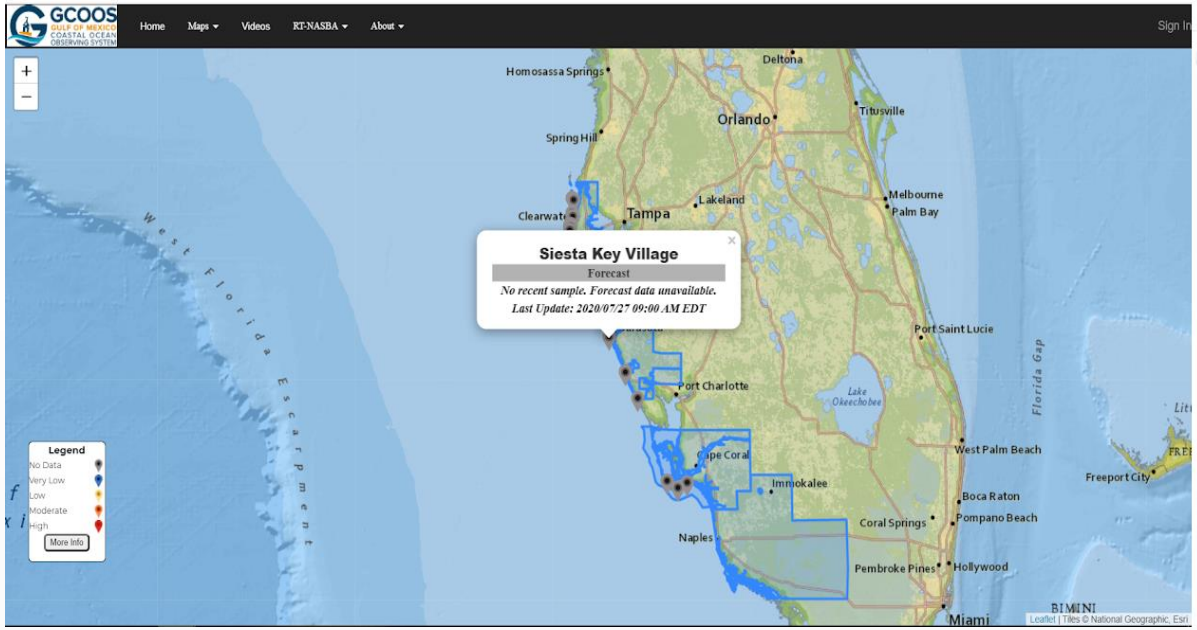
2nd NOAA Workshop on Leveraging AI in Environmental Sciences: Exploiting Space and Ground-Based Observations and Enhancing Earth System Prediction

