

The World Ocean Database as Dissemination Tool for IQuOD

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Outline

The World Ocean Database (WOD) in IQuOD – the plan

Where we are now: IQuOD Uncertainties in WOD

Where we are now: IQuOD Intelligent Metadata in WOD

Where we are now: IQuOD Automatic/Manual Quality Control in WOD

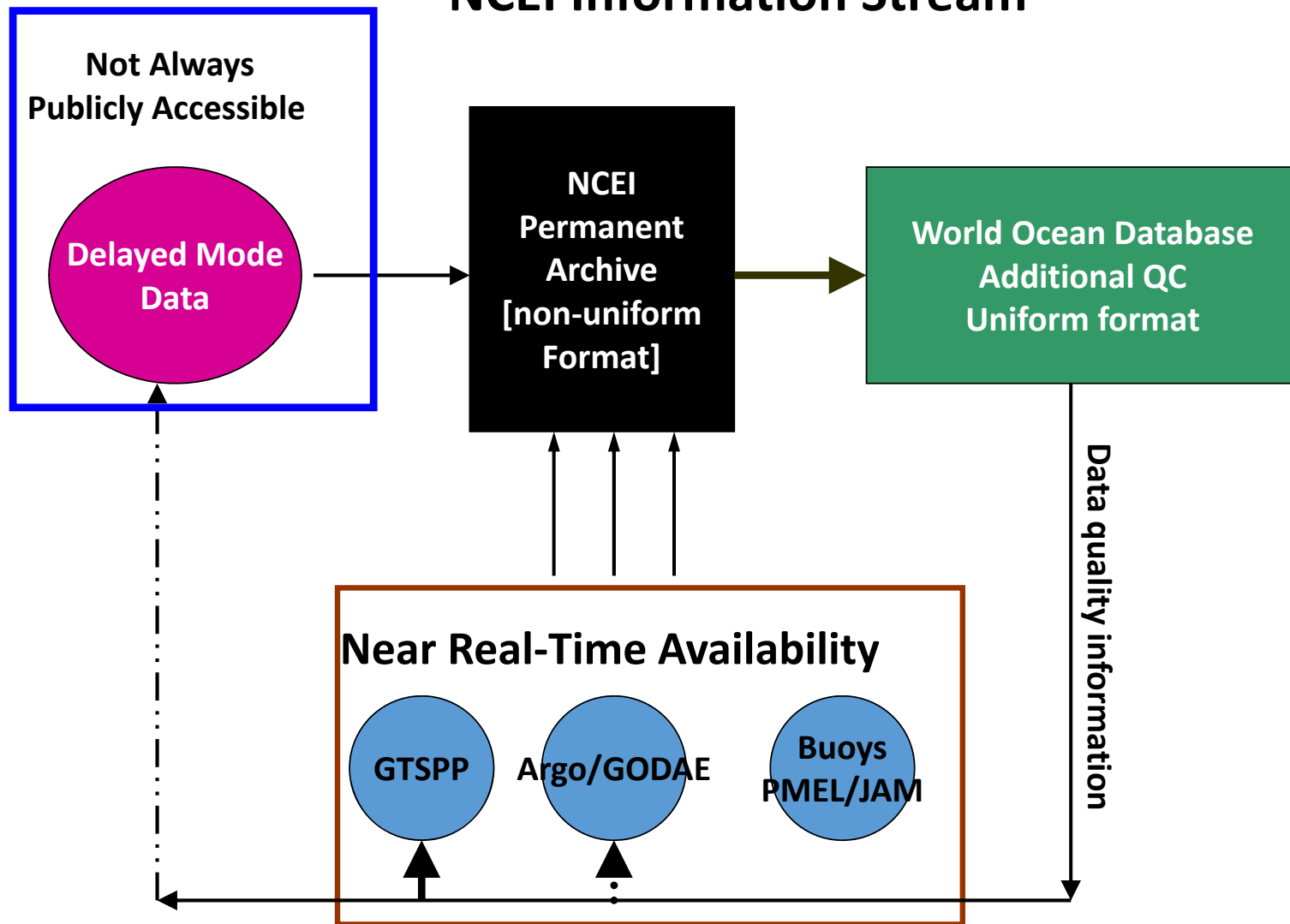
Where we are now: IQuOD format in WOD

Where we are now: data rescue in WOD

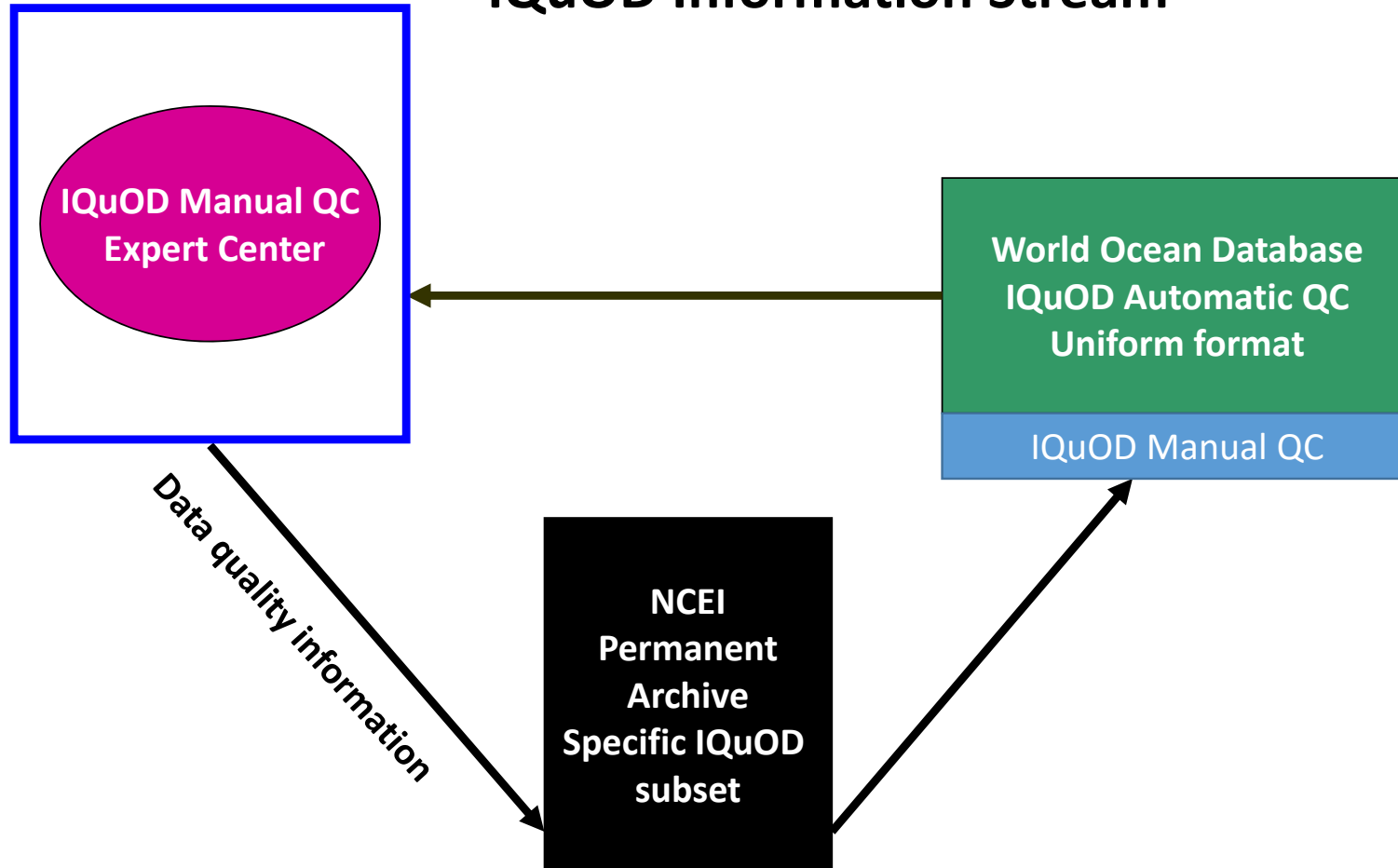
Where we go in the near future: IQuOD v0.1

