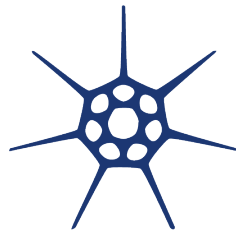


Cloud computing of key NASA oceanographic data: Implications for automating aspects of ecosystem status reports

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



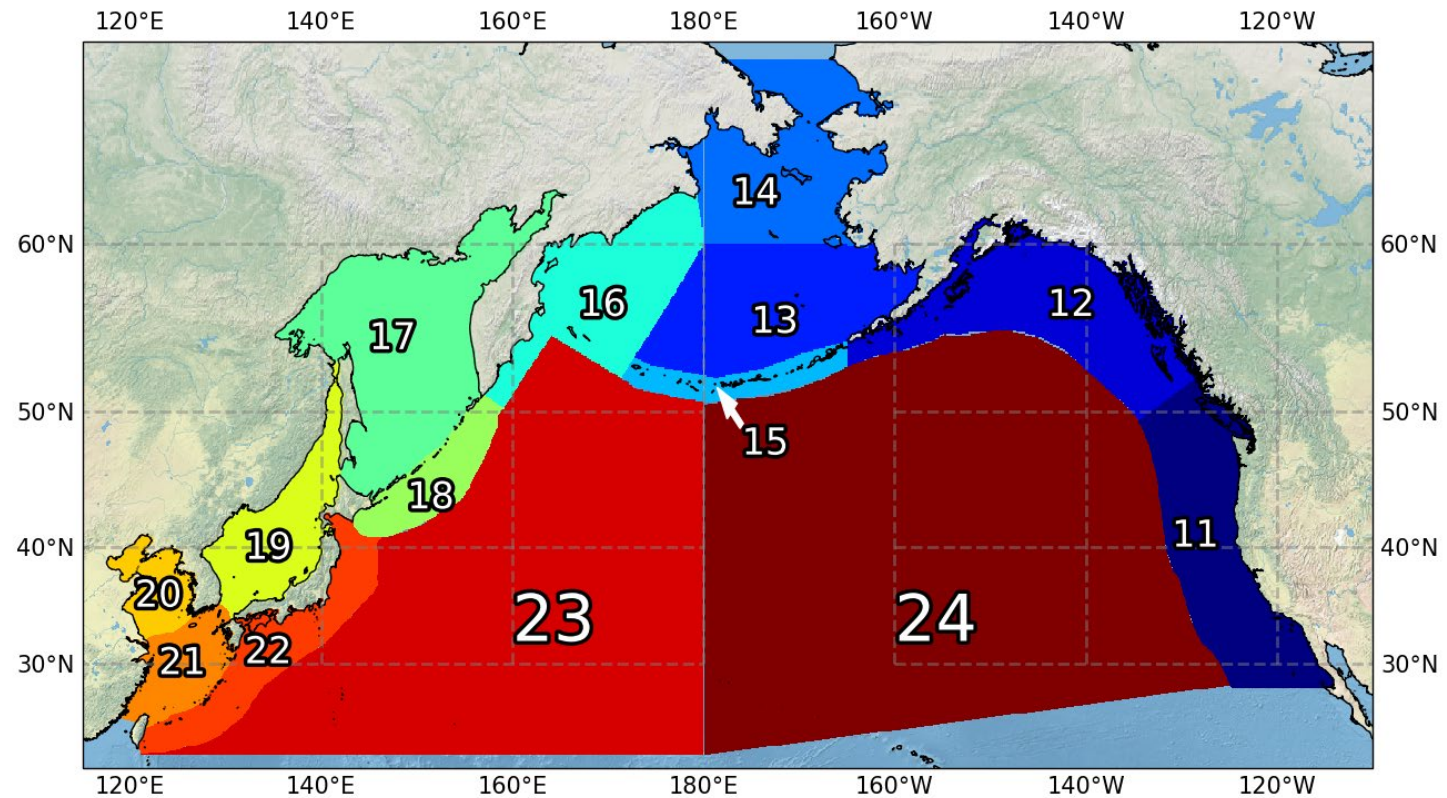
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developmentSEED

