PMEL Ocean Climate Stations

Anchoring Process Studies in the North Pacific

Meghan F Cronin[1], Dongxiao Zhang[2], Adrienne Sutton[2], Jennifer Keene[2], Chris Meinig[1]

1. NOAA PMEL, Seattle WA; 2. UW JISAO, Seattle WA

What new **technologies** or **approaches** can be applied to improve our monitoring and ultimately prediction of ocean extremes and their impacts?

No Shiptime Required !

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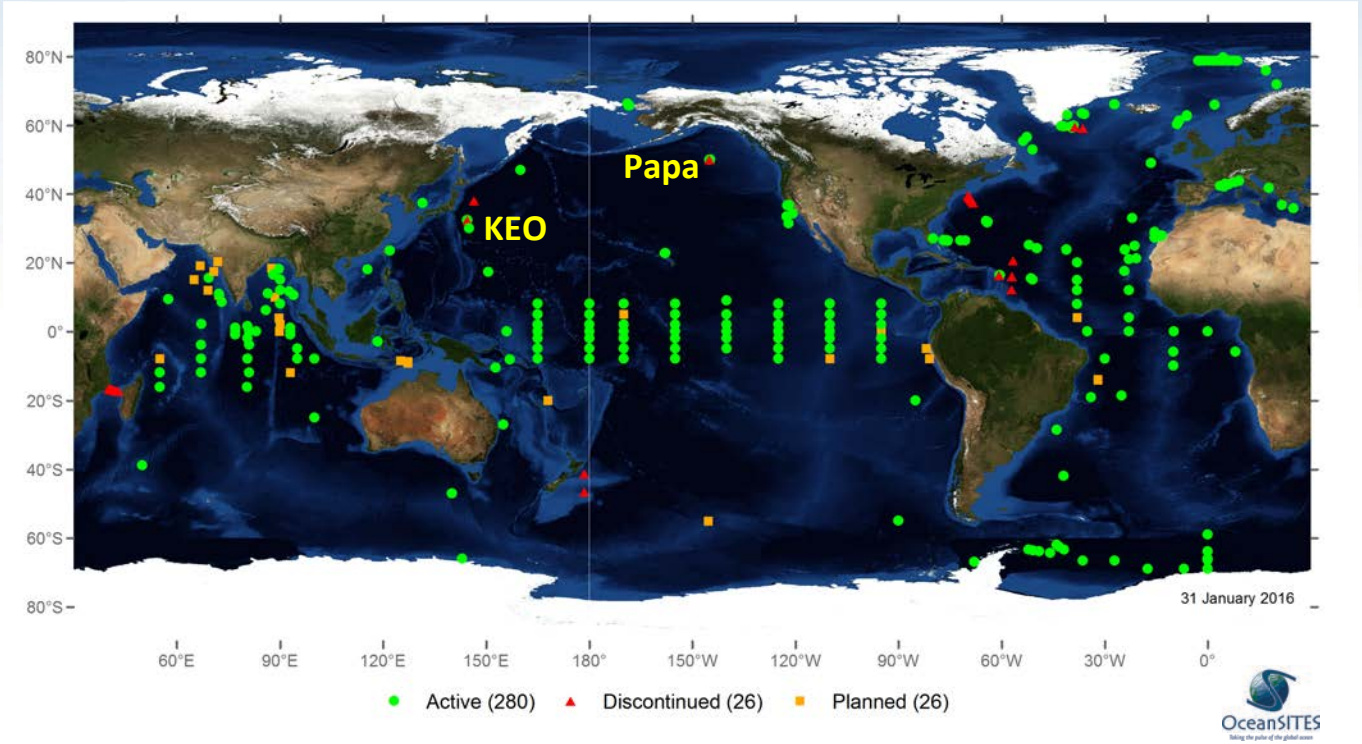
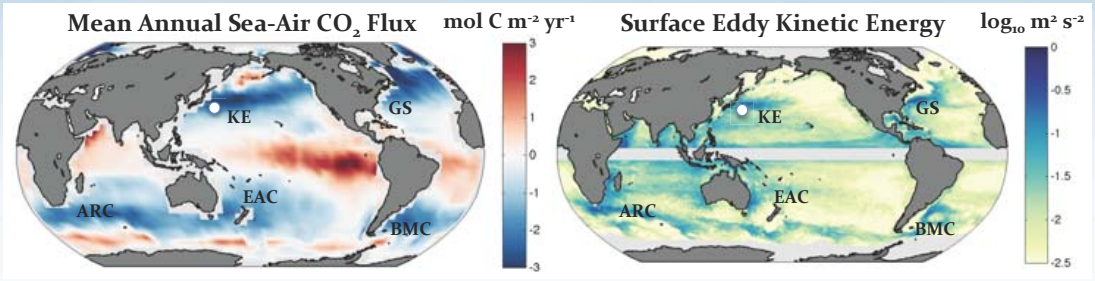
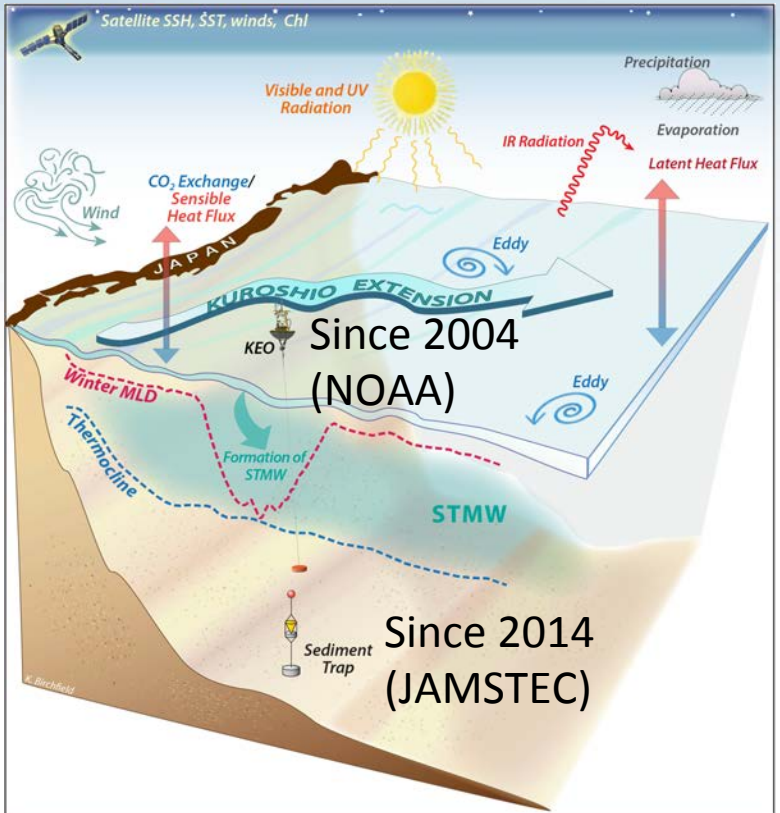
www.pmel.noaa.gov/OCS