Nicole LeBoeuf

National Ocean Service, Acting Assistant Administrator

July 30, 2020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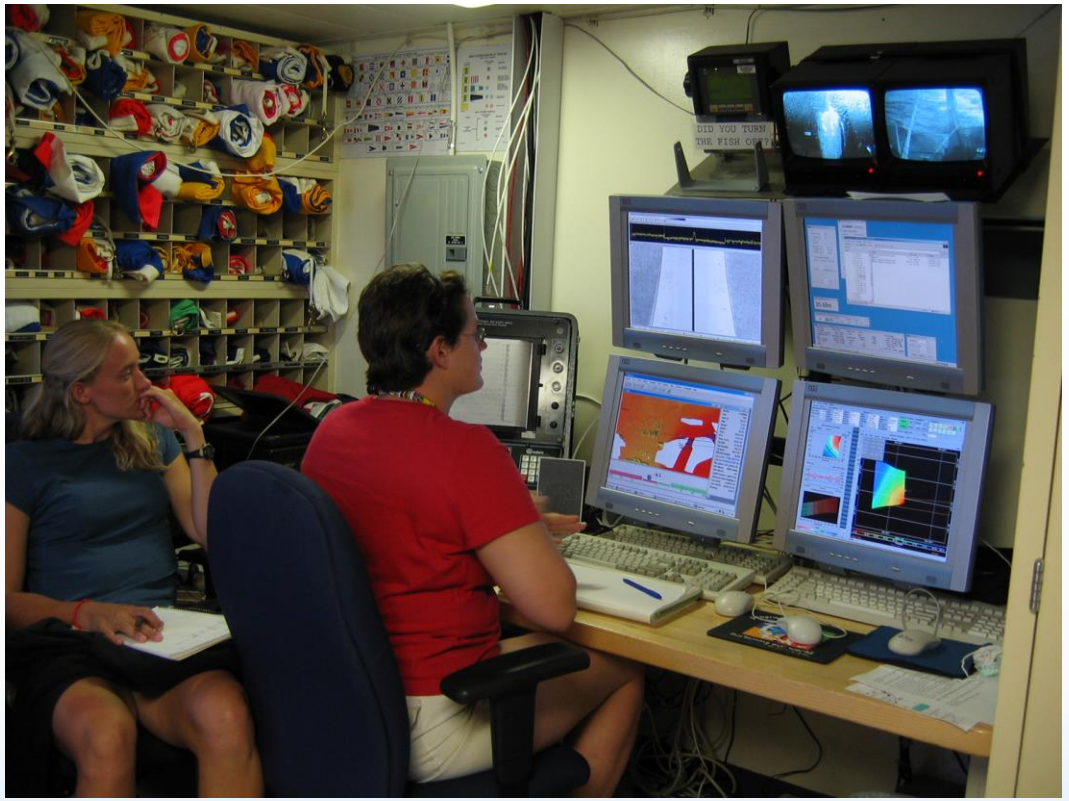
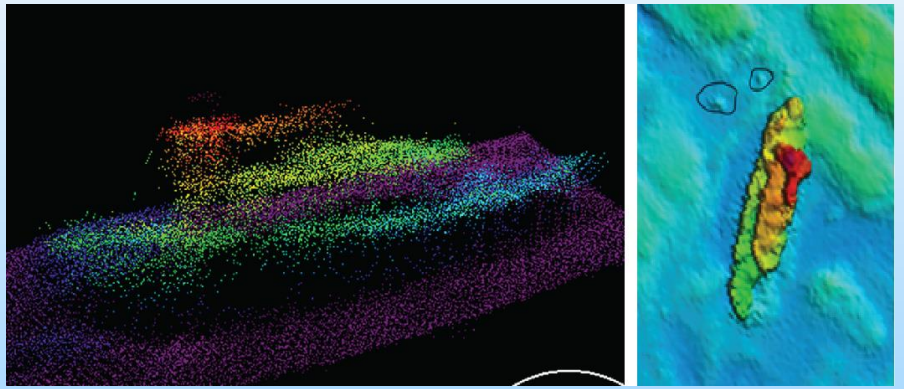
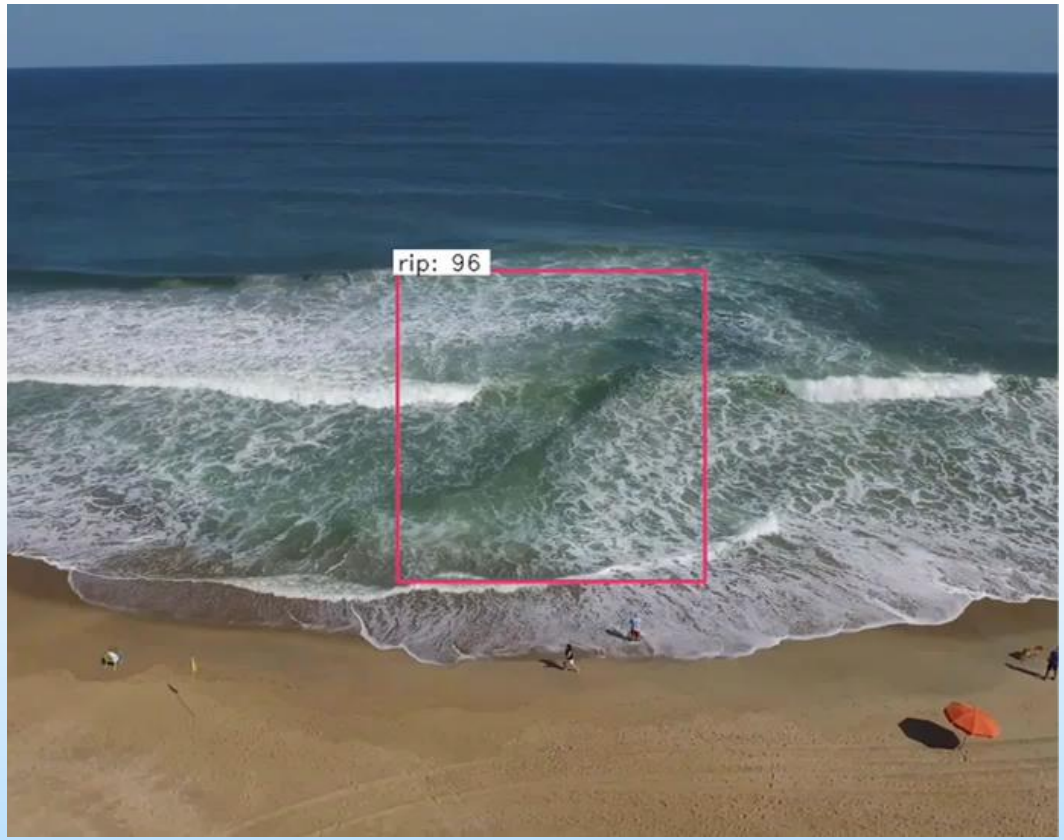
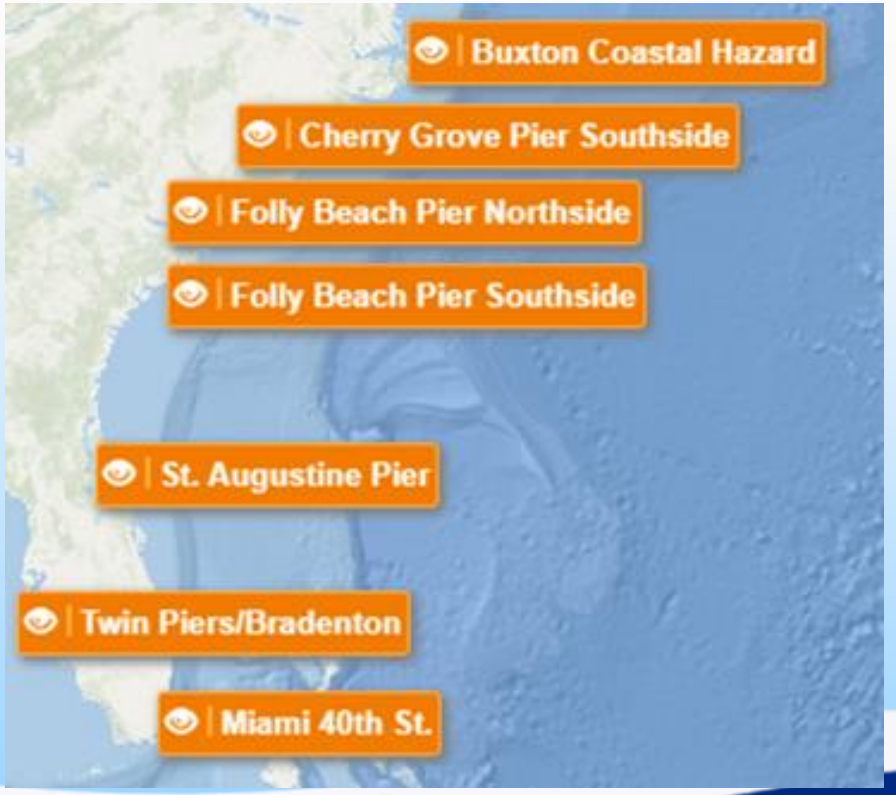


