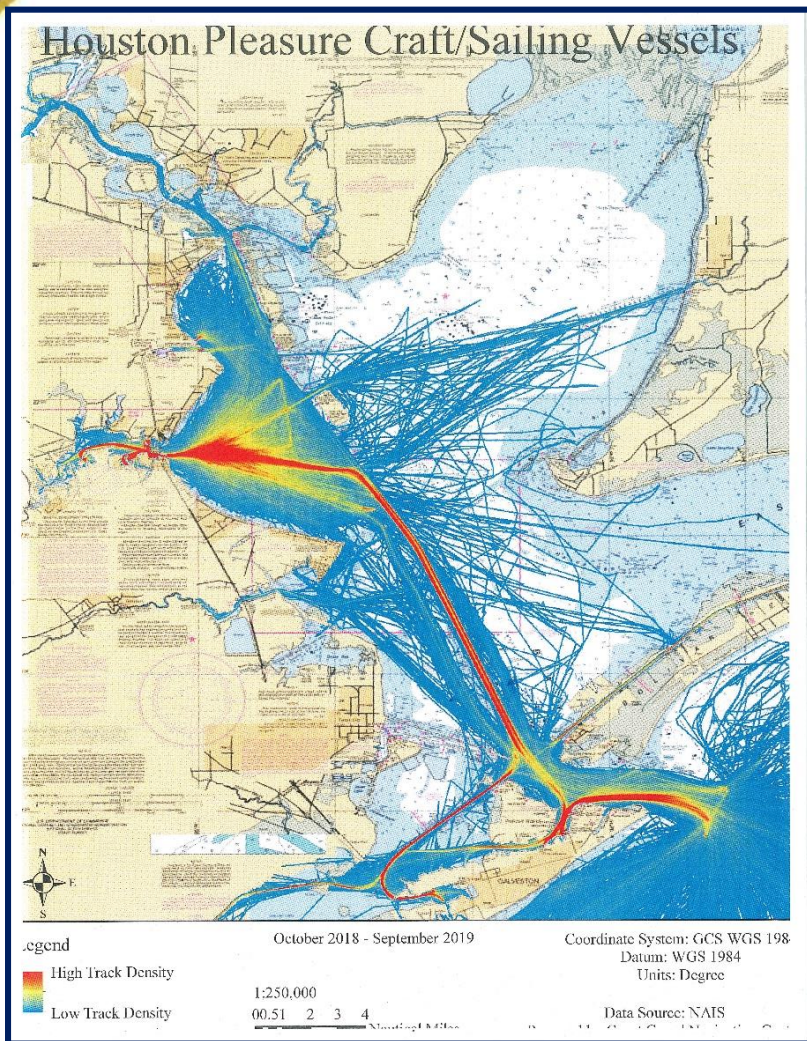
Waterways Risk Assessment and Support Division