Where we go after that

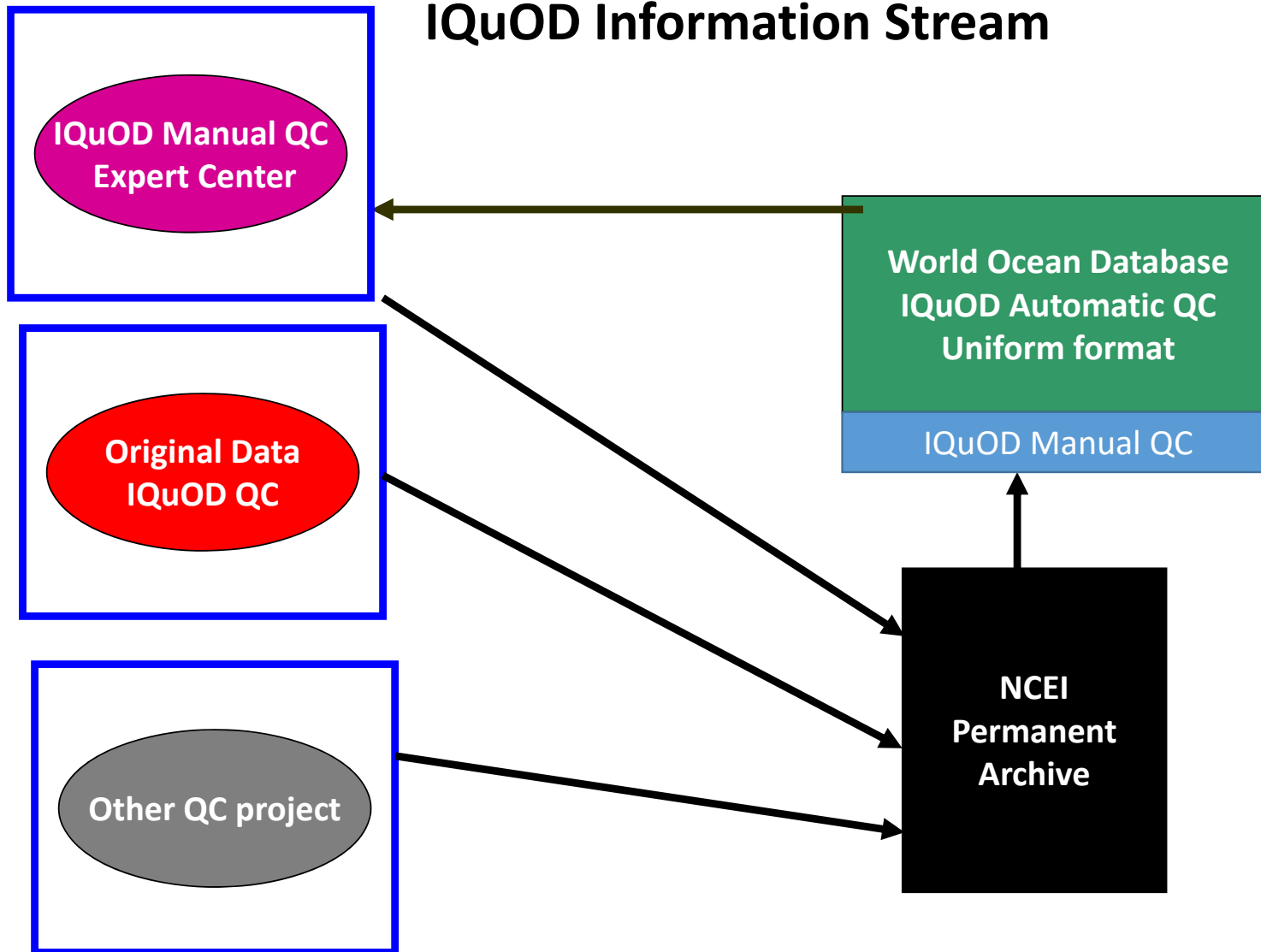
NCEI Information Stream



IQuOD Information Stream



IQuOD Information Stream



NODC Intranet WODselect

https://test.nodc.noaa.gov/cgi-bin/OC5/SELECT/dbextract.pl

BACK TO BUILD a new query


DOWNLOAD DATA:

1. CHOOSE FORMAT

- WOD native ASCII format**
Ocean Data View supports WOD native format
- [output example](#)
- [downloading and reading instructions](#)
- Comma Delimited Value (CSV) format**
Ocean Data View does not support csv format
- [output example](#)
- [downloading and reading instructions](#)
- netCDF format**
 - single cast [*more info](#)
 - ragged array [*more info](#)
Available on observed levels only.
Direct comments and questions to OCL.help@noaa.gov
- Data from each selected instrument in separate file
- Data from all selected instruments together
- Standard output [*CSV output definitions](#)
- 2007 Excel rows limit
- Older Excel rows limit

2. CHOOSE DEPTH LEVEL

- Observed level data** - [definition](#)
- Standard level data** - [definition](#)

3.  CHOOSE IQOD FLAGS

- IQOD flags + uncertainties and some additional metadata** - [definition](#)

4. CHOOSE XBT/MBT corrections (not applicable for single cast netCDF format)
[Info on XBT bias corrections](#)

No corrections ▼

**IQOD data
delivery
through
WODselect**

Intelligent Metadata in WOD: Communicating IQuOD information

#variable	code	value	modifier	value									
	instrumer	208	instrumer	2	depthmax	362	date_end	19720324					
	instrumer	211	instrumer	2	depthmax	362	date_start	19720324					
	instrumer	208	instrumer	2	depthmin	362	depthmax	569					
	instrumer	207	instrumer	2	depthmin	569	depthmax	982	date_end	19810420			
	instrumer	214	instrumer	2	depthmin	569	depthmax	982	date_start	19810420			
	instrumer	213	instrumer	2	depthmin	982	depthmax	1292	date_end	19810420			
	instrumer	210	instrumer	2	depthmin	982	depthmax	1292	date_start	19810420			
	instrumer	210	instrumer	2	depthmin	1292							
	instrumer	216	instrumer	2	country	JP CN KR	depthmax	362	date_end	19790101			
	instrumer	220	instrumer	2	country	JP CN KR	depthmax	362	date_start	19790101			
	instrumer	216	instrumer	2	country	JP CN KR	depthmin	362	depthmax	569	date_start	19720701	
	instrumer	219	instrumer	2	country	JP CN KR	depthmin	362	depthmax	569	date_end	19720701	
	instrumer	217	instrumer	2	country	JP CN KR	depthmin	569	depthmax	982			
	instrumer	219	instrumer	2	country	JP CN KR	depthmin	982					
temperatu	calibrated	1	project	225	instrumer	4							

Automatic/Manual Quality Control

- **At the moment, no IQuOD flags in WOD – no manual qc yet, no automatic**
- **When downloading data from WOD – WOD flags + originator flags**
- **Eventually when choosing IQuOD, user will receive IQuOD flags, either two tiered (good/maybe/bad + reason for choice) or IQuOD + originator**

IQuOD format in WOD

IQuOD uncertainties and intelligent metadata in WOD ASCII version (as of two weeks ago). Github automatic qc routines use this format.

