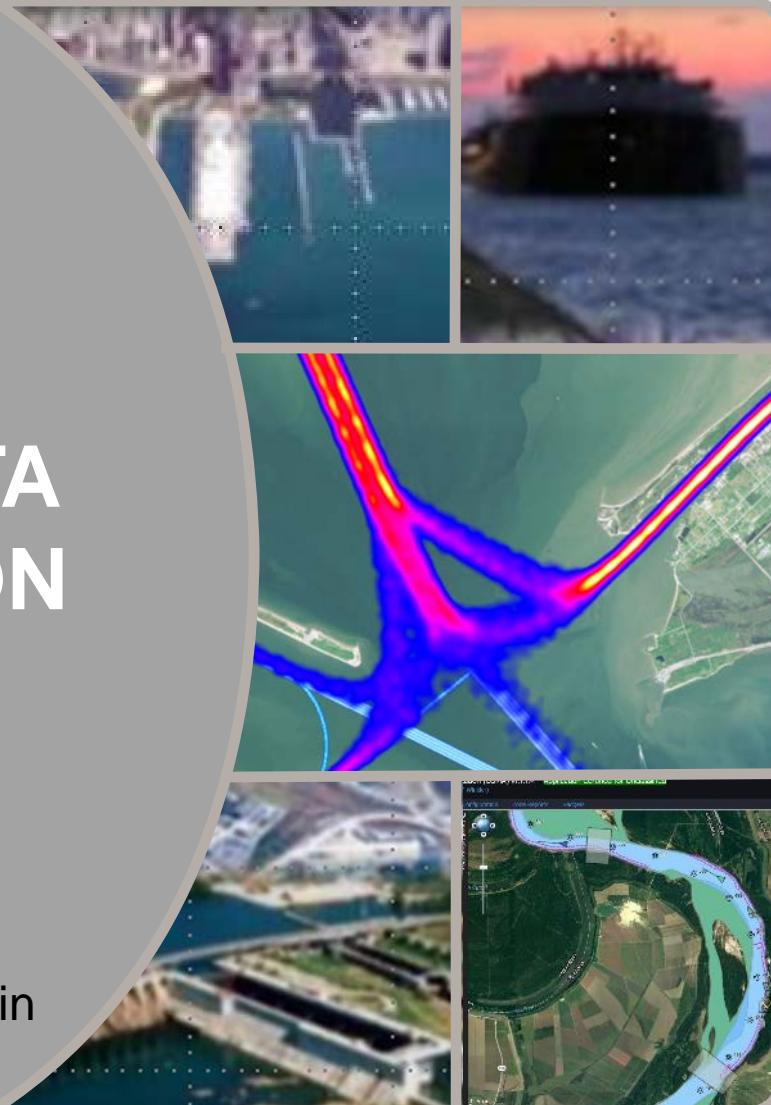**AUTOMATIC IDENTIFICATION SYSTEM ANALYSIS PACKAGE**

AISAP LESSON 2: SITE ORIENTATION, DATA LIBRARY, ORGANIZATION

Patricia DiJoseph, PhD

AISAP Training Class

8 January 2019

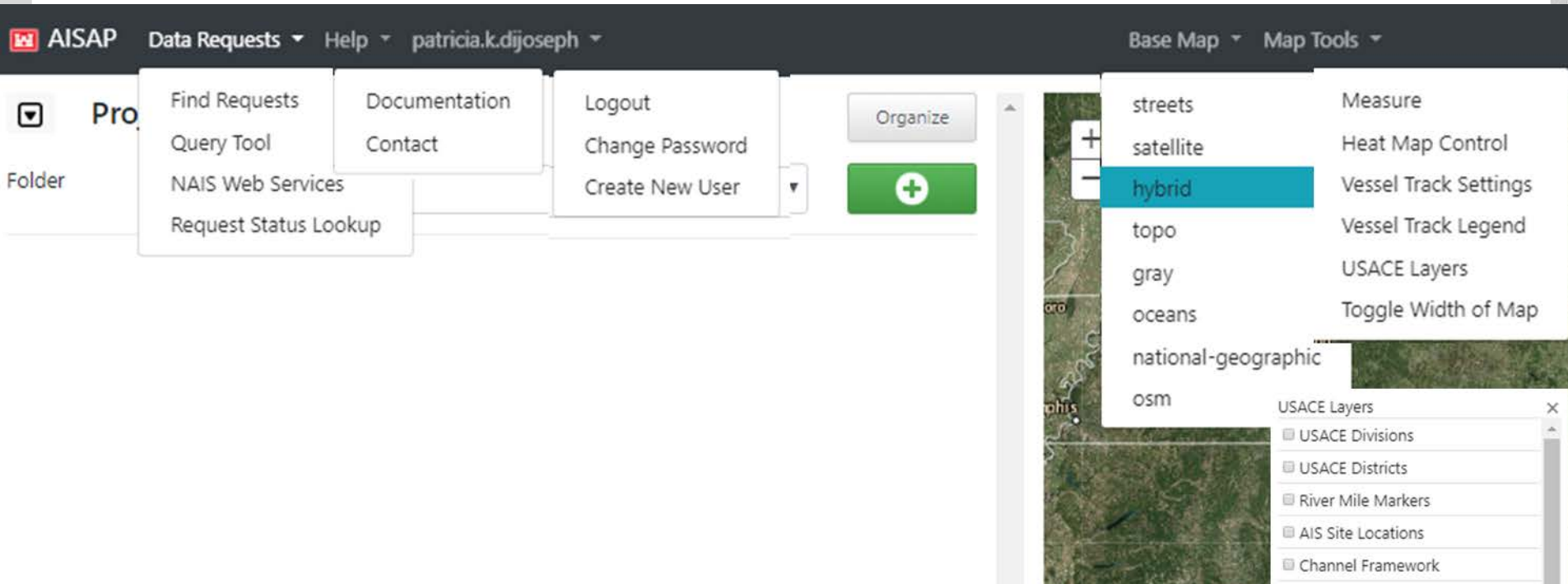Team: Ned Mitchell, PhD, Brian Tetreault, Marin Kress, PhD, SAM-OPJ, ARA

SITE ORIENTATION

- Log-in each time you use AISAP
- Create new account or reset password on the home screen
- Help documentation is provided
- Base Map can be changed
- Explore the Map Tools → USACE layers

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DATA LIBRARY

- We do not have a copy of the entire NAIS database in AISAP