20+
Categories of Land Cover
Developed, High Density
Developed, Low Density
Cultivated Crops
Grassland/Herbaceous
Evergreen Forest
Scrub/Shrub
Palustrine Scrub/Shrub Wetland
Estuarine Forested Wetland
Estuarine Emergent Wetland
Bare Land
Palustrine Aquatic Bed
Developed, Medium Density
Developed, Open Space
Pasture/Hay
Deciduous Forest
Mixed Forest
Palustrine Forested Wetland
Palustrine Emergent Wetland
Estuarine Scrub/Shrub Wetland
Unconsolidated Shore
Open Water
Estuarine Aquatic Bed
1975-2016
Spanning 4 Decades

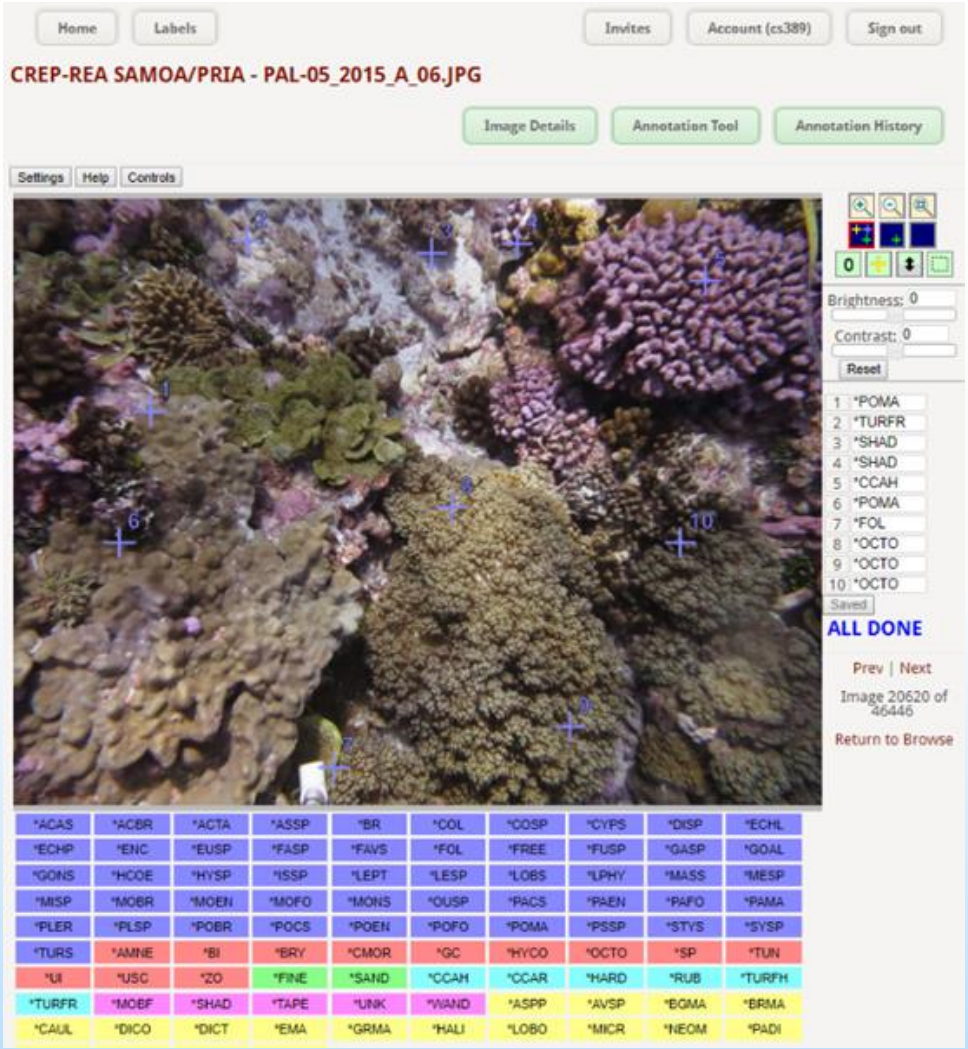


Rip current detection in coastal imagery





CoralNet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*TURS *AMNE *BI *BRY *CMOR *GC *HYCO *OCTO *SP *TUN
*UI *USC *ZO *FINE *SAND *CCAH *CCAR *HARD *RUB *TURFH
*TURFR *MOBF *SHAD *TAPE *UNK *WAND *ASPP *AVSP *EGMA *BRMA
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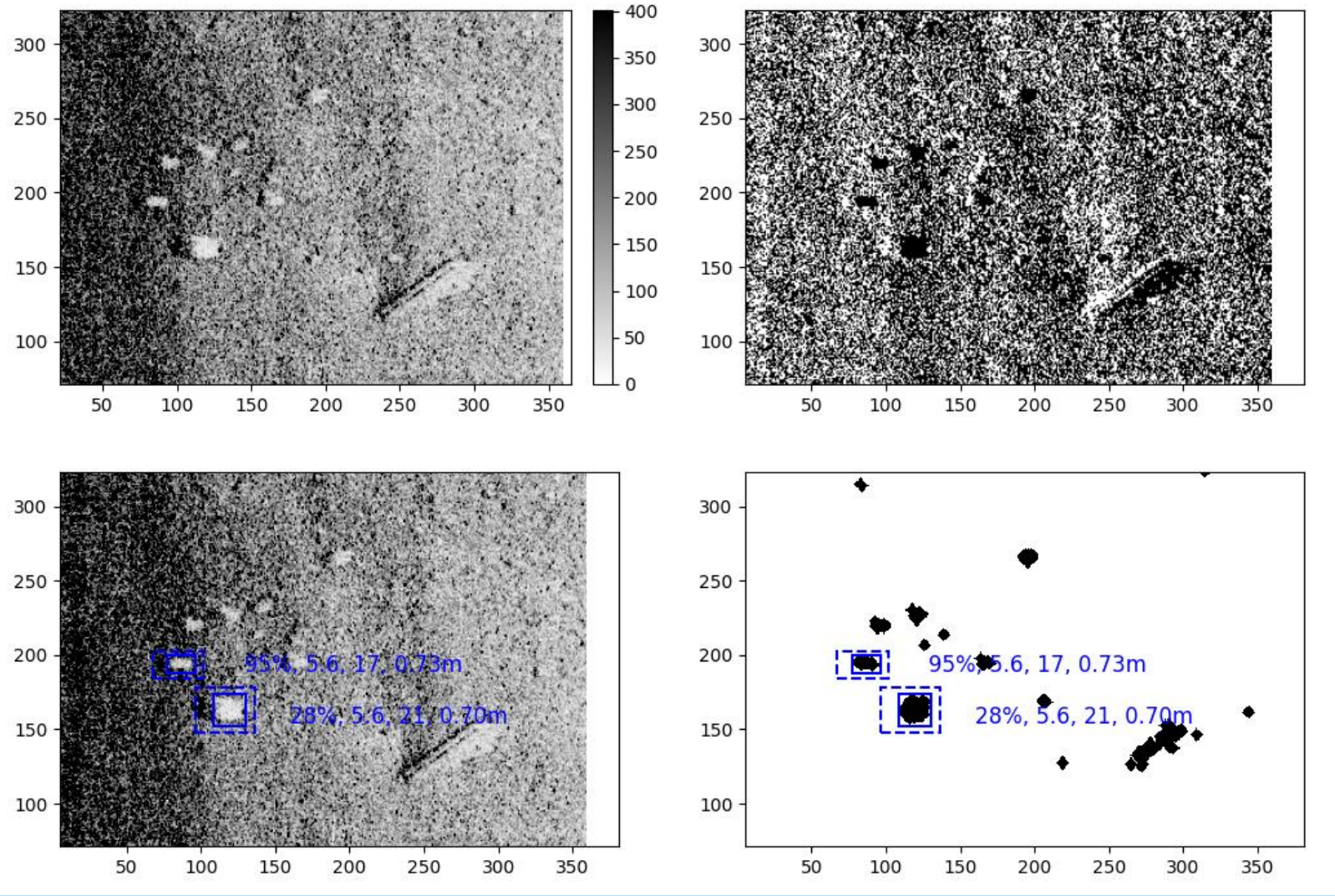
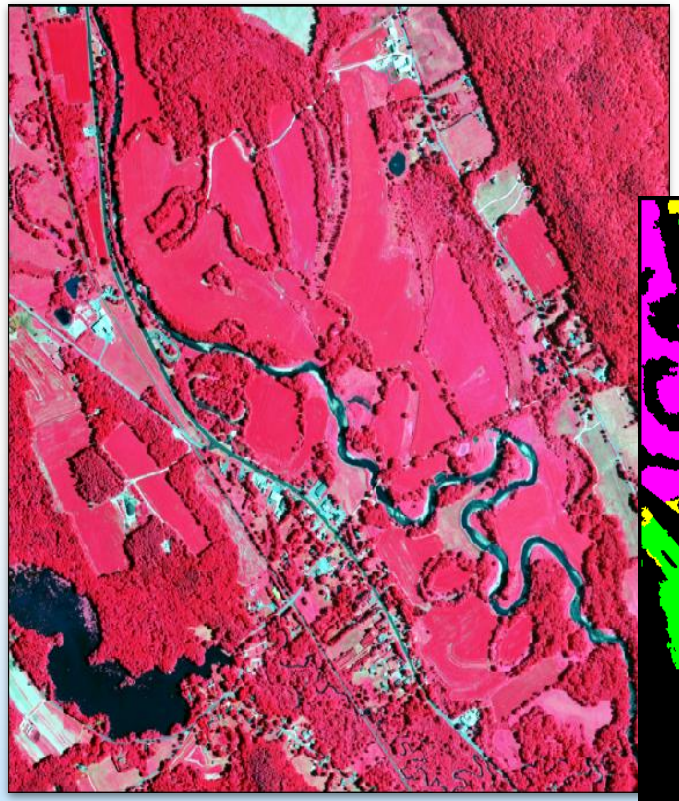
Automated Side Scan Sonar Contact Detection

