



SUMMARY
PRECISION MARINE NAVIGATION
 1 OCTOBER 2020

HOW COULD WE IMPROVE ENGAGEMENT?



EDUCATION, LICENSING, MANDATION: "THESE THINGS NEED TO MOVE TOGETHER!"

AUTONOMOUS and HIGH-AUTOMATION SHIPPING:

HOW WILL WE "SERVE" THEM, EVEN THOUGH THEY AREN'T HUMAN USERS?

Consider THE INCREASING ROLE OF CONTROL CENTERS!



- REGULAR BLOG POSTS
- QUARTERLY EMAIL UPDATES
- CONGRESSIONAL BRIEFINGS
- LIST SERVE
- CONNECTIONS with TRAINING ACADEMIES

Could we leverage platforms like LINKED IN?

... FLEET OPS centers?

1 OCT 2020



REAL TIME DATA NEEDS VARY...

WE ARE ADDING NEW PORTS while GROWING EXISTING PORT SYSTEMS.

NOCMP

14 Operational Forecast Systems!

National Operational Coastal Modeling Program

WE ARE FOCUSED on IMPROVING DATA RELIABILITY and ACCESS.

RECAPITALIZATION of EXISTING STATIONS and SENSORS
NEW TECHNOLOGY and INSTRUMENTATION
STRONGER OUTREACH and DATA ACCESS

FORMALIZE the PROTOTYPES... and then START to ENGAGE.

"BETTER FORECASTING"

HOW DO WE PROVIDE UPDATED INFORMATION?

"BE ABLE TO WARN for the FULL EVOLUTION of an EVENT."

HOW DO WE VALIDATE THIRD PARTY INFO?

and INTEGRATE IT...

PORTS

Physical oceanographic Real Time System

NCOP

National Current Observation Program



HOW DO WE MODERNIZE MARITIME FORECASTS?

... and WHAT DID WE LEARN from the OCTOBER 1, 2015 EL FARO DISASTER?



WHAT IS THE FUTURE of REAL-TIME OBSERVATIONS, PREDICTIONS, NOWCASTS/FORECASTS, and other GEOSPATIAL INFORMATION?



INTEGRATED into ELECTRONIC CHARTING...



STANDARDIZED...



DISSEMINATION...

"from the KAYAKER to the CONTAINER SHIP"



TRAINING... and SIMULATION?

WE CAN NO LONGER DESCRIBE the WEATHER USING TEXT!

WHAT ARE THE BEST FORMATS for DISSEMINATING DATA?

HIGH-RESOLUTION GRAPHICAL DISPLAYS.



HOW DO WE FORMAT INFORMATION from a VARIETY of PORT SYSTEMS and GET IT OUT through AIS?

"OUR PRODUCTS NEED TO BE SEAMLESS!"