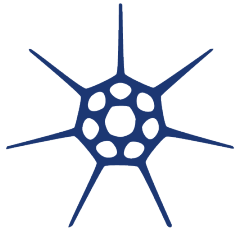
# Cloud computing of key NASA oceanographic data: Implications for automating aspects of ecosystem status reports

**Marisol García-Reyes, Chelle Gentemann**, Jeffrey Dorman & William Sydeman

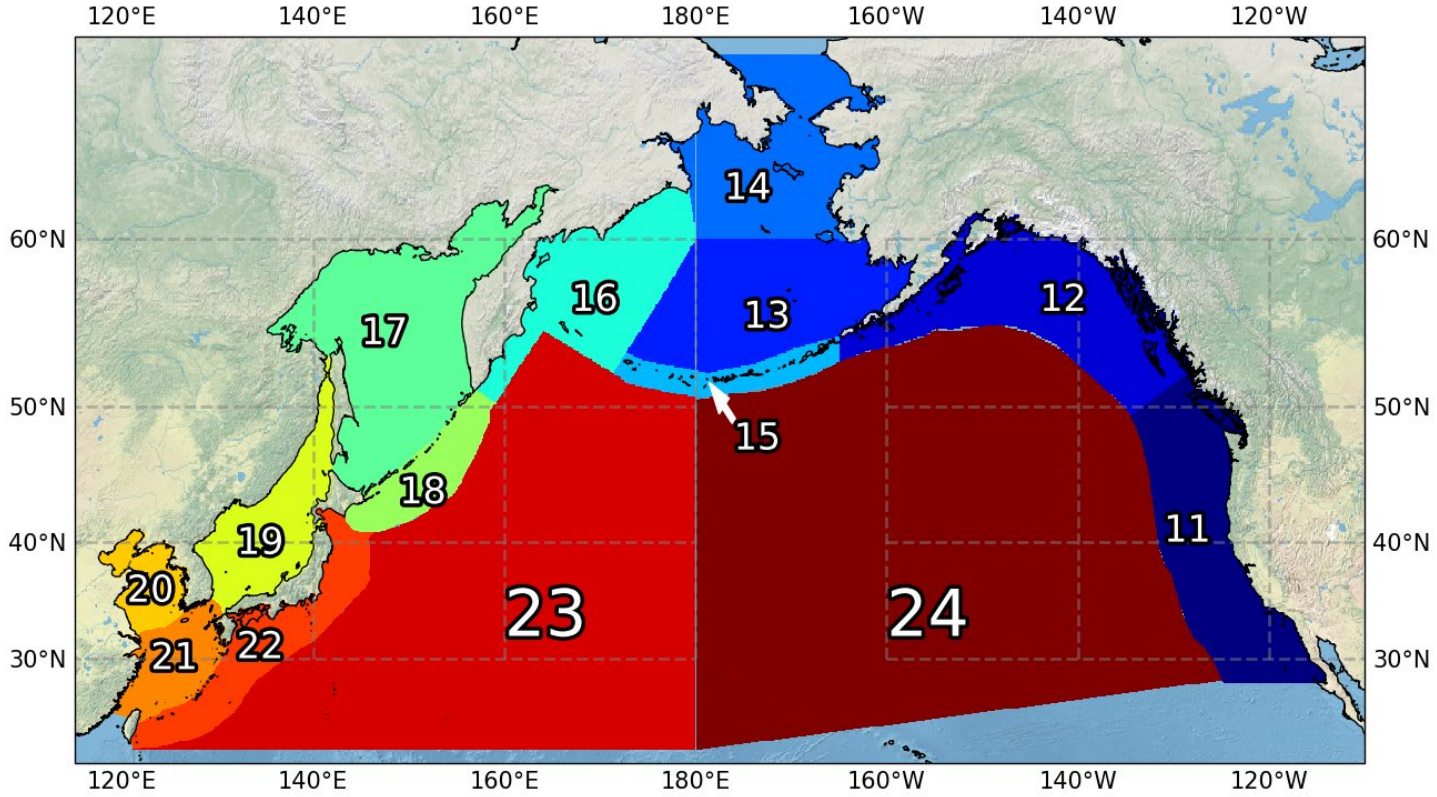





developmentSEED

# Including physical data into the IEAs

- Satellite data suitable for it
- Large amounts of data available, in coverage and temporal extent
- Allows for standardization across the PICES Regions



