STATUS OF INLAND ENCS IN THE US

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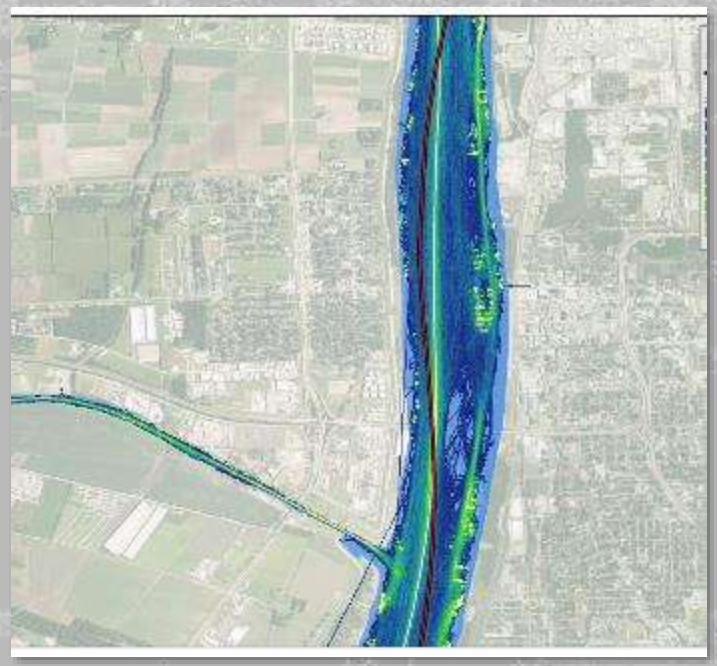
USACE IENC Program Manager
US Army Geospatial Center
Date: 22 OCT 2019