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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Including physical data into the IEAs

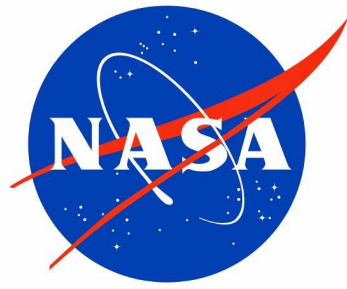
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- Demand for computational, bandwidth & storage capabilities

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



Programming



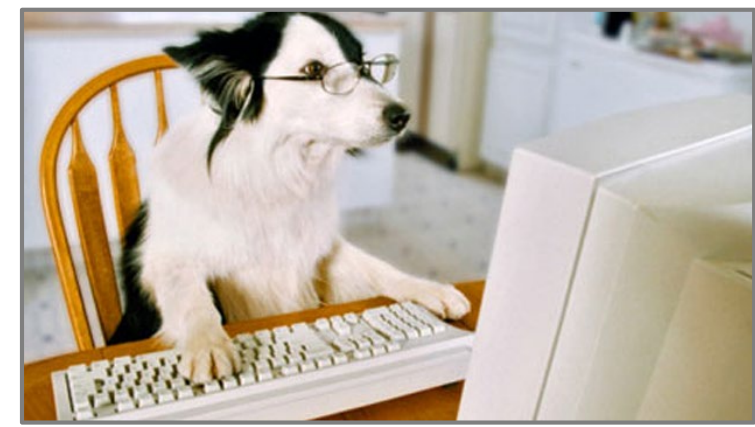
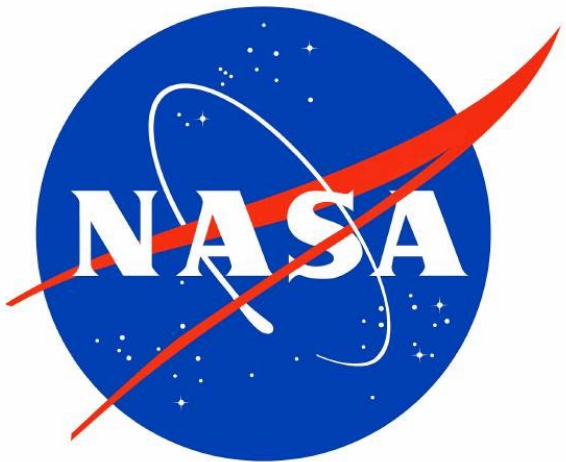
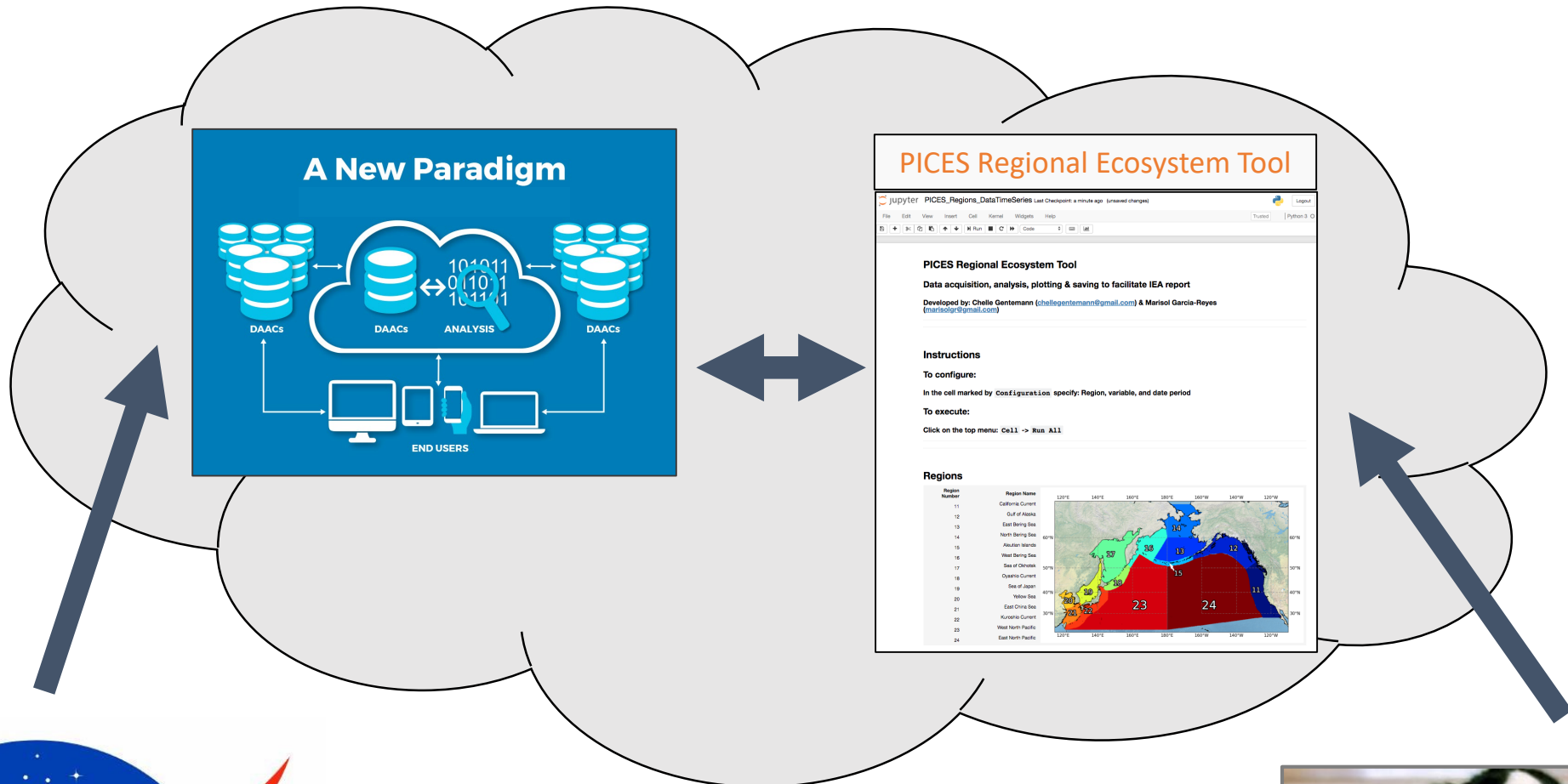
Data & Data sharing