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- Demand for computational, bandwidth & storage capabilities

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- Programming expertise needed
- Demand for computational, bandwidth & storage capabilities

- Technology is developed to the point to which this could & should be doable & easy

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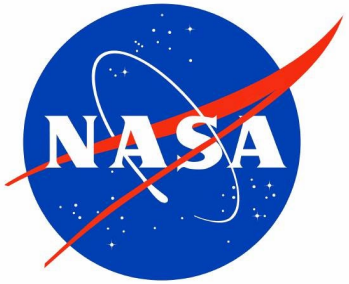
Programming





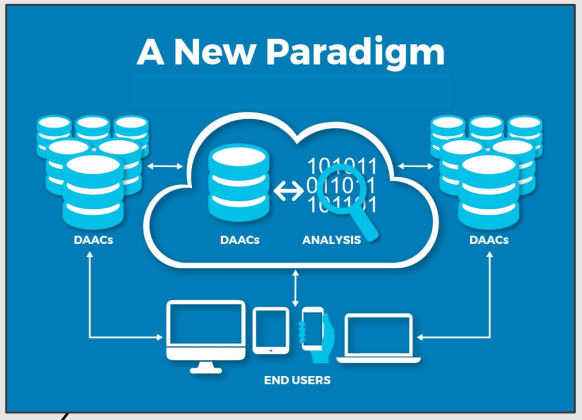
Data & Data sharing


Code Sharing

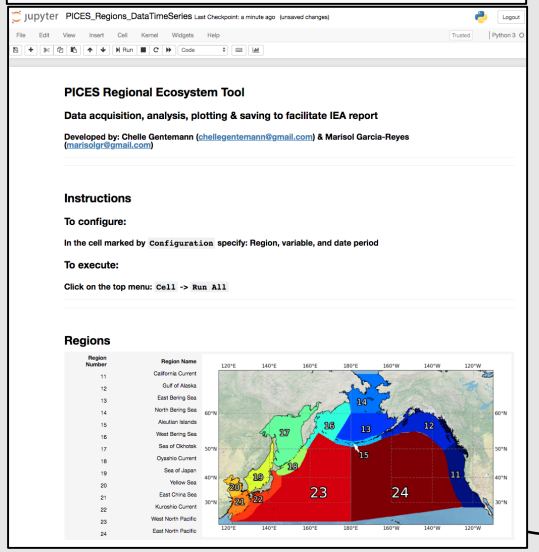


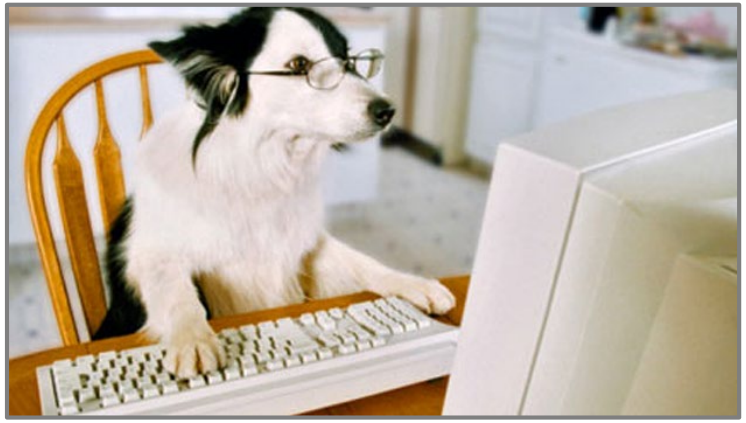


Cloud Computing



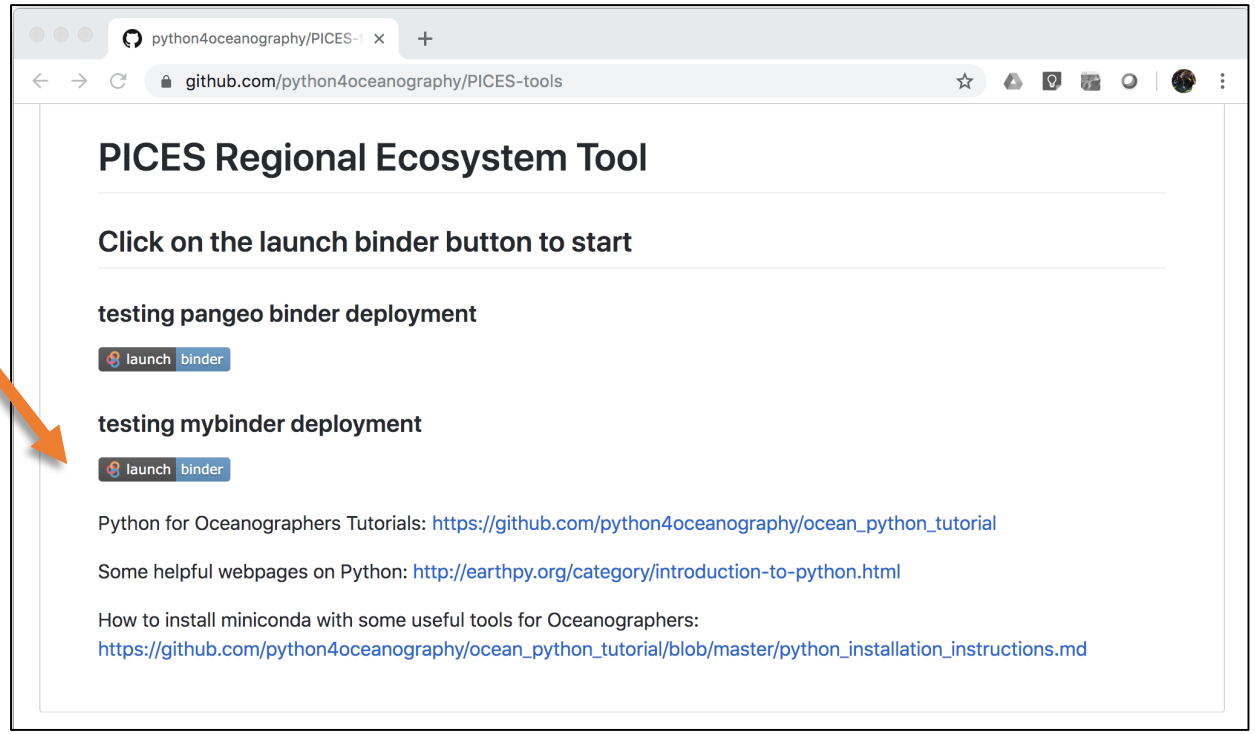

## PICES Regional Ecosystem Tool



# How to access the PICES RET

- On your web browser
  - https://github.com/python4oceanography/PICES-tools
- Click on the button to load the ‘binder’ with the PICES RET



