

Outline

- Background
- Metadata Standards
- Use Cases
- Upcoming Milestones



U.S. IOOS Overview

U.S. IOOS is a cooperative, coordinated network of federal and non-federal observing networks since 2009, consisting of:

Global Component

- US contribution to Global Ocean Observing System (GOOS)
- 1 of 15 Regional Alliances of GOOS







National Component

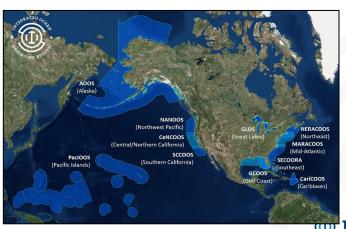
17 Federal agencies



Regional Component

- 11 Regional Associations
 - Stakeholder driven
 - Academia, state/local/tribal government, private industry





IOOS EYES ON THE OCEAN

Background



 Python-based tool to check for community standard compliance of local or remote netCDF or CDL files

- First commit in September 2013
- Use as command-line tool or integrate into other software
- Install with conda or pip

```
pip install compliance-checker

conda install -c conda-forge compliance-checker
```



- Text, HTML, and JSON report outputs
- Web Version: https://compliance.ioos.us



https://github.com/ioos/compliance-checker







43 Forks

dards

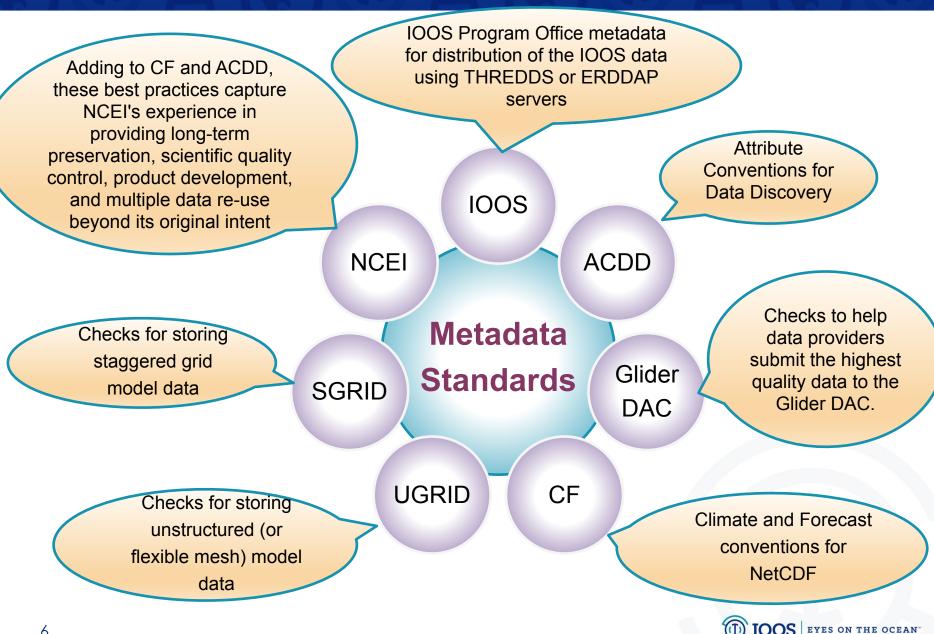
metadata

Command Line Interface (CLI)