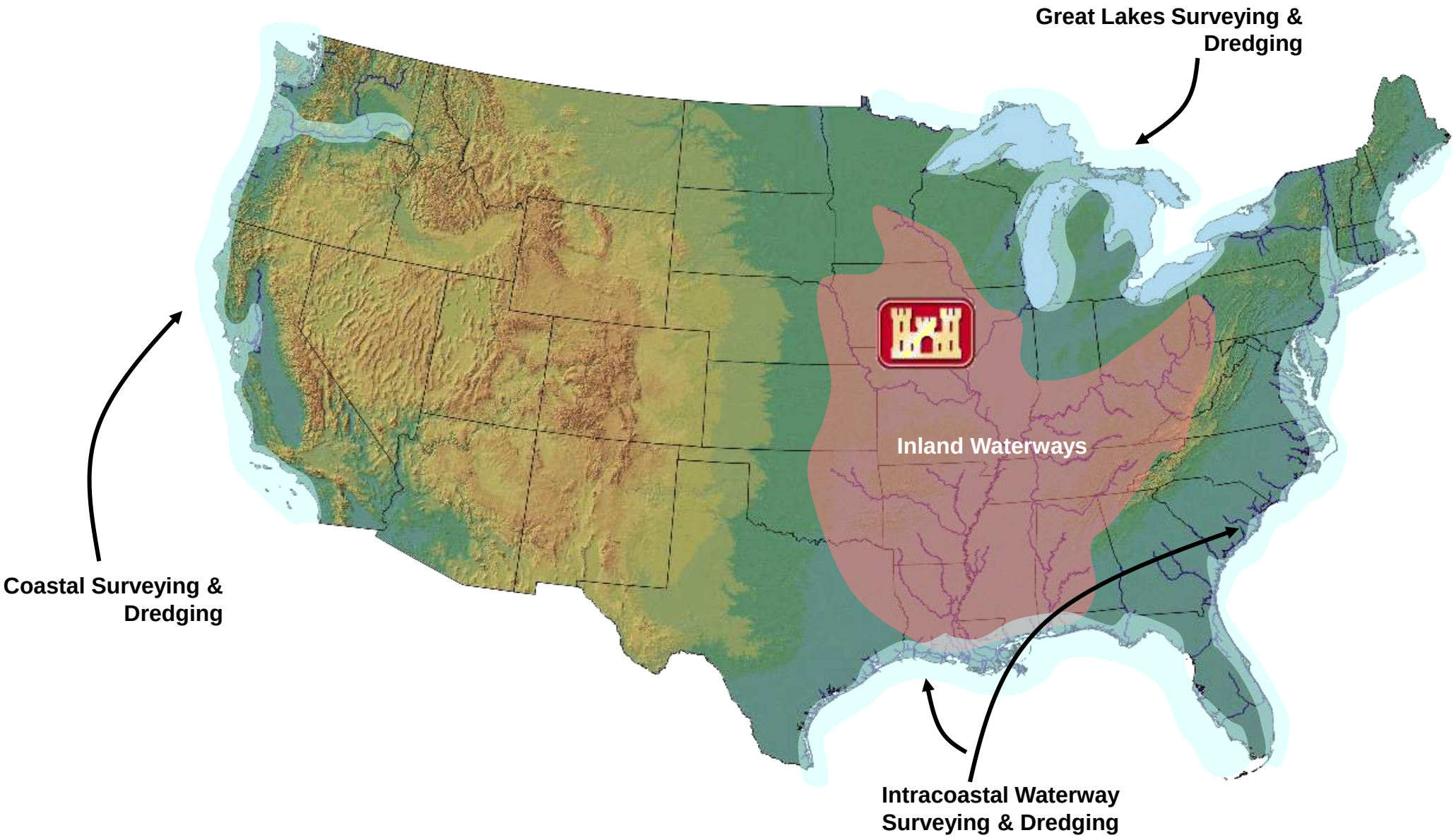


U.S.ARMY

US Army Corps of Engineers ®

AGC

USACE NAVIGATION MISSION



IENC COVERAGE IN THE US

Western Rivers System
– 107 IENC cells covering over 11,000 km
– 21 Rivers
– 15 USACE Districts
– Charts are produced to the IENC 2.3 Standard
– All charts are reviewed monthly and updated, as necessary

IMPLEMENTATION OF IENC IN THE US

River / Waterway	Miles	Kilometers	Inland ENC 2.3 (converted Jan. 2015)
Allegheny River	45	72	Published
Arkansas River	445	716	Published
Atchafalaya River	118	190	Published
Black Warrior River	235	378	Published
Cumberland River	381	613	Published
Green River	108	174	Published
Illinois Waterway	337	542	Published
Kanawha River	91	146	Published
Kaskaskia River	36	58	Published
Lower Mississippi River	715	1,151	Published
Missouri River	733	1,180	Published
Mobile / Tombigbee Rivers	217	349	Published
Monongahela River	129	208	Published
Ohio River	981	1,579	Published
Ouachita River	351	565	Published
Red River	237	381	Published
Tennessee River	765	1,231	Published
Tennessee-Tombigbee Waterway	225	362	Published
Upper Mississippi River	866	1,394	Published
White River	245	394	Published
Total	**7,260**	**11,684**	