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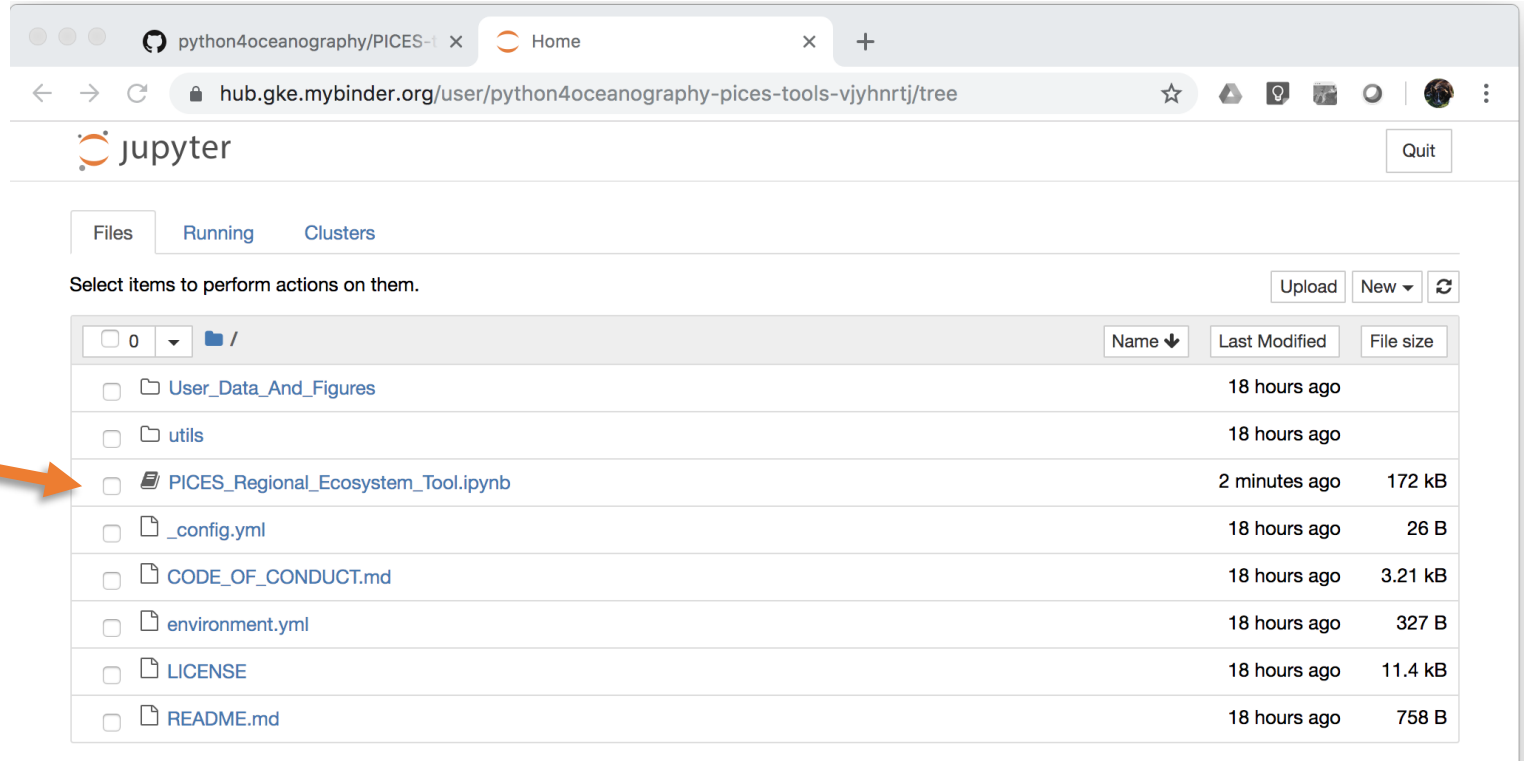
Click on:
PICES_Regional_Ecosystem_Tool