Code Sharing

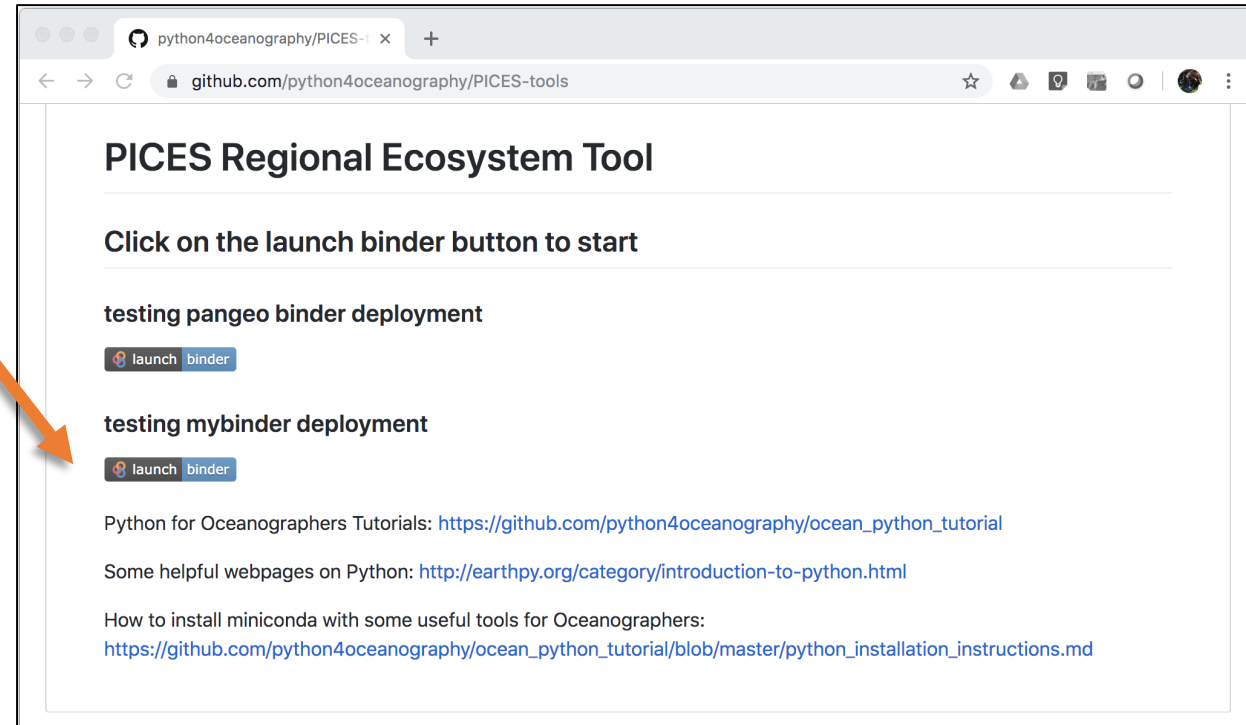


Cloud Computing