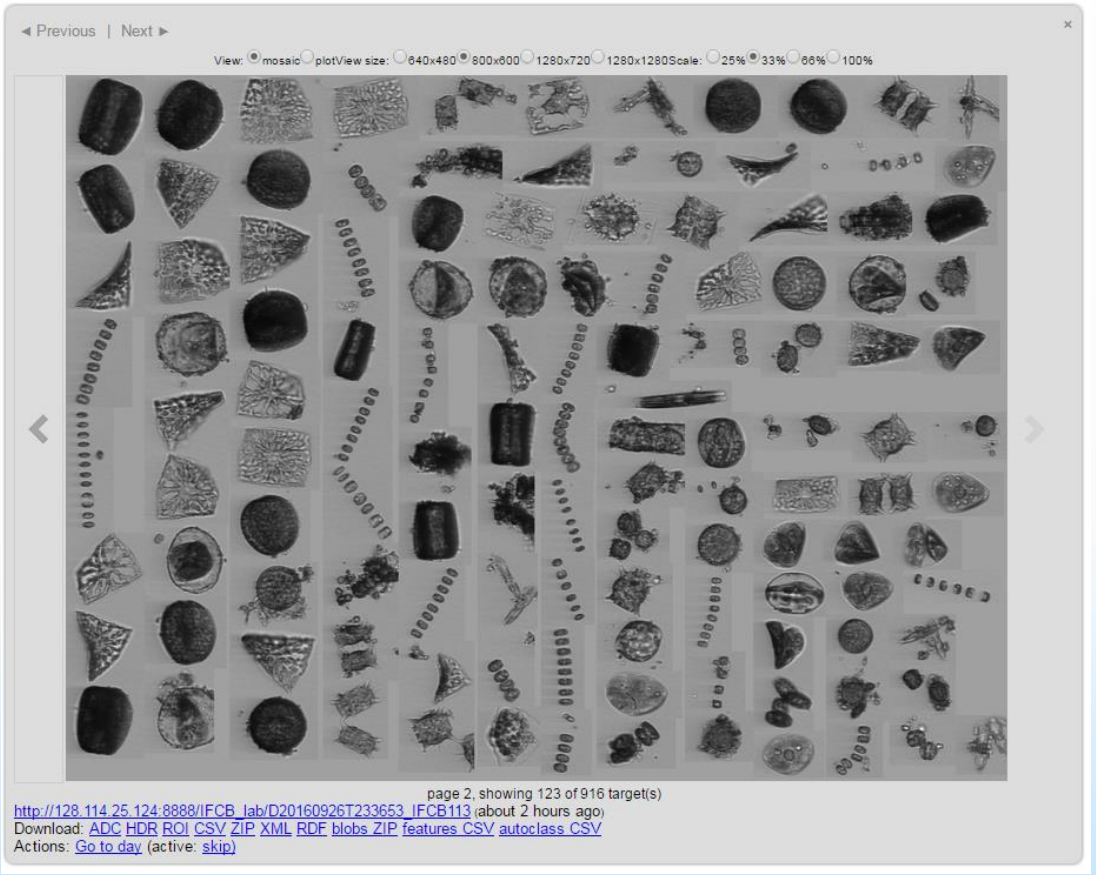


High Resolution Land Cover Mapping

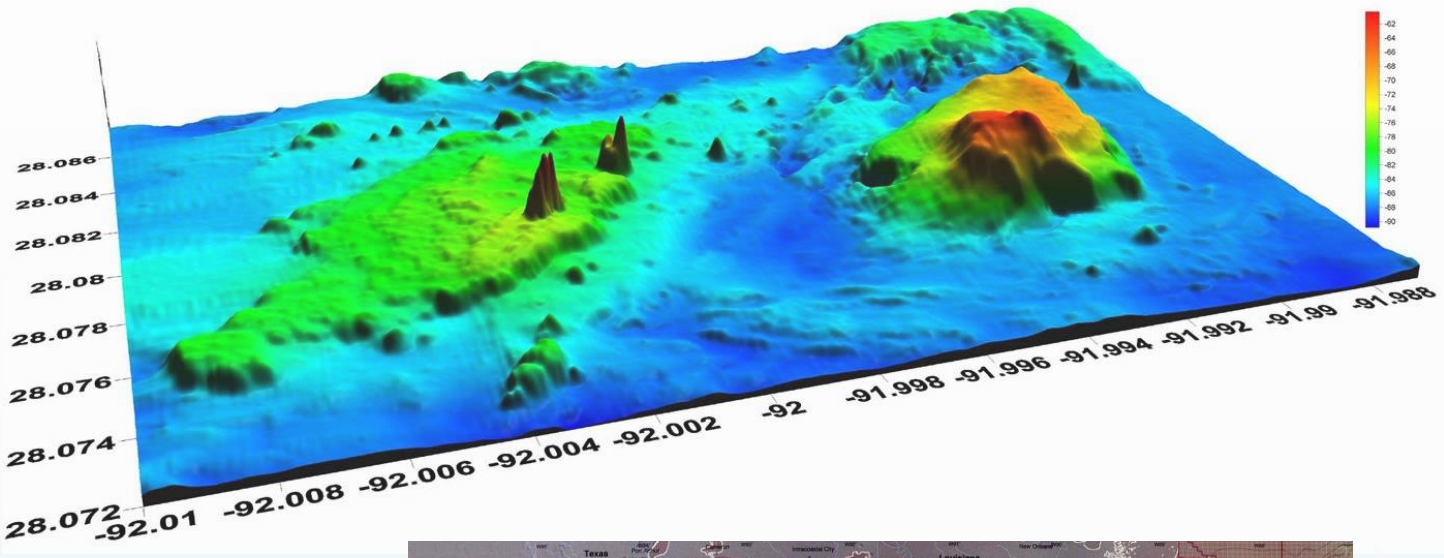
Coastal Change Analysis Program (C-CAP)