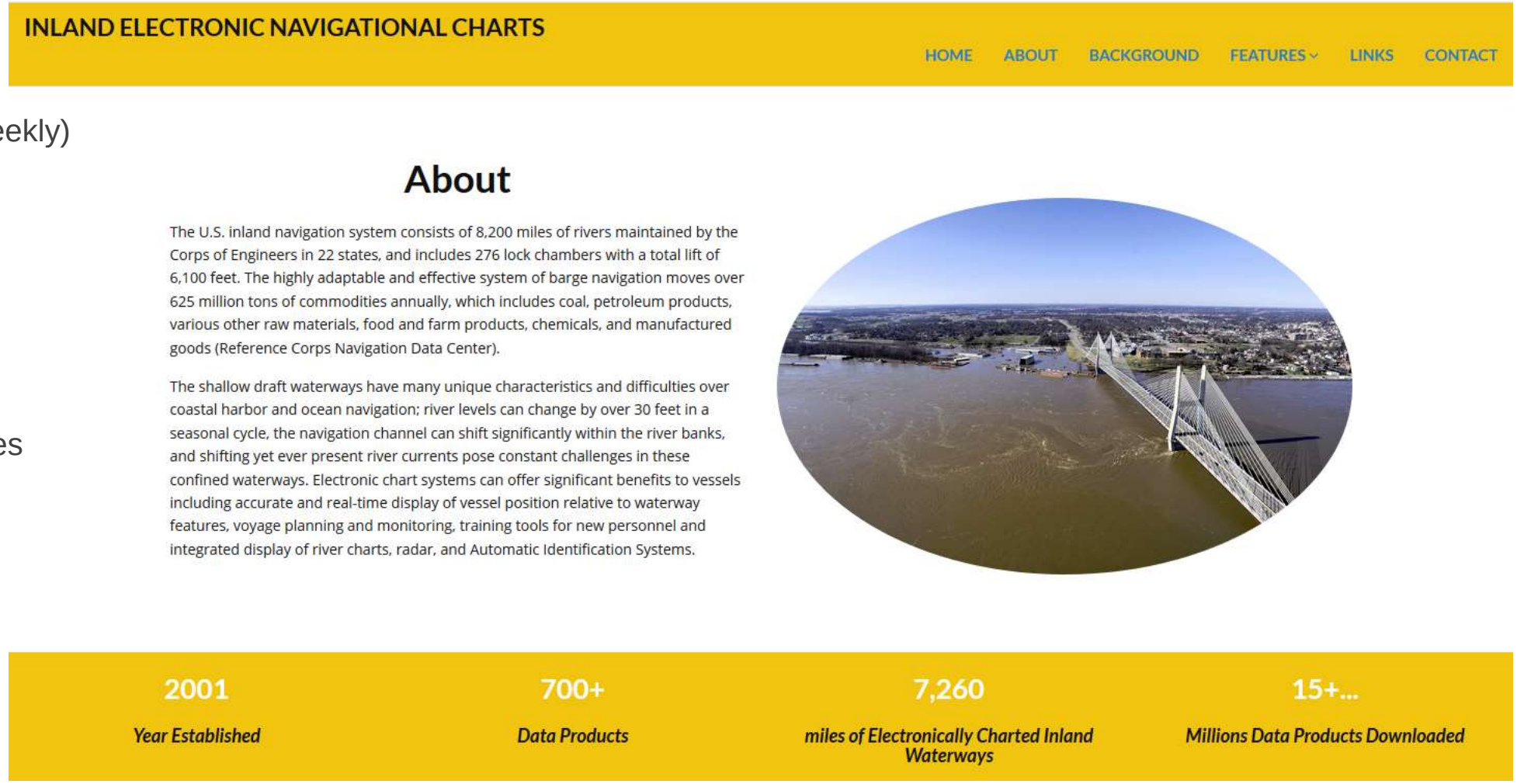
IMPLEMENTATION OF IENC IN THE US

IENC Data Download Services

– http://ienccloud.us/

– Products
  - IENC Cells
  - IENC Overlays
    – Buoys (updated weekly)
    – Hydro surveys

– Data Formats:
  - IENC 2.3
  - Shapefile
  - KML
  - GeoPDF
  - Dynamic Web Services
  - XML Catalogues



IMPLEMENTATION OF IENC IN THE US

Inland Waterway Carriage Requirement

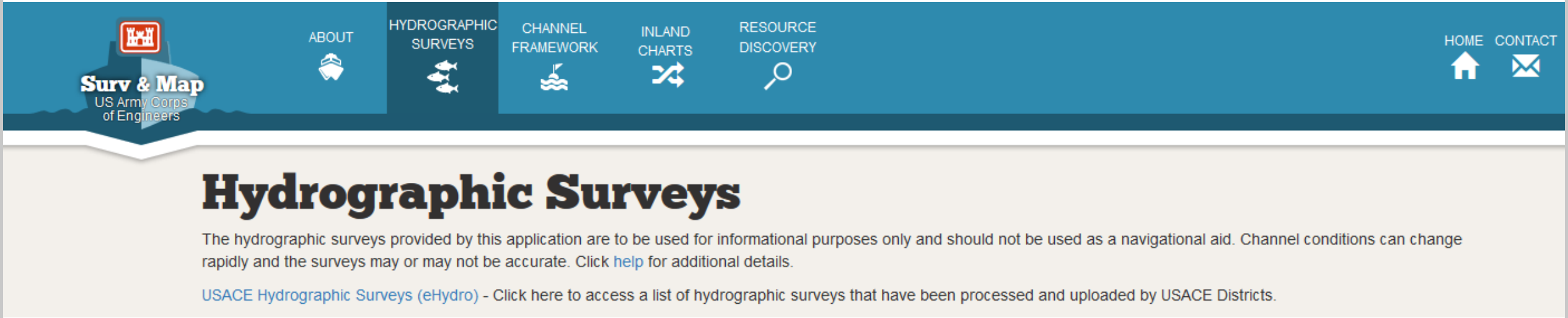
– Presently there is no mandatory carriage requirement for electronic charts or systems on US inland waterways