Plugin 5

Available on package managers

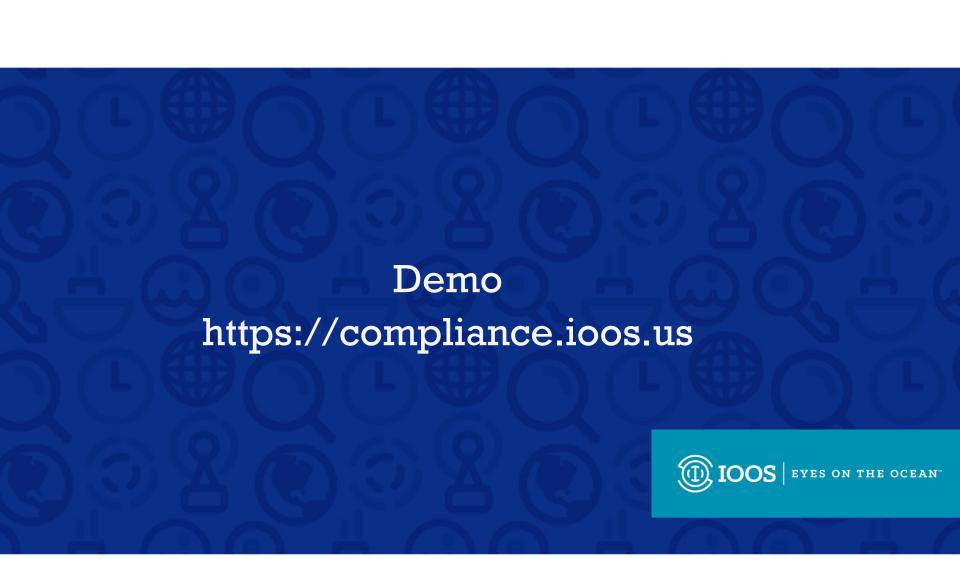




What's Next?

- CF 1.8 checker
- Additional plugin developments
 - * IOOS Profile Metadata
 - * Glider DAC
- Tighter integration with Web Version
 - * Automatically pull latest standard name table





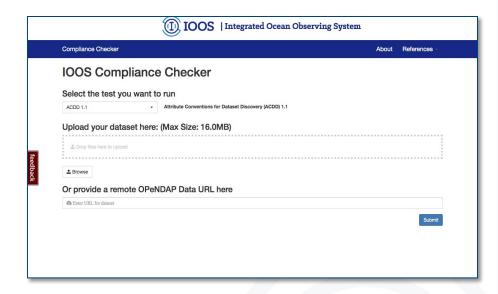
Compliance Checker Web

- Select Metadata Standard and Version
- CF 1.6 and 1.7 currently available
- Upload local netCDF or CDL file
 OR...
- Provide remote DAP URL
- View HTML report

Additional Features

- Download text report
- API

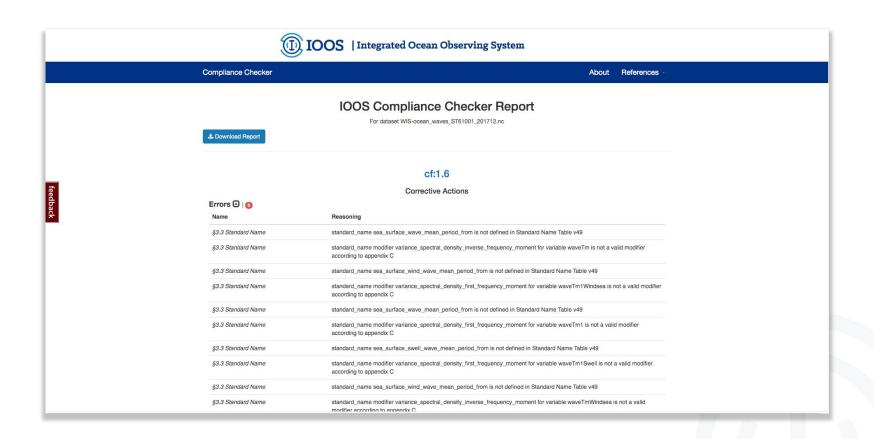
JSON -



https://compliance.ioos.us/api/run?report_format=json&test=acdd&url=http://sos.maracoos.org/stable/dodsC/hrecos/stationHRMARPH-agg.ncml



Compliance Checker Web





Use Cases (Who's Using It?)

NASA JPL podaac

(physical oceanography distributed active archive center)

https://podaac-tools.jpl.nasa.gov/mcc/

Using ACDD and CF checks

GDS2 (Group for High Resolution Sea Surface Temperature Data Spec, Version 2)

CEDA (Centre for Environmental Data Analysis)

https://github.com/ukcp-data/cc-plugin-ukcp18

UKCP18

- IOOS Glider Data Assembly Center
- IOOS data catalog
- Anyone else?