Corpus Christi All Vessels
June 2018 - June 2019

Total Transits per Vessel Type
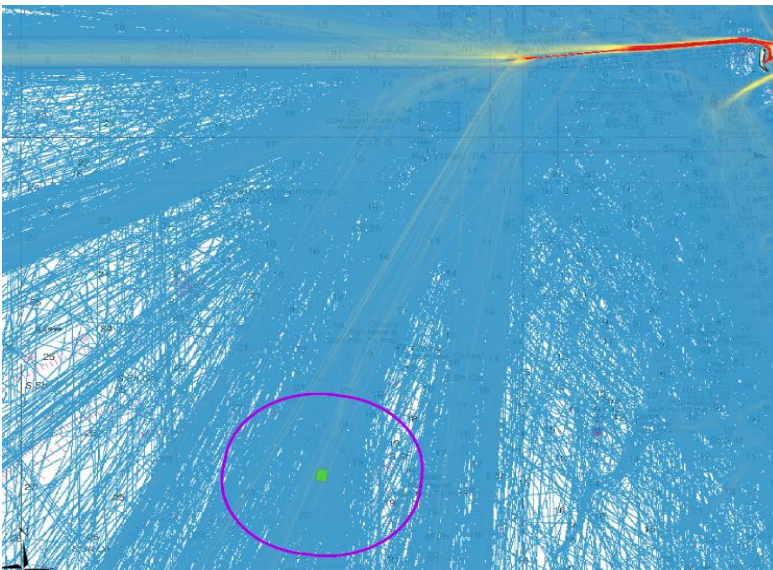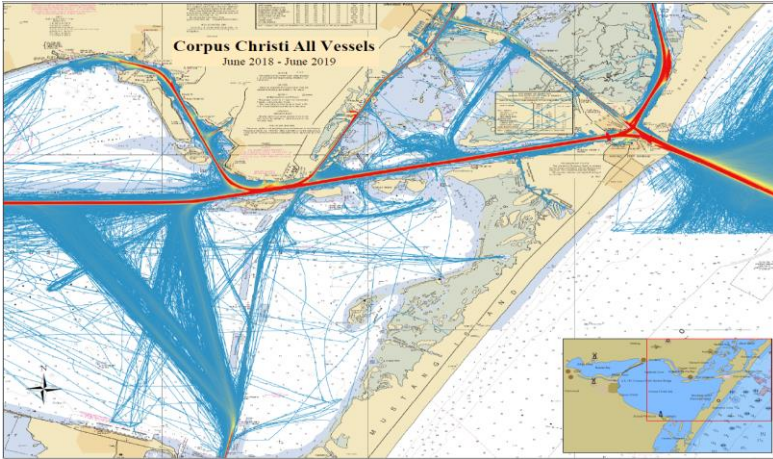
- **Traffic Statistics for PAWSA**
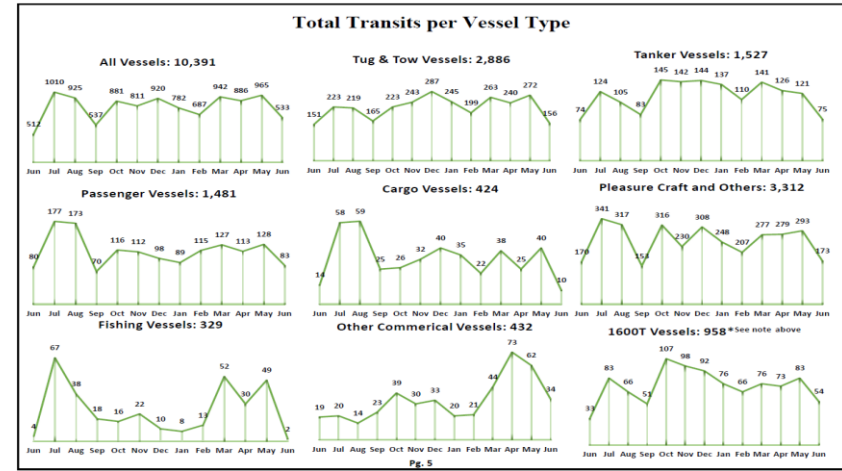
- **General GIS Support for Waterways issues.**
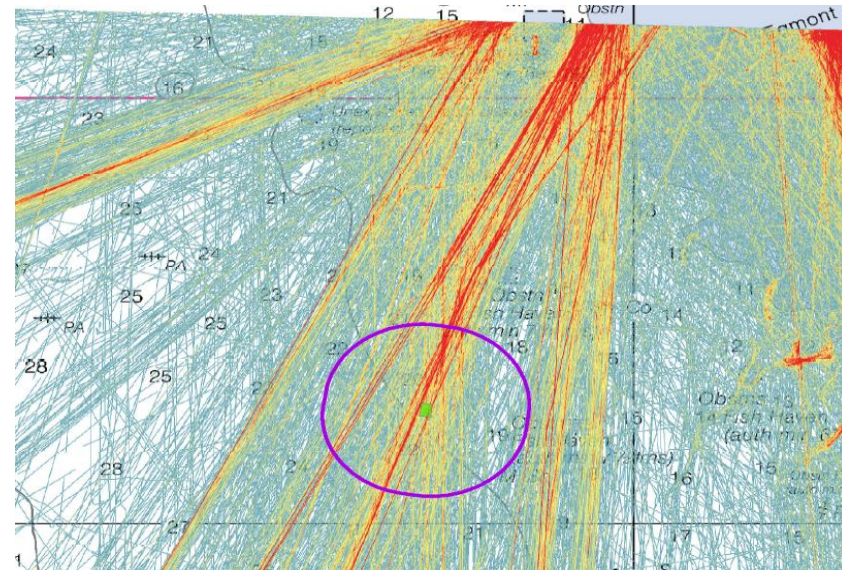
Maritime Traffic and Tracking Analysis Division

- **Our team are maritime geographic information system (GIS) experts and information analysts**

- **We turn the data in the NAIS database into useful information for the CG and maritime community**
  - Create tailored reports of archived AIS traffic data
  - Support everything from academic studies to casualty investigations to legal claims