- Instead, AISAP users pull copies of subsets of the NAIS database via the AISAP query tool
  - Subsets are defined by location, time period, and sampling rate
- Pulled data is saved and stored in the AISAP data library
  - Each pull is called a "request" and data is organized by request
- All AISAP users can access all data within the AISAP library
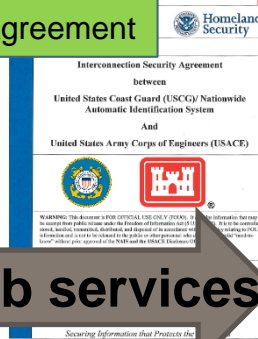- Multiple people can access and use the same data at the same time
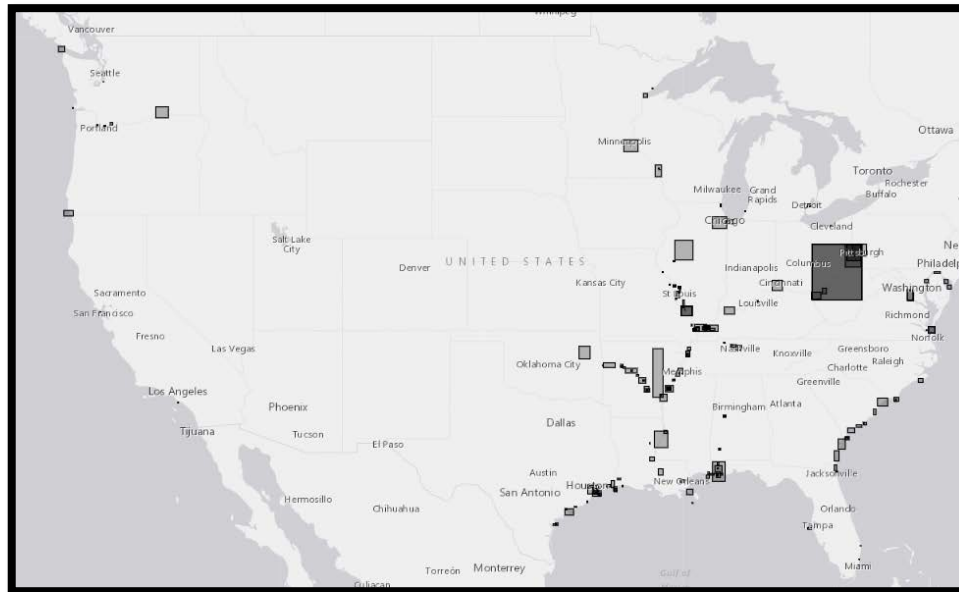
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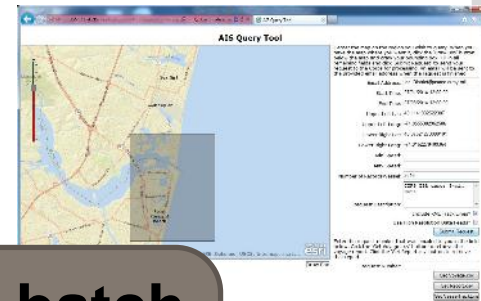
AISAP FUNCTIONAL LAYOUT

