



NOAA Transitions: FY20 Quarter 3

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DRAFT Presentation to the NOAA Research Council
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PURPOSE

The purpose of this presentation is to

- 1) convey information about NOAA transitions from April 1 – June 30, 2020 (FY20 Q3), and
- 2) ask for feedback to improve future quarterly reports



BACKGROUND

- Transition of NOAA R&D to operations, applications, commercialization, and other uses (R2X) is key to delivering continually improved products and services
- In April, the NOAA Research Council requested quarterly transition updates from the Line Office Transition Managers Committee



BACKGROUND

- The LOTMC developed a timeline and pilot process for collecting quarterly transition updates through 2020
- The LOTMs sent a tasker to collect transition data
 - Focus of the pilot was on projects that transitioned from April 1 – June 30, 2020
 - The LOTMC plans that future quarterly transition updates will also be for the previous quarter for data quality reasons
 - The tasker was prepopulated with information from the NOAA Research and Development Database (NRDD)



RESULTS

- 16 transitioned projects were identified for FY20 Q3
- Organizations that were adopters for transitioned projects included NWS, NOS, NMFS, the Federal Aviation Administration (FAA), the European Center for Disease Prevention and Control (ECDC), and the Food and Agricultural Organization (FAO) Reference Center for Bivalve Mollusc Sanitation
- The full list of projects can be found in [this spreadsheet](#)



Transition Highlight – Unmanned Systems

Advanced UAS sensor development for marine mammal monitoring

NOAA OAR/NMFS/NESDIS developed and transitioned into operations a combined UAS + visible imaging camera payload.

- Advanced imaging analyses from this effort significantly advanced a proof-of-concept involving the use of multi-spectral imagery into a conceptual application validated in a relevant environment.
- This effort paved the path for innovative work to be executed in a follow-on effort involving the use of a UAS-integrated multi-spectral camera whose data would be input into an advanced software classification (machine learning) system used to automatically identify marine mammals while greatly reducing the amount of time and effort required to count and assess certain seal wildlife populations in remote locations.



Transition Highlight – Genomics

Global Vibrio Risk fields: Developing a series of products describing the risk of vibrio-related waterborne infections

NOAA OAR and NESDIS developed global daily, short-term forecast and cumulative fields that describe risk of vibrio-related waterborne infections.

- These products are routinely being used by the European Center for Disease Prevention and Control (ECDC) Vibrio Map Viewer as a tool for early warning system. This product is continuously improved using data from models, satellite and genomics.
- The global assessment is distributed using Web Services within a Service-oriented Architecture (SOA) framework.



Transition Highlight – Data



Piecing together 12,000 years of Earth's climate story

NOAA NESDIS developed and released a new data product combining temperature reconstructions of the last 12,000 years to generate global and regional mean temperature time series over this interval.

- NOAA released the most comprehensive database ever assembled of proxies – many available publicly for the first time – that can tell scientists about temperatures since the end of the last ice age
- This effort is the result of an international partnership between NOAA and academic universities, with funding contributions from NOAA OAR, the U.S. and Swiss National Science Foundations, the Heising-Simons Foundation, and the Past Global Changes Project.





QUESTION FOR THE RESEARCH COUNCIL

Does the transition information presented today meet your needs?

- The LOTMC conducted this tasker as a pilot for the quarterly transition updates, and would like to solicit Research Council feedback regarding improvements or modifications for future transition updates



Thank You!