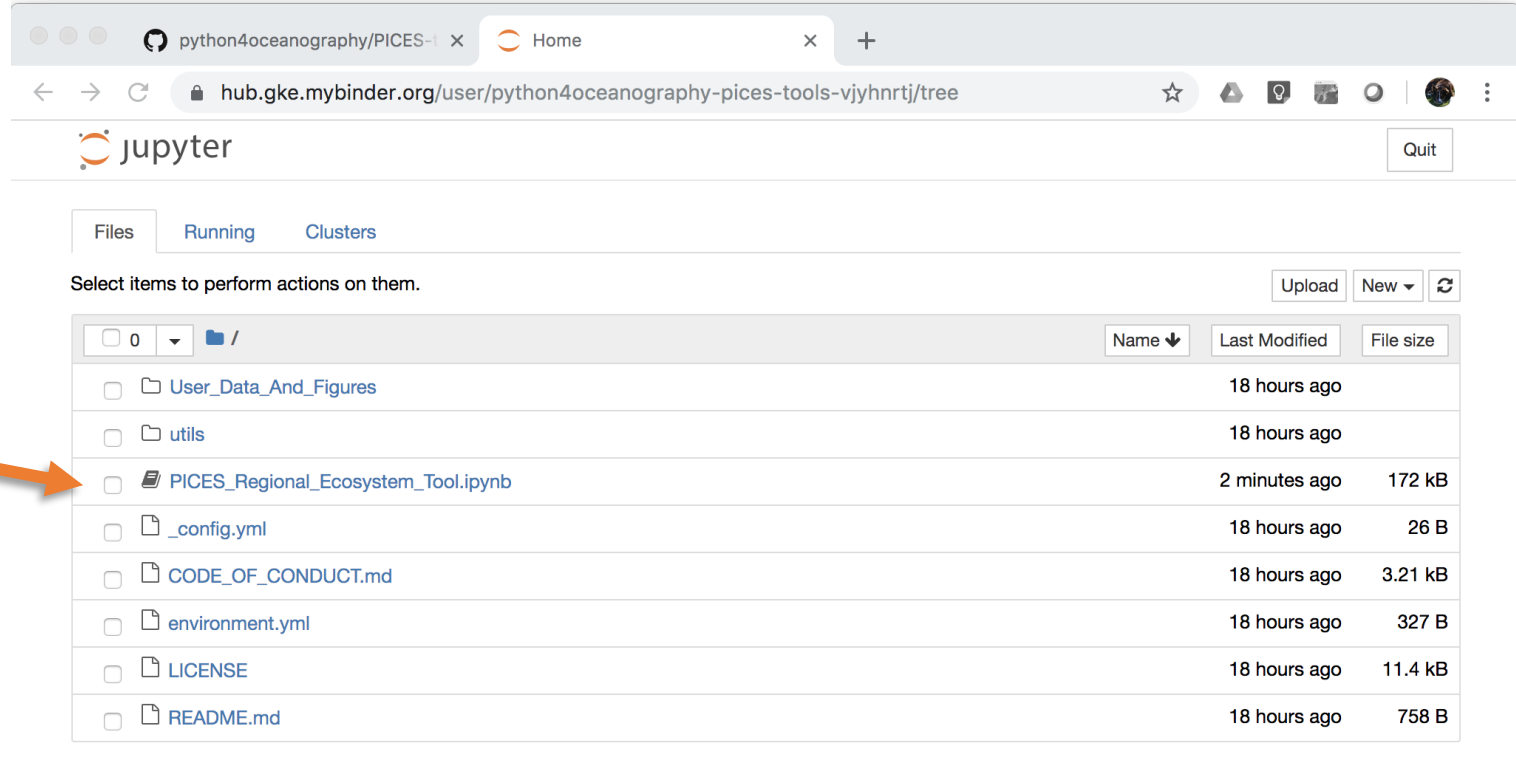
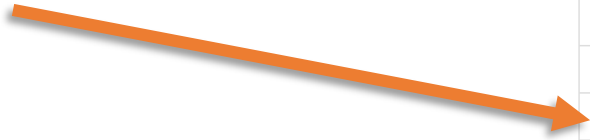