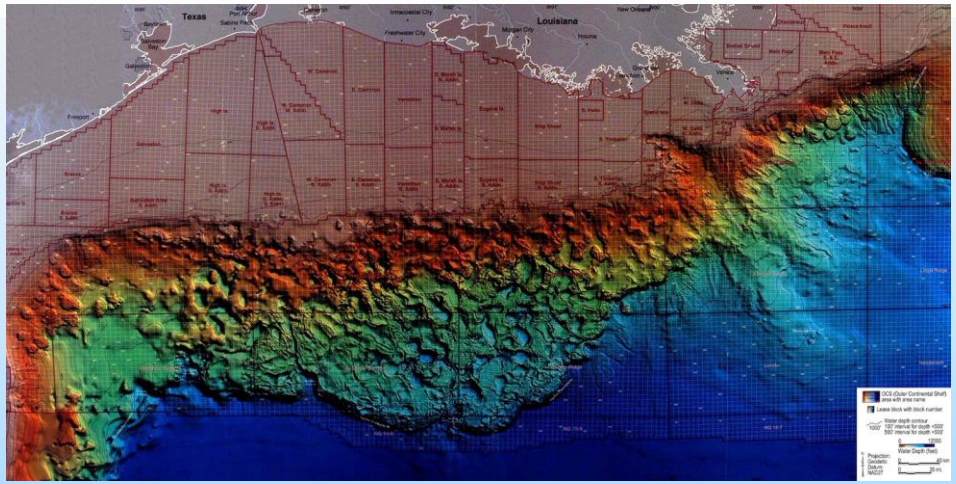


AI and Imaging Flow Cytobots (IFCB)



NOS, AI, and the Future





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