– US Coast Guard NVIC* 01-16 change 1 provides that :

- display of certain electronic charts and publications will meet—as an equivalency—the ‘‘marine charts,’’ ‘‘charts,’’ ‘‘maps,’’ or ‘‘publications’’ carriage requirements and provides for an equivalency for position fixing and plotting.

*NVIC – Navigation and Vessel Inspection Circular

IMPLEMENTATION OF IENC IN THE US

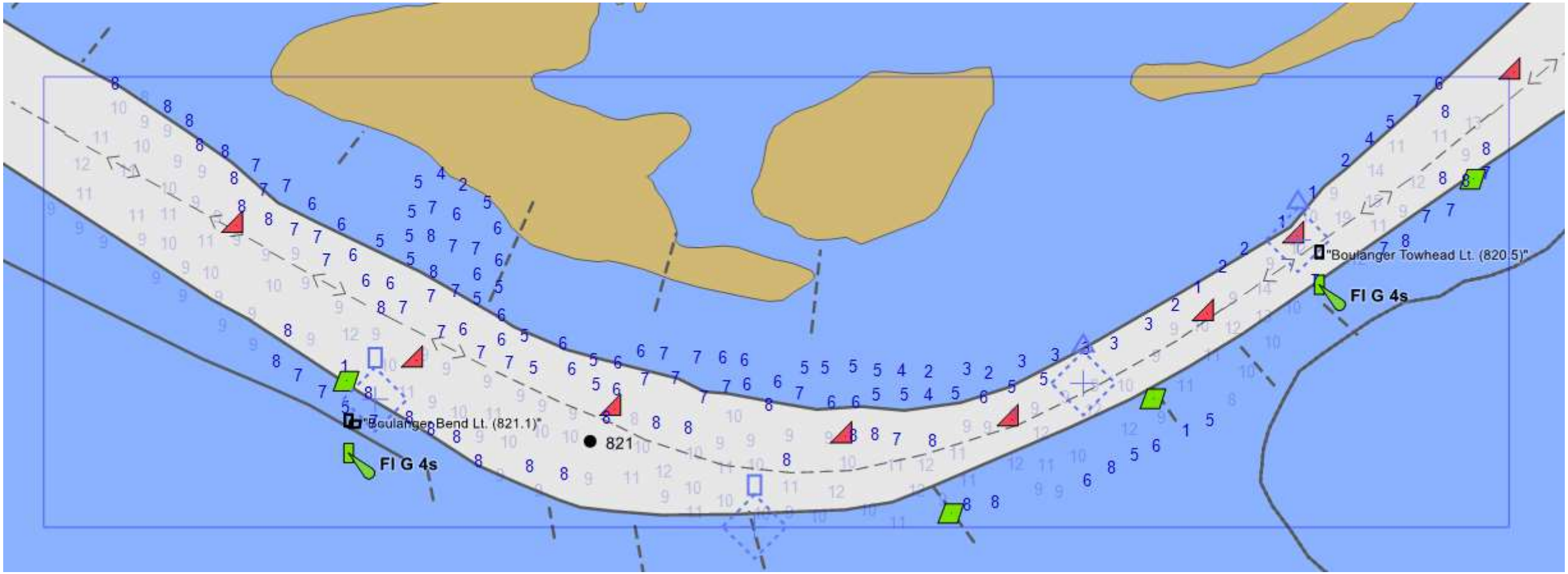


eHydro

– An enterprise Hydrographic Survey Processing within a GIS Framework
– Mission: To catalog, organize, and disseminate navigation related data efficiently and effectively
– Feature Management:
  - National Channel Framework (coastal)
  - Hydrographic Surveys (XYZ, Bathyrmetry raster)
  - Reports (Channel Condition & Channel Availability)
– Provides unrestricted access to all USACE hydrographic survey data