Kuroshio Extension Observatory (KEO)

NOAA Surface Mooring & JAMSTEC Sediment Trap

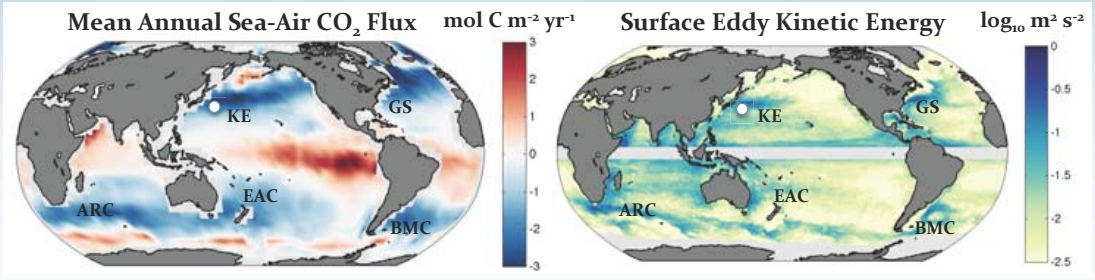




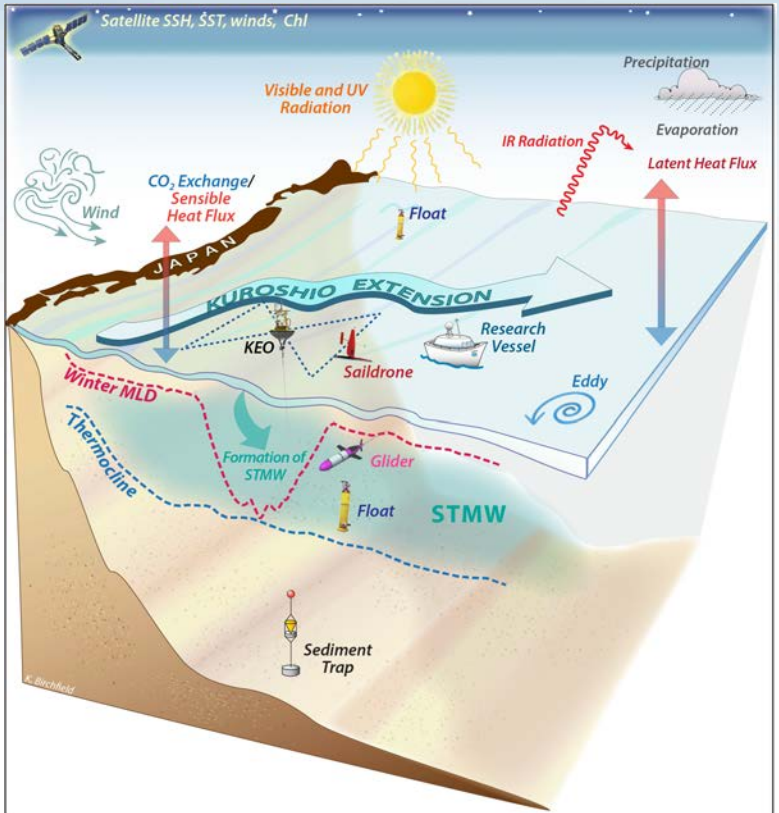
See Poster: "**Net community production at the Kuroshio Extension Observatory**" by Fassbender, Sabine, Cronin, and Sutton

Carbon Hot Spot

A highly-leveraged field study, proposed to NSF, in collaboration with Japanese scientists, and with Japanese shiptime



Carbon Hot Spot will help show how ocean carbon uptake, carbon cycling, and sequestering of carbon by mode water formation are influenced by mesoscale and sub-mesoscale processes.