You could also download (clone) it from GitHub directly

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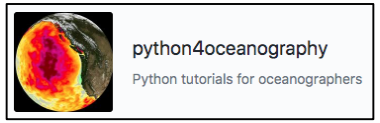
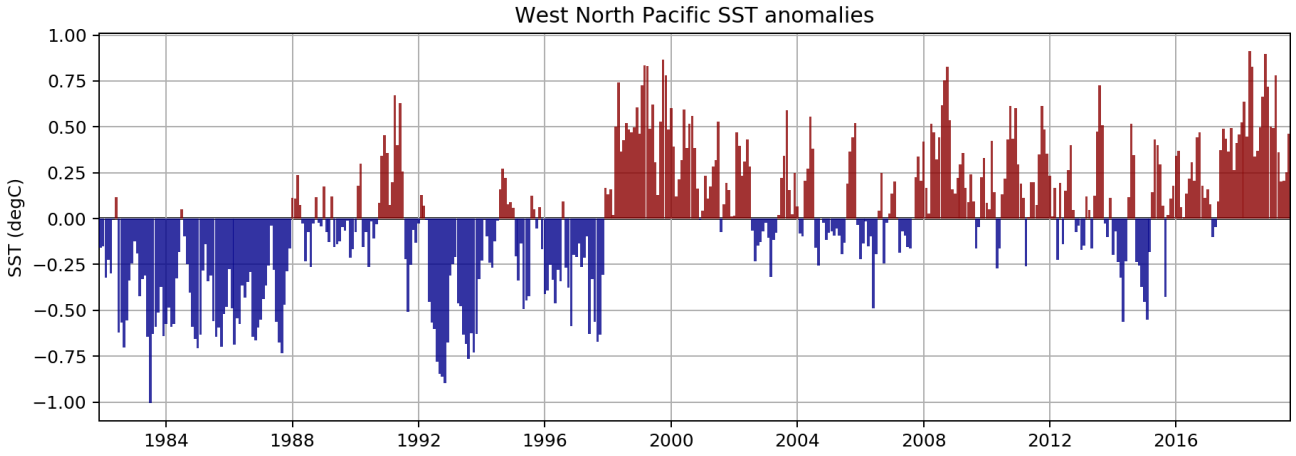
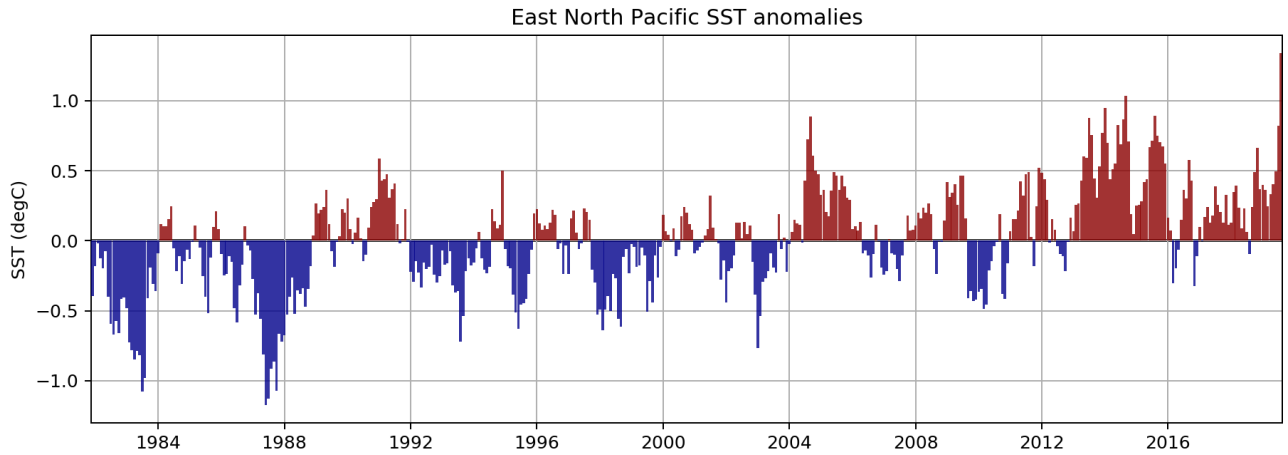
# demo