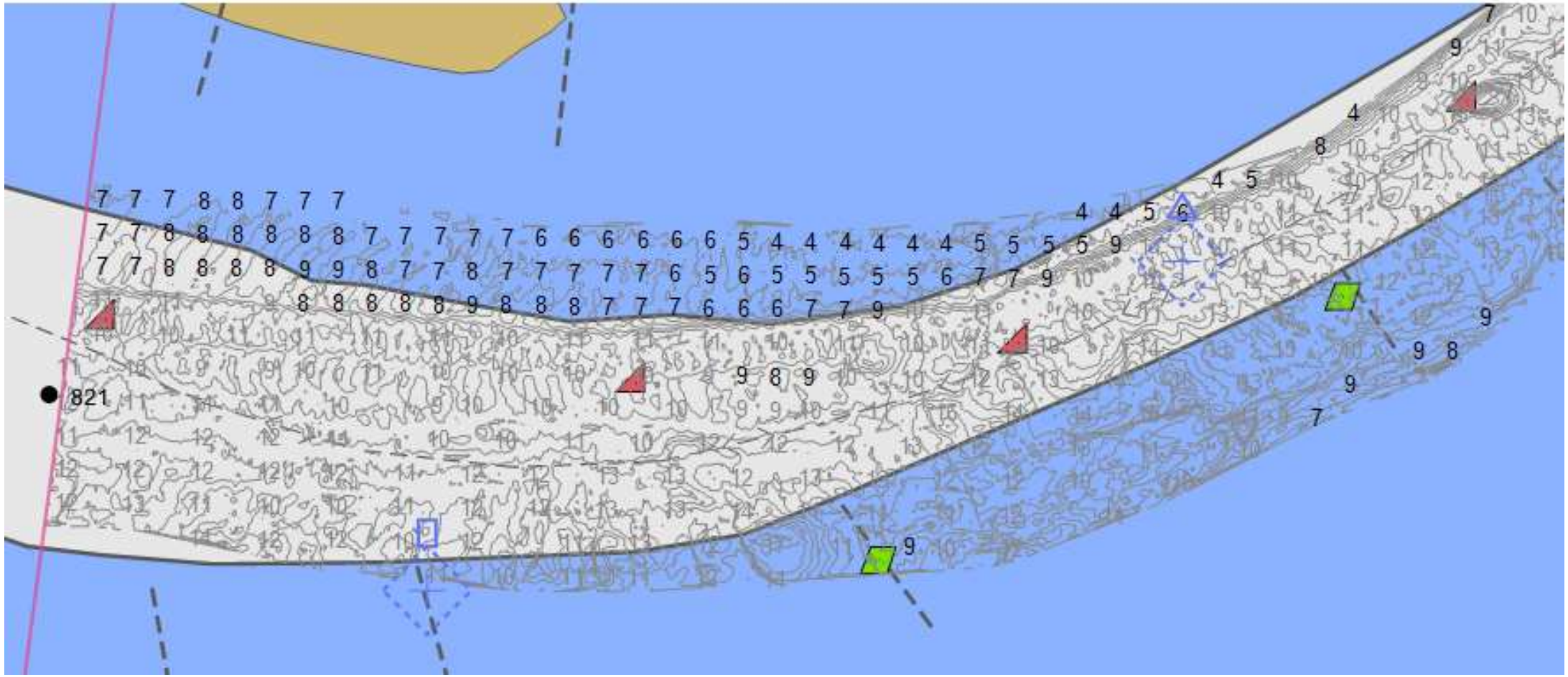
IMPLEMENTATION OF IENC IN THE US

eHydro
– Rose Point ECS – xyz display



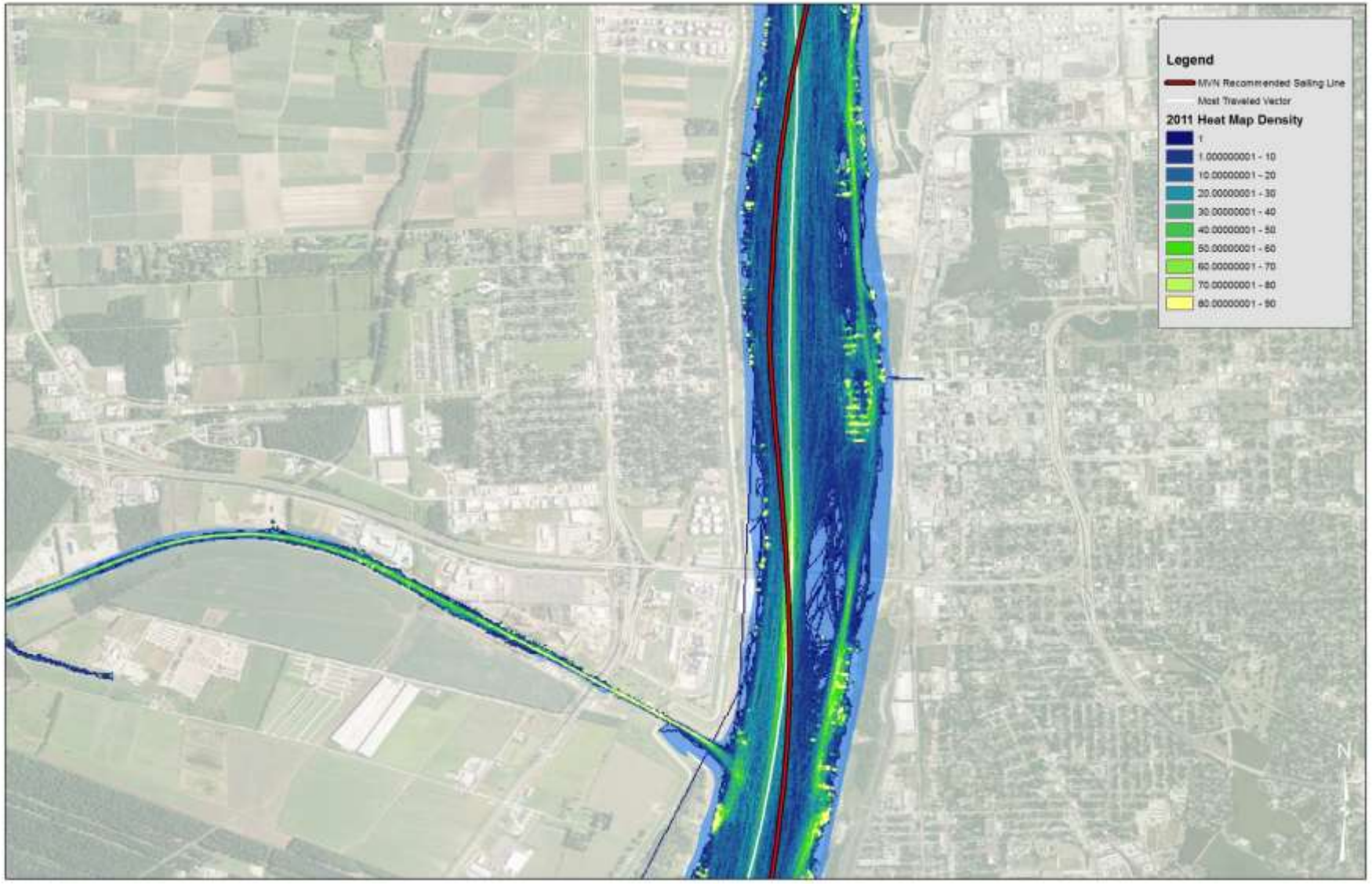
IMPLEMENTATION OF IENC IN THE US

eHydro
– Rose Point ECS – IENC Overlay