- **We ensure the data integrity of the NAIS database**
  - Help the maritime public to report accurately and we aid in compliance efforts
  - Systematically comb and correct the data as it becomes part of the historical public record

- **We approve interagency and public requests for NAIS information**
  - Handle the FOIA requests
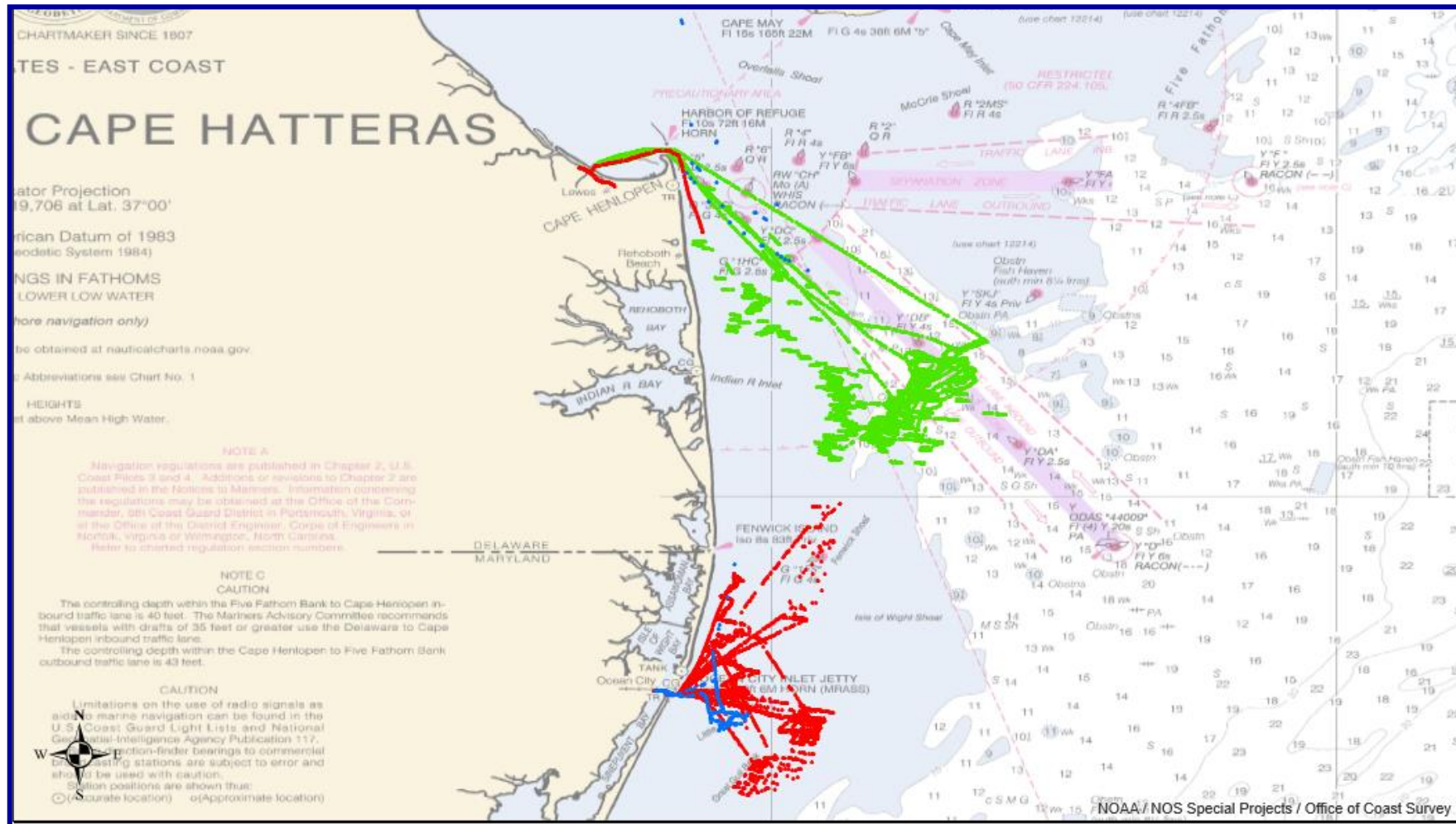 - Screen agencies' request to establish AIS live feeds
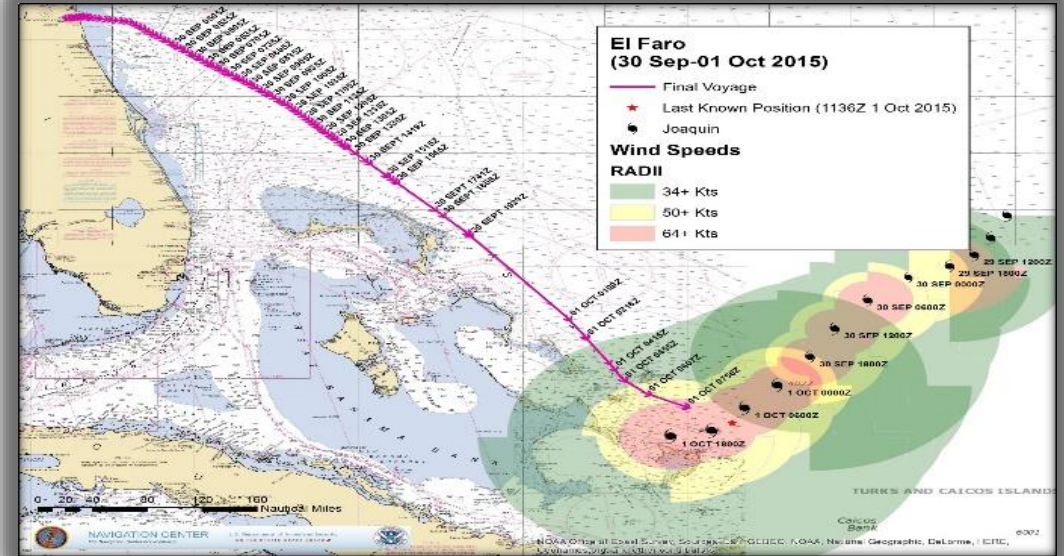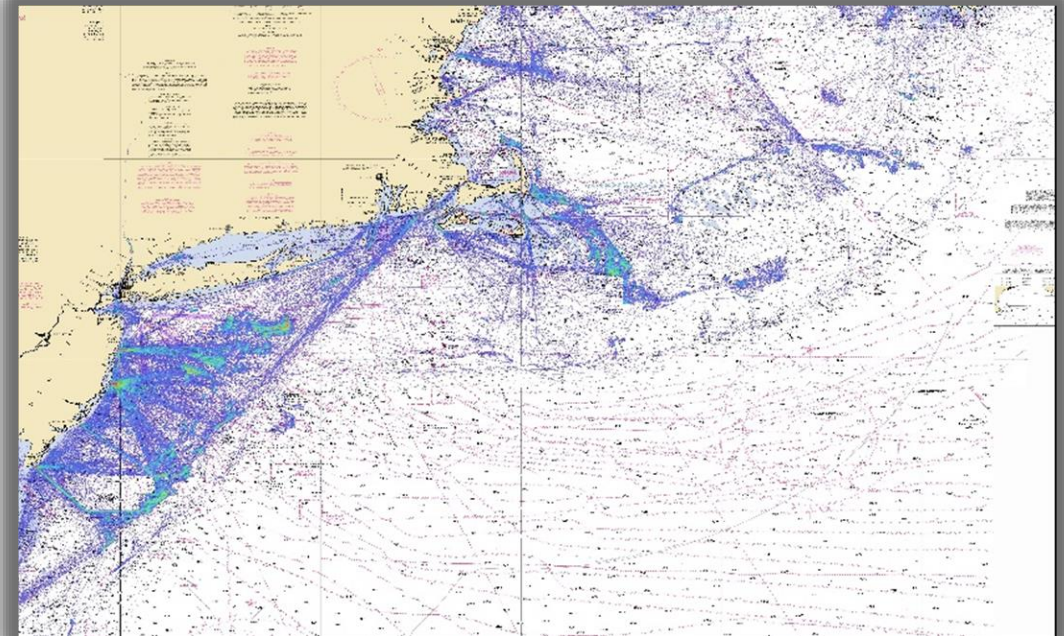
CG Sector Delaware Bay HDR 2019-325

Coordinate System: GCS WGS 1984
Datum: WGS 1984
Units: Nautical Miles
Date Created: 22NOV2019

Miles
0   3.5   7   14   21   28

Vessel Position Reports
(01NOV2017 - 21NOV2019)

- Vessel of interest 2017   • Vessel of interest 2019
- Vessel of interest 2018

Maritime Traffic and Tracking Analysis Division

AIS for Marine Pollution Surveillance applications

Marine Pollution Surveillance Report (MPSR)

(FedRamp = Federal Risk and Authorization Management Program)

CGSIC 2019
September 21-22, 2020
Union Station Hotel
St Louis, Missouri

Navigation Information Service

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