How to access the PICES RET

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



Click on:
PICES_Regional_Ecosystem_Tool



The screenshot shows a web browser window with the URL `hub.gke.mybinder.org/user/python4oceanography-pices-tools-vjyhnrjtj/tree`. The JupyterLab interface is visible, with the 'Files' tab selected. A table lists the following items:

	Name	Last Modified	File size
<input type="checkbox"/>	0		
<input type="checkbox"/>	Folder		
<input type="checkbox"/>	User_Data_And_Figures	18 hours ago	
<input type="checkbox"/>	utils	18 hours ago	
<input type="checkbox"/>	PICES_Regional_Ecosystem_Tool.ipynb	2 minutes ago	172 kB
<input type="checkbox"/>	_config.yml	18 hours ago	26 B
<input type="checkbox"/>	CODE_OF_CONDUCT.md	18 hours ago	3.21 kB
<input type="checkbox"/>	environment.yml	18 hours ago	327 B
<input type="checkbox"/>	LICENSE	18 hours ago	11.4 kB
<input type="checkbox"/>	README.md	18 hours ago	758 B

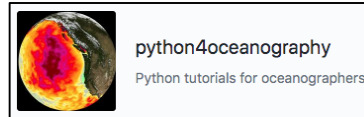
You could also download (clone) it from GitHub directly