IMPLEMENTATION OF IENC IN THE US

Automatic Identification Services (AIS)
– Heat Maps for RECTRC

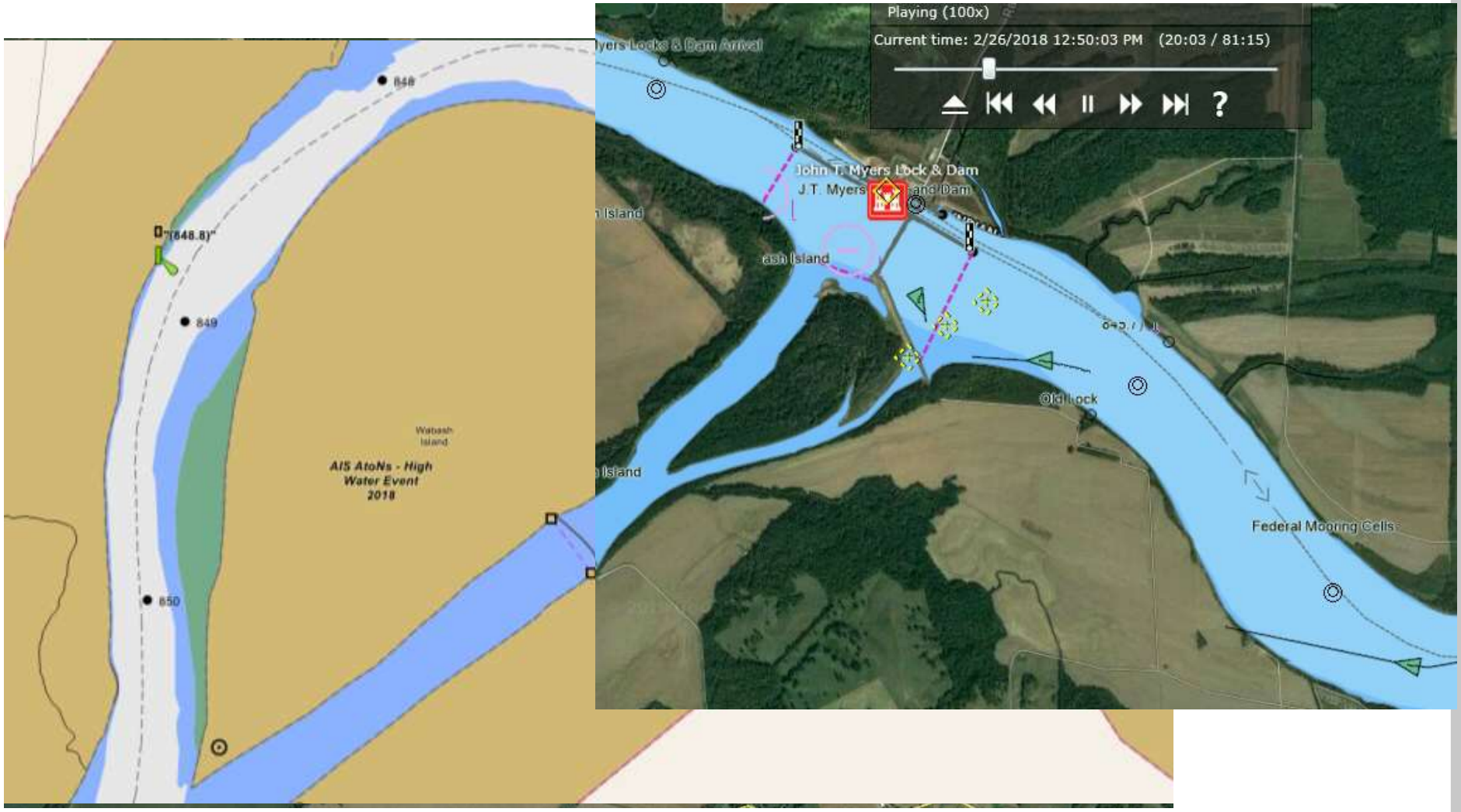


IMPLEMENTATION OF IENC IN THE US

Automatic Identification Services (AIS)

– AtoNs

- Ohio River high water event
- J.T. Myers Locks & Dam
- Navigation over fixed weir



IENC ON-LINE FEATURE CATALOGUE

- Available as IENC FC 2.3 & 2.4

  http://ienccloud.us/ienc/web/s-57/

QUESTIONS?