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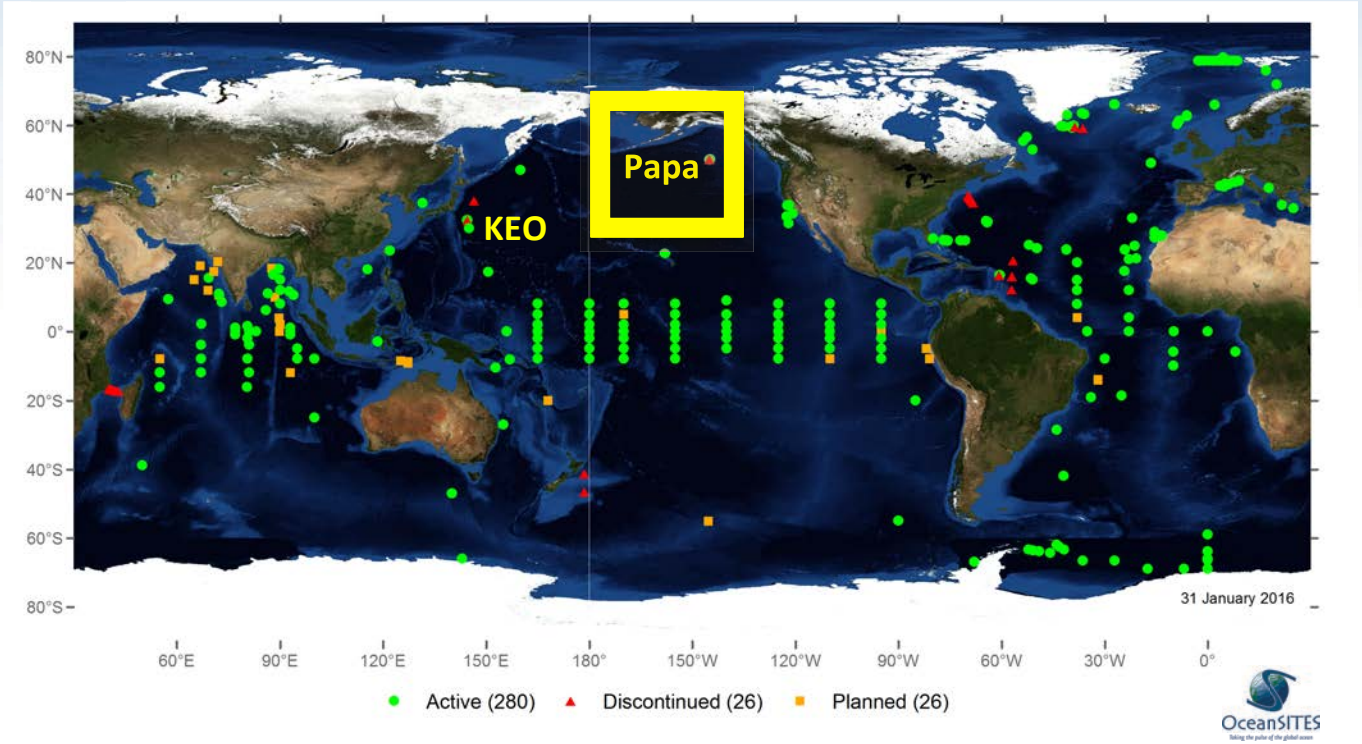
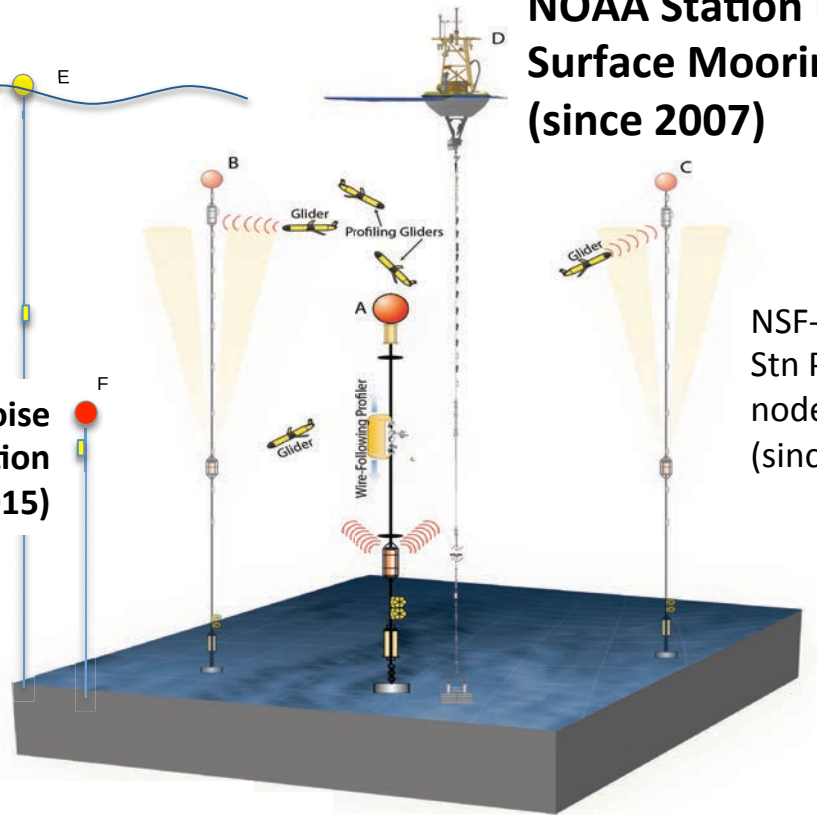