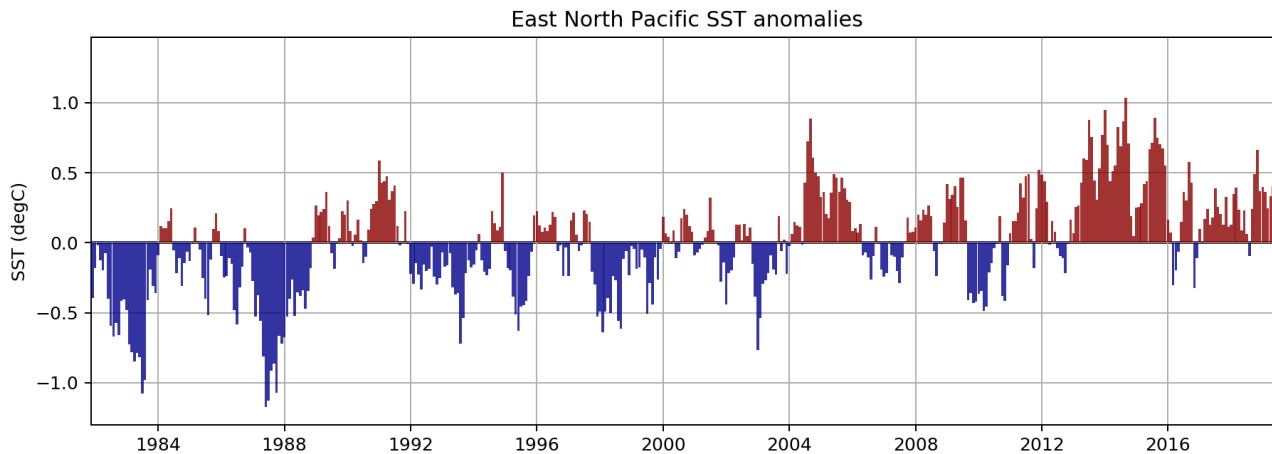
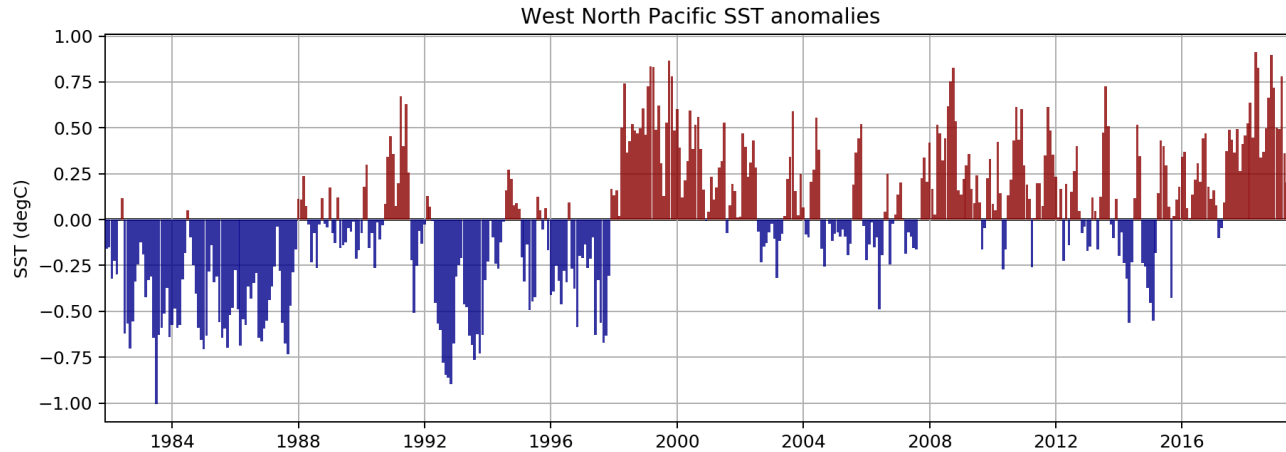
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demo

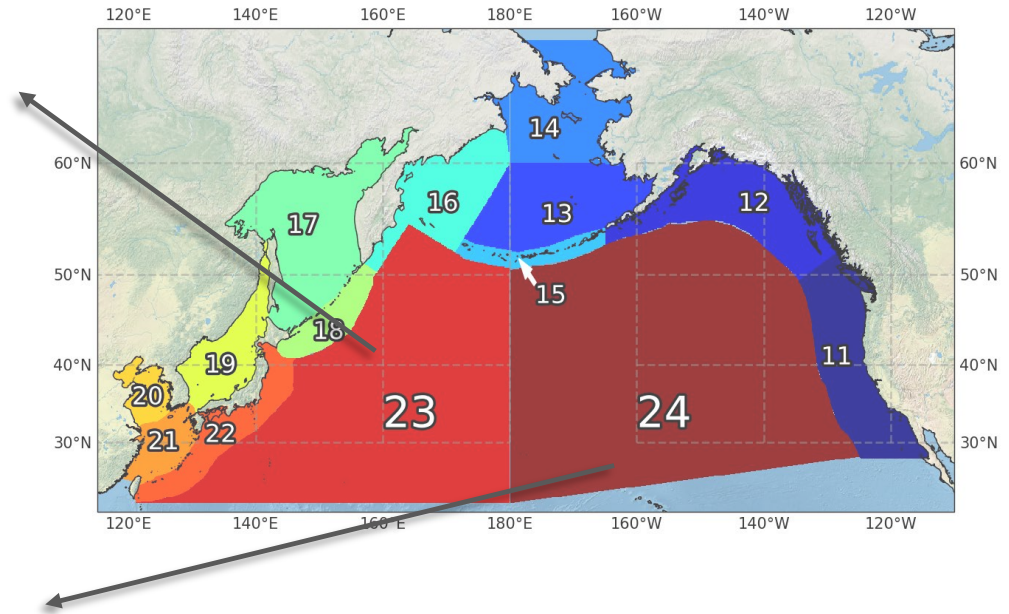
<https://github.com/python4oceanography/PICES-tools>