https://github.com/python4oceanography/PICES-tools

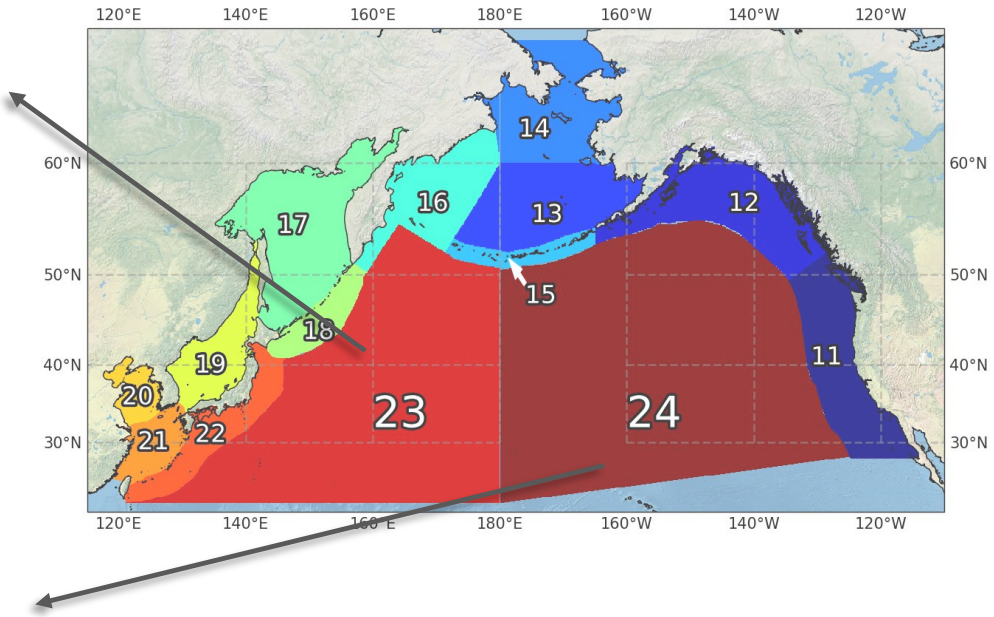


# Comparison among regions

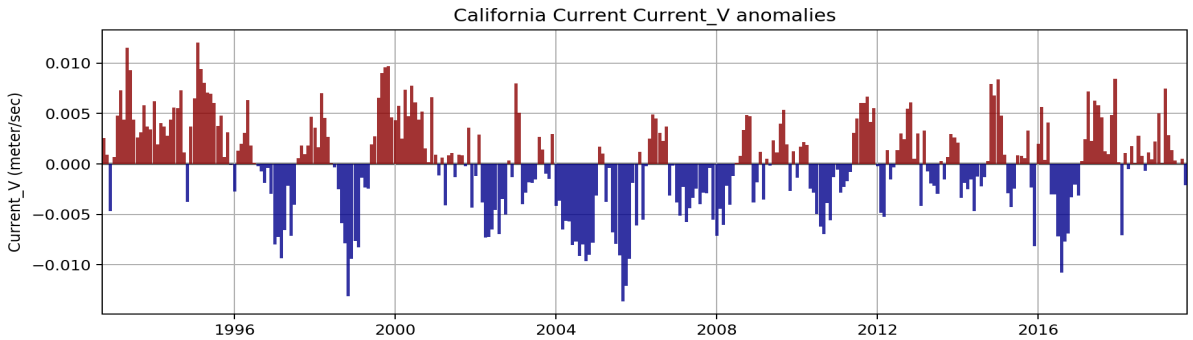


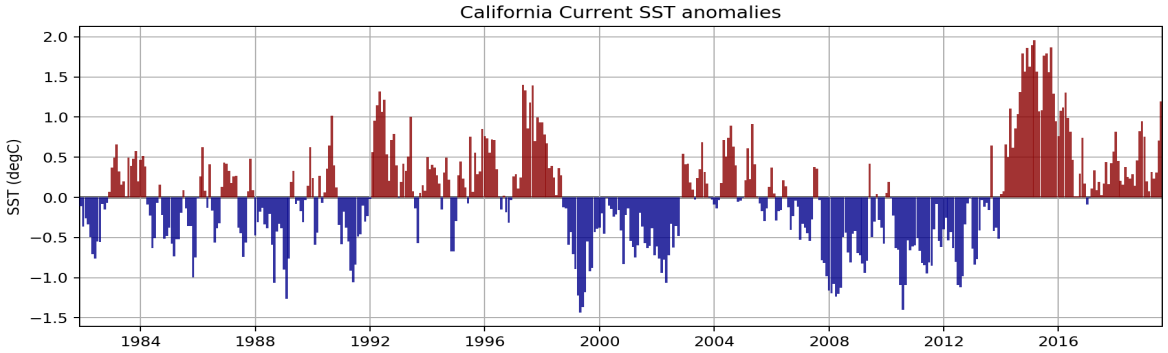



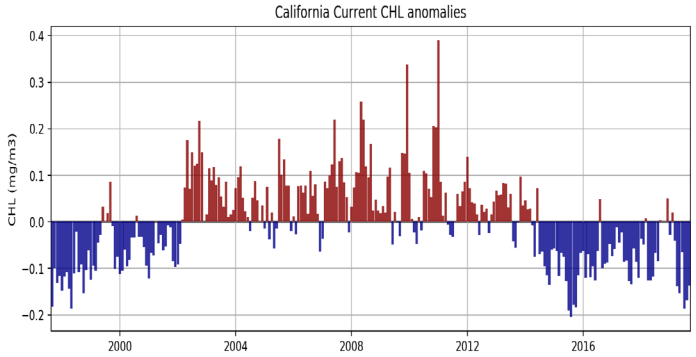

## Sea Surface Temperature

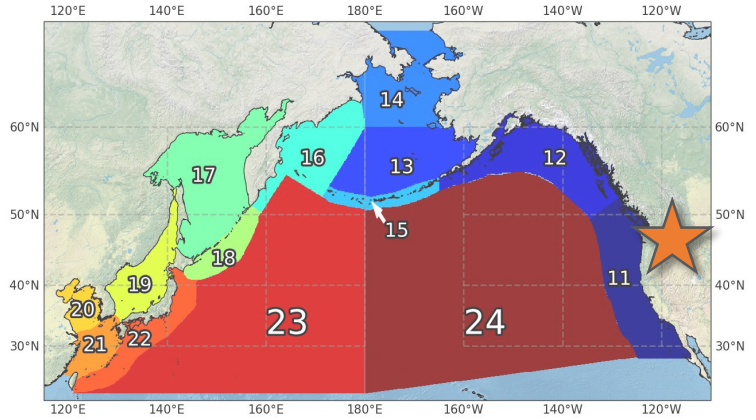