OCEAN OBSERVATORIES INITIATIVE

The OOI is funded by the National Science Foundation

NOAA Station P Surface Mooring (since 2007)

NSF-funded UW APL Waverider (since 2010)



NOAA Noise Reference Station (since 2015)

NSF-OOI Stn P global node array (since 2013)

PMEL

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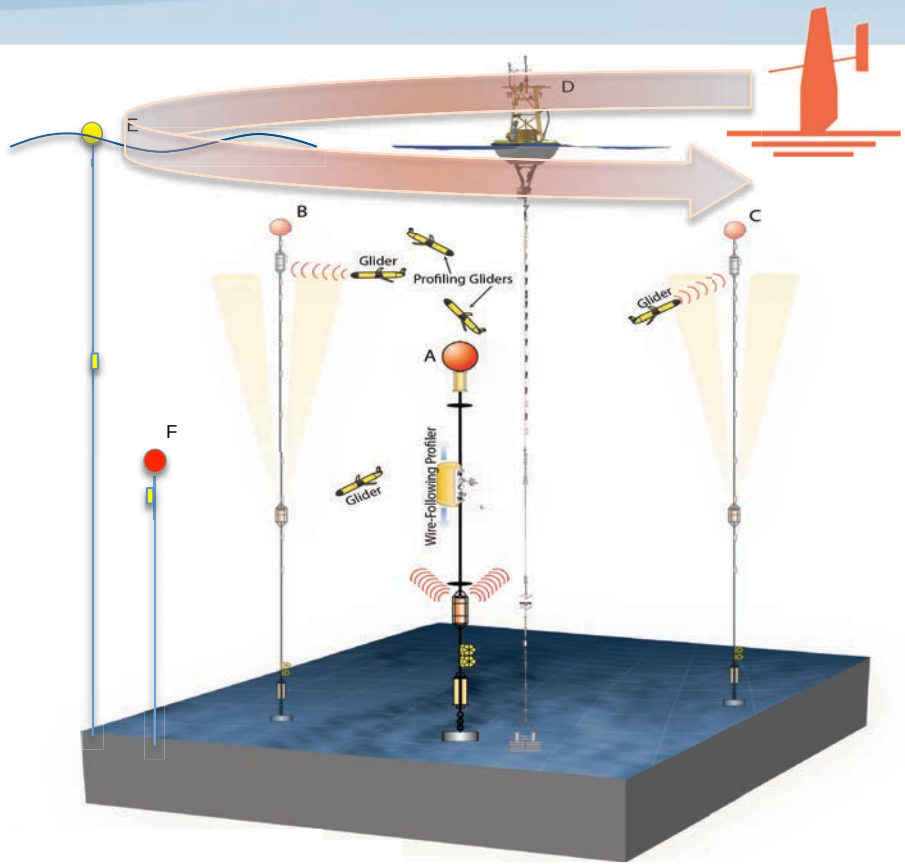
NASA EXPORTS

EXport Processes in the Ocean from RemoTe Sensing

EXPORTS Goal: To predict the export and fate of ocean Net Primary Production (NPP) from satellite and other observations.

Call by NASA Ocean Biology and Biogeochemistry Program for **proposals in support of EXPORTS field campaign at Station P**, due April 2017.



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Saildrone can bring new capabilities to the observing system. Its ability to do adaptive sampling makes it ideal for process studies.

Building process studies around OceanSITES leverages research to help improve our understanding of and ultimately prediction of ocean extremes and their impacts.

No Shiptime Required !