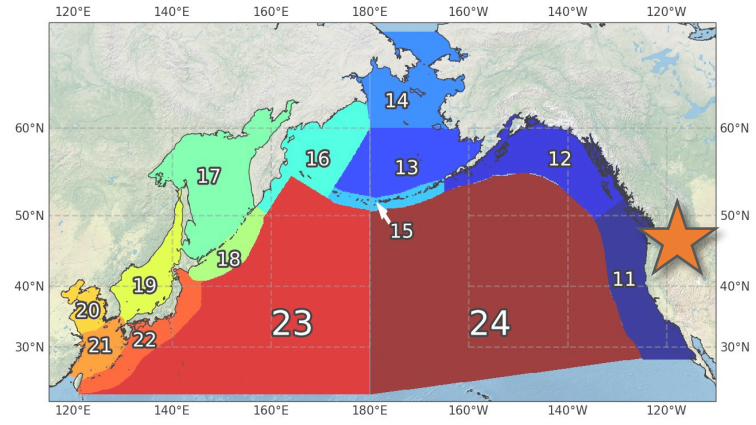
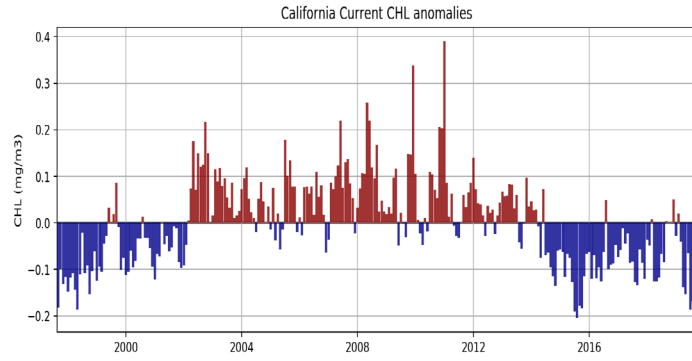
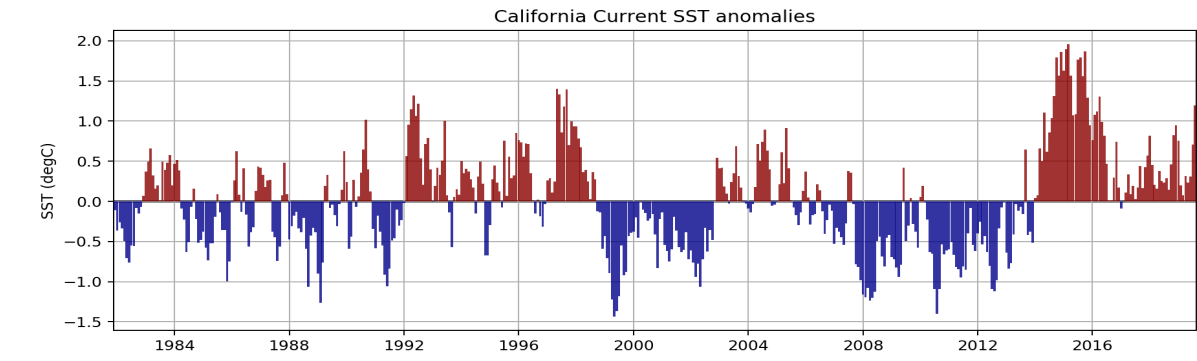
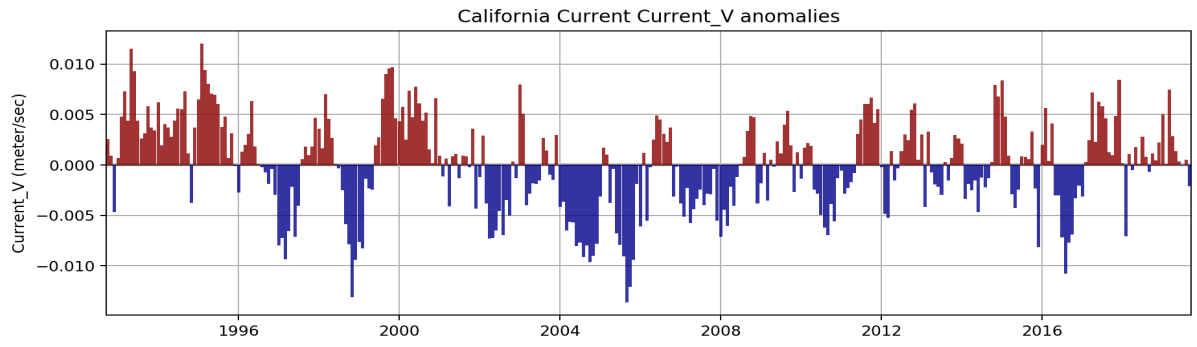
Comparison among regions