# Comparison of Data




Meridional Surface Current

Sea Surface Temperature

Chlorophyll Concentration

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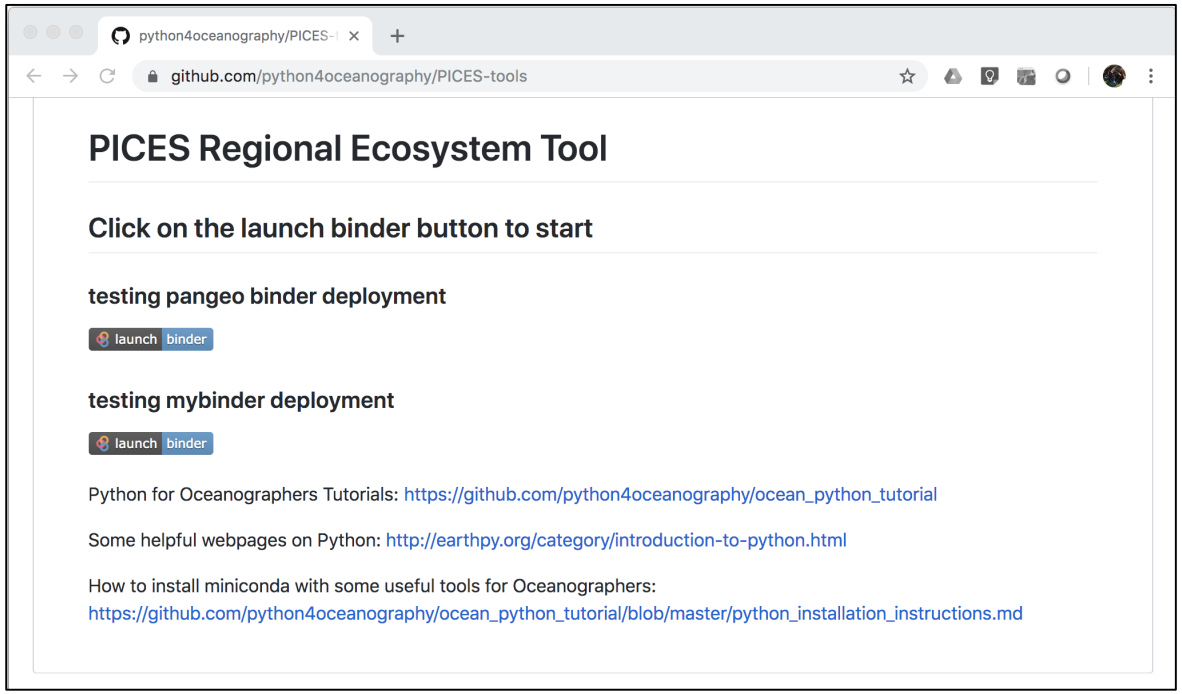


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Marisol García-Reyes <marisolgr@gmail.com>