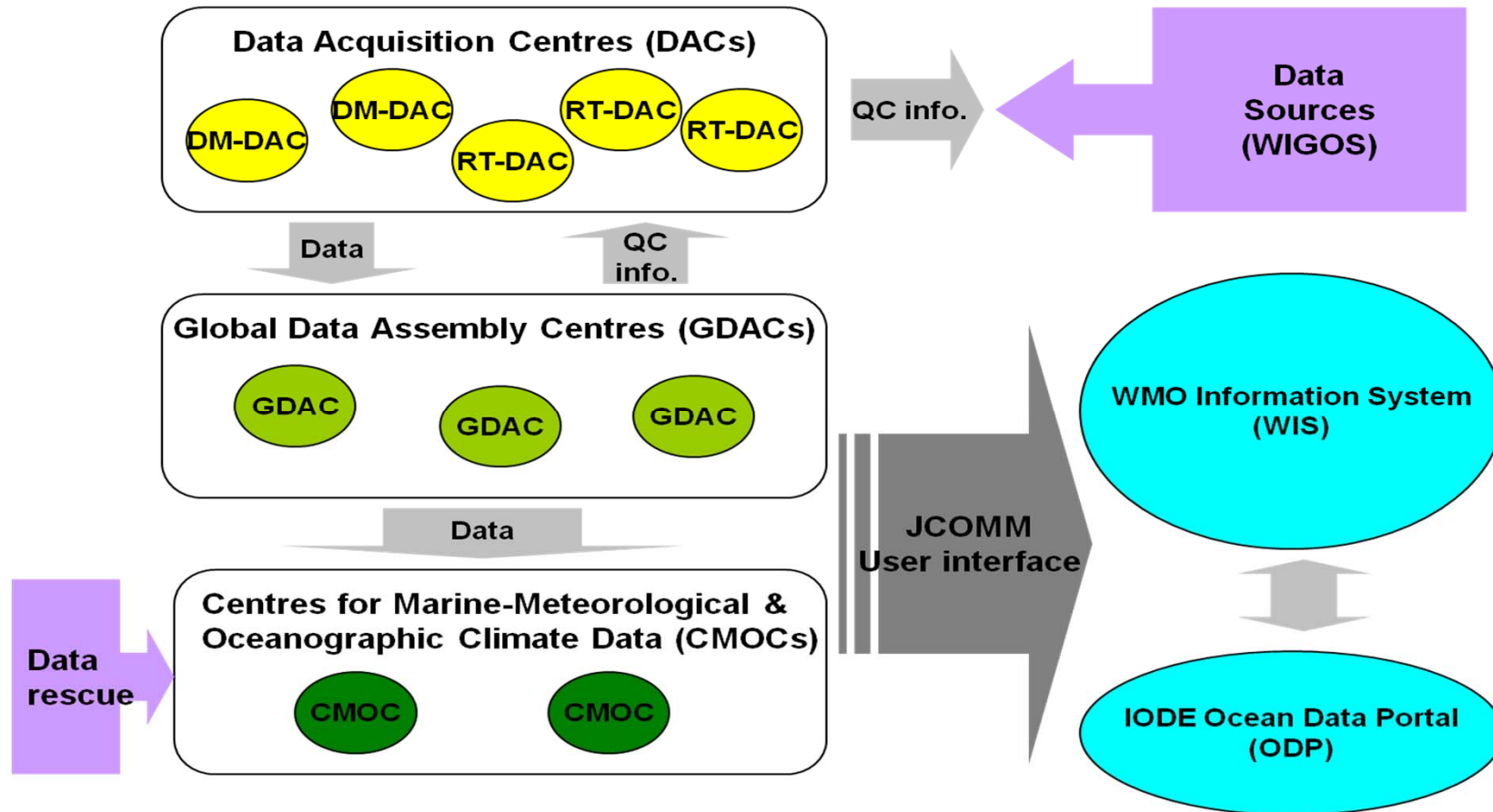
Question: keep original metadata value (even if 'unknown'), note that a value is intelligent metadata, or nothing

Ragged array netCDF format now available in WODselect: ability to aggregate many casts with multiple profiles in a compact format. CF compliant but not yet generally readable in software (e.g. ERDDAP)

WOD csv format will also be IQuOD ready soon

Routines for converting, in particular to a single line csv form

10-year vision per Rec. 2 (JCOMM-4) for New Marine Climate Data System (MCDS)



IQuOD version 0.1

WODselect is ready to go with IQuOD v0.1

Need first version of uncertainties

Need first version of intelligent metadata

In addition to WODselect, a version will be archived in netCDF ragged array separated by year/instrument

Setup of webpage?

Setup of information files within/without WODselect?

Announcement in some manner at AGU Fall meeting (December)?

Mid to long-term plans for WOD and for IQuOD?

Open for Discussion