Sea Surface Temperature



Comparison of Data



Meridional Surface Current

Sea Surface Temperature

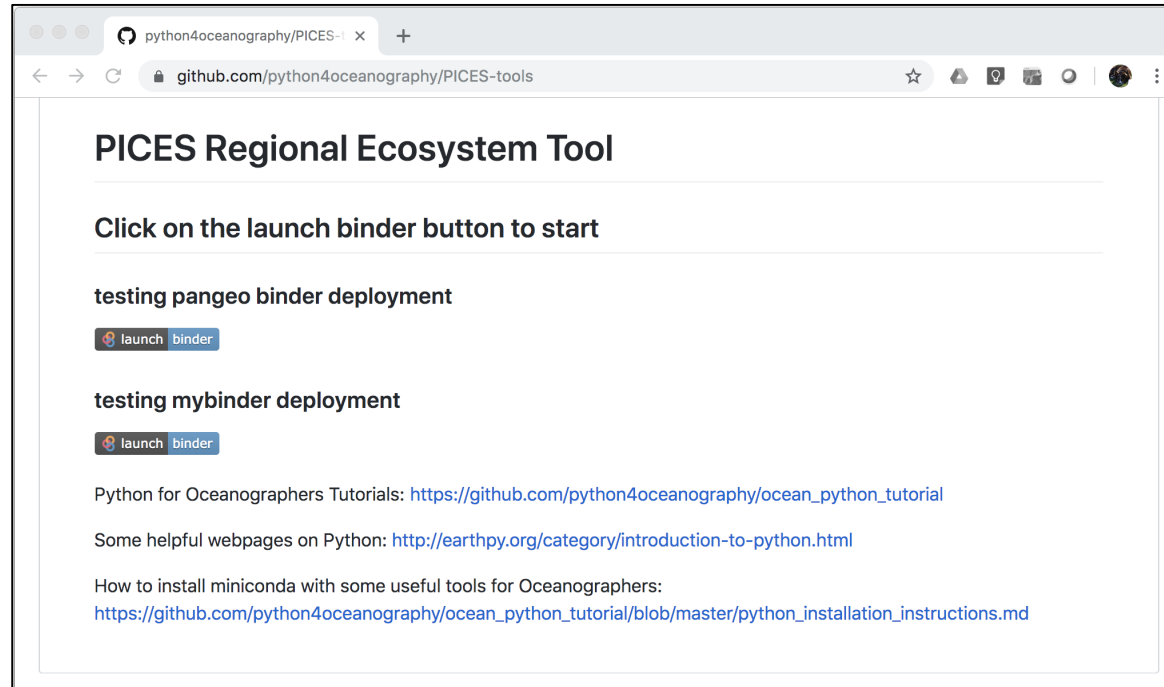
Chlorophyll Concentration



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From your web browser:

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



You could also download (clone) it from GitHub directly

Marisol García-Reyes <marisolgr@gmail.com>