IOOS COMPLIANCE CHECKE

Dave Foster // RPS ASA // 8 Apr 2014

GOALS

- Many types of compliance (not only CF)
- Universal (command line, importable, or web tool)
- Human AND machine understandable
- Comparable

CONCEPTS

- Checkers
- Scored with weight
- Tolerance for "passing"

SCORING

- Each check returns equivalent of pass/fail/partial pass
- Each return has a weight: HIGH/MEDIUM/LOW, REQUIRED/RECOMMENDED/OPTIONAL...
- Score is sum of passes*weight
- Grouping mechanism to keep scores same regardless of # of variable (comparable!)

DEVELOPER CONCEPTS

- Similar to UnitTests
- Flexible in Results
- Contributions should be simple
- Adaptable to many types of testing

CURRENT PROGRESS

Release: 0.1.0

github.com/ioos/compliance-checker

pypi.python.org/pypi/compliance-checker/0.1

CURRENT STANDARDS

- ACDD 1.1
- IOOS Asset Concept
- CF 1.6 (in development)

CURRENT SOURCES

- Local .nc files
- OPeNDAP data URLs
- SOS URLs (GetCapabilities, DescribeSensor)

UPCOMING

- Finish CF checker
- More output options (JSON/HTML)
- Internal Refactors

HOW TO USE

pip install compliance-checker

$ compliance-checker -v --test=acdd path/to
/dataset.nc

WEB DEMO

Dev Prototype