USCG NAIS

USCG-USACE
Interagency Security Agreement

USCG web services
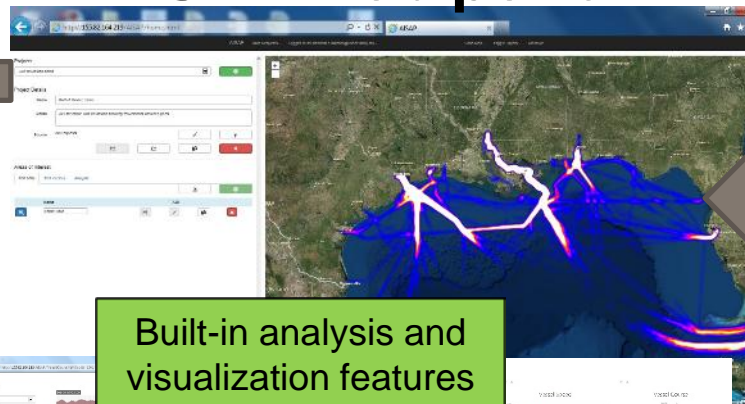
Scripts for batch service calls via GUI

USACE data cache

AISAP web portal

Basic data retrieval (.csv and .kml)

Built-in analysis and visualization features

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DATA REQUEST TOOL

Query Tool

Complete the form below to retrieve data from the NAIS archive for use in AISAP. Each submission constitutes a **request** in AISAP. Please note that position reports more than three years old are not retrievable.

An email will be sent to the provided email address when the request is complete. The time from submission to completion varies from minutes to days depending on the amount of data requested.

Email

Start Time

End Time

Which Vessels?   ☑ All MMSIs   ☐ Selected MMSIs

Draw a bounding box or enter the coordinates manually.   **Draw Box**

Upper Left Lat

Upper Left Lon

Lower Right Lat

Lower Right Lon

Min Speed (knots)   0

Max Speed (knots)   25

Batch Size   1

Sampling Rate   seconds ▾

Num Records/Vessel

Request Description

☐ Include KML Track Lines?

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UNCLASSIFIED

ORGANIZATION (DETAILED)

- AISAP data is analyzed and visualized within projects.
- The user must "tell" AISAP what data within the AISAP library to use.
  - When a project is created, it points to NO data.
  - The user must add a source (one or more requests from the data library).
- The user must further "tell" AISAP exactly what data from the source to analyze or visualize.
  - At a minimum, an area of interest (AOI) needs to be added, which is a geofence for the spatial extent to analyze or visualize.
  - Additional filters, such as vessel type or direction of travel, can be included but are not mandatory.
    - The default is all data from the request will be included (e.g. all vessel types).
- If you want to analyze and visualize data in the library using a different tool, such as a coding tool, you can download .csv files of the data.
  - Accessed on the Data Request Tool Screen under Download Files.

