Update on the cyberinfrastructure
CI Iterative Development

Drivers & Algorithms

Asset Management

UI Screens

User Feedback

Build 1
10/10

Build 2
11/12

Build 3
1/20

Build 4
2/18

Build 5
2/28

Increasing Functionality

OOI – O & M
User Interface Categories

• Status User Interface
  – The Status UI will rely-upon engineering, instrument, status log and asset information data that will be made-available by the uFrame system.

• Science User Interface
  – Will contain tools to perform basic analysis of the data. Some of the tools are: GIS mapping of marine assets, visualization of time-series data, trend-analysis tools.

• Asset Management User Interface
  – Front-end for the asset management database. Allows users to view and modify the data within the asset management system. Also provides APIs to allow scripted updates.

• Command and Control User Interface
  – Front-end for the monitoring of marine assets and infrastructure. Provides capability of sending commands to the OOI cabled infrastructure specific to the needs of RSN
UX/UI

X-Y plots

Depth profiles are critical

Temperature & salinity plots
Examples of what “users” will want to visualize

X-Y-Z plots

X-axis could be time, location (lat or long) depending on the question
Expanding the model
Developing tools to increase the crowd sourcing & educational opportunities with OOI Education and Public Engagement team (EPE)
Ocean Predictive Skill
Assessments in the South Atlantic:
Crowd-sourcing of Student-Based Discovery

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Student project using OOI EPE tools to show the MyOcean global model is biased high relative to the NOAA RTOFS and real ocean using ocean glider and argo.
Tim Cowles
Director

Mike Kelly
Sr Project Manager

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Integration Lead

Don Sanshu
CI Project Manager

Software Engr. Lead
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Systems Engr. Lead
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Steve Gaul

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Mike Crowley

OOINET Lead
Tim Raglin

Software Test Engr Lead

Data Manager & Curator

Science SME
Glenn/Schofield
Envisioned Rutgers CI Team

Rutgers Support

Deans and Directors
- Senior VP of Research & Economic Development: RU – Chris Molloy
- Exec. Dean: School of Environmental & Biological Sciences: RU – Bob Goodman
- Executive Dean: School of Arts & Sciences: RU – Peter March

Leadership and Oversight
- Cyberinfrastructure: RU – Manish Parashar
- Science/User: RU – Scott Glenn
- Science/User: RU – Oscar Schofield

Software Team
- Software Team Manager: 1 FTE, RU – TBD
  - Software Maintenance: 1 FTE, RU – TBD
  - Software Test Eng.: 1 FTE, RU – Maxwell Chen
  - Software Architect: 1 FTE, RU – TBD

System Team
- Sys./Network Engineer & Operator: 1 FTE, RU – Bill Kish
- Sys. Engineer and Administrator: 1 FTE, RU – Jim Housell

User Services Team
- Education & Help Desk: 1 FTE, RU – TBD

Data Team
- Data Manager Science Quality: 1 FTE, RU – TBD
- Data Evaluator: 1 FTE, RU – TBD

COL

Management: 1.8 FTE

Operation: 12 FTEs

Rutgers Support