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ORGANIZATION (BASIC)

To analyze or visualize data using the AISAP tools, the following steps must be taken:

1. Create a new project (don't forget to name it).
2. Add data (source) to the project.
3. Create an Area of Interest (AOI) (add a geographic filter to the data).
4. Add any additional filters to the AOI.
5. Process the AOI.
6. Once you receive an email saying the AOI has been processed, refresh the screen.

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AISAP ACCESS

ACE-IT Computer:
https://ais-portal.usace.army.mil/

Non ACE-IT Computer (CAC enabled):
https://aisap.usacegis.us/aisap_portal/home.html

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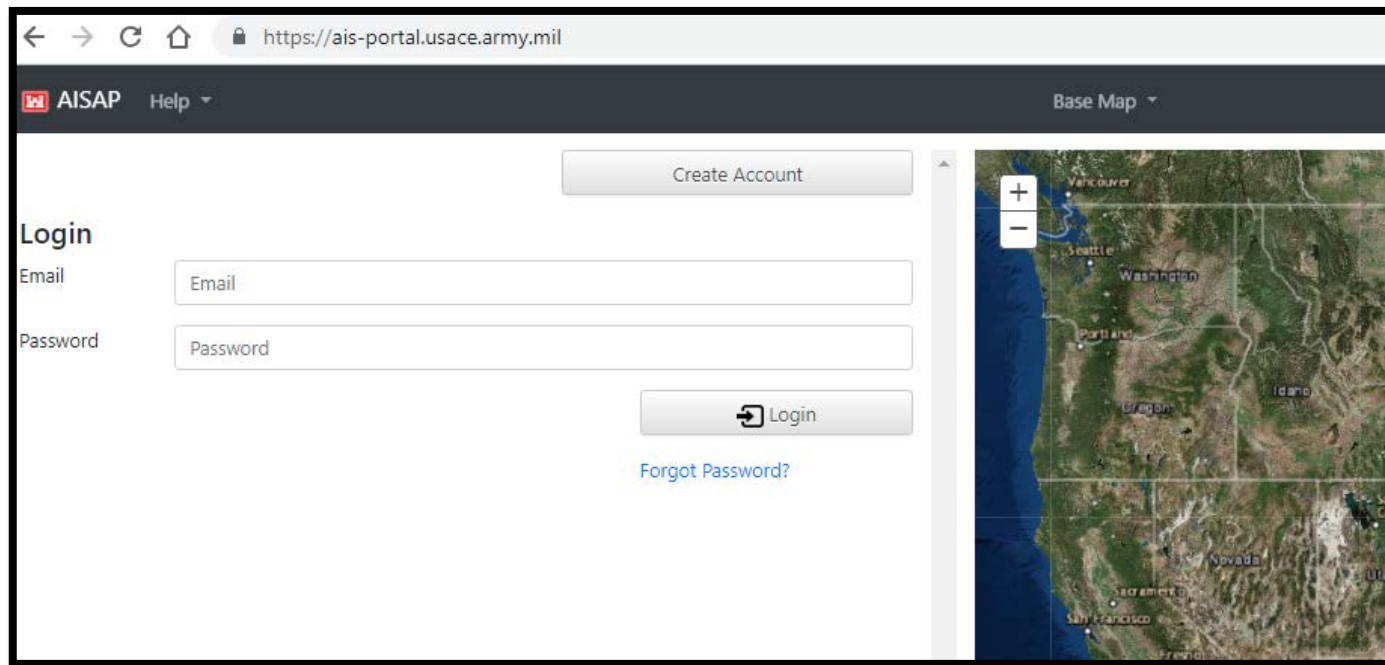
THANK YOU

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http://cirp.usace.army.mil/techtransfer/workshops/AIS2019/AIS-Workshop.php