



# UK-SOLAS Data Management: Discovery cruise 330



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[\*\*http://www.bodc.ac.uk/projects/uk/uksolas/\*\*](http://www.bodc.ac.uk/projects/uk/uksolas/)



# UK SOLAS Data Management staff at BODC

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Main contact for data issues:

Jenny Andrew

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cc. emails to [gmon@bodc.ac.uk](mailto:gmon@bodc.ac.uk)



# What and how to submit data



UK-SOLAS Data Management at BODC



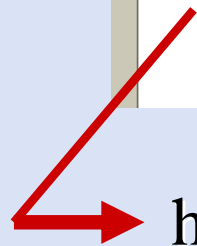
## Information required from all cruise participants when submitting data

The UK SOLAS Data Centre undertakes the safeguarding and distribution of UK SOLAS data, during the lifetime of the programme and into the future. Our data management procedures help to ensure that the UK SOLAS data set meets the highest standard.

When data analysis has been completed, please send a copy of each data set to Gwen Moncoiffé or Jenny Andrew, the UK SOLAS Data Management team at BODC by email ([gmon@bodc.ac.uk](mailto:gmon@bodc.ac.uk), [jedr@bodc.ac.uk](mailto:jedr@bodc.ac.uk)), or on CD-ROM or DVD by post to:

ATTN Drs Gwen Moncoiffé or Jenny Andrew  
British Oceanographic Data Centre  
Joseph Proudman Building  
6 Brownlow Street  
Liverpool L3 5DA

Submission should take place within six months of the end of fieldwork unless other time-scales have been agreed with the UK SOLAS data management team.



<http://web.pml.ac.uk/solas/icon/logistics/logistics.htm>



# UK SOLAS Data Policy – IP protection

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## Studentships

Data central to a student's study will be restricted access for the duration of the studentship – unless release agreed between the SDC, the Science Coordinator and student's supervisor.

## Publication

Anyone publishing work which makes further use of UK SOLAS data within 3 years of the data being acquired by the SDC will automatically be required to include the data originator(s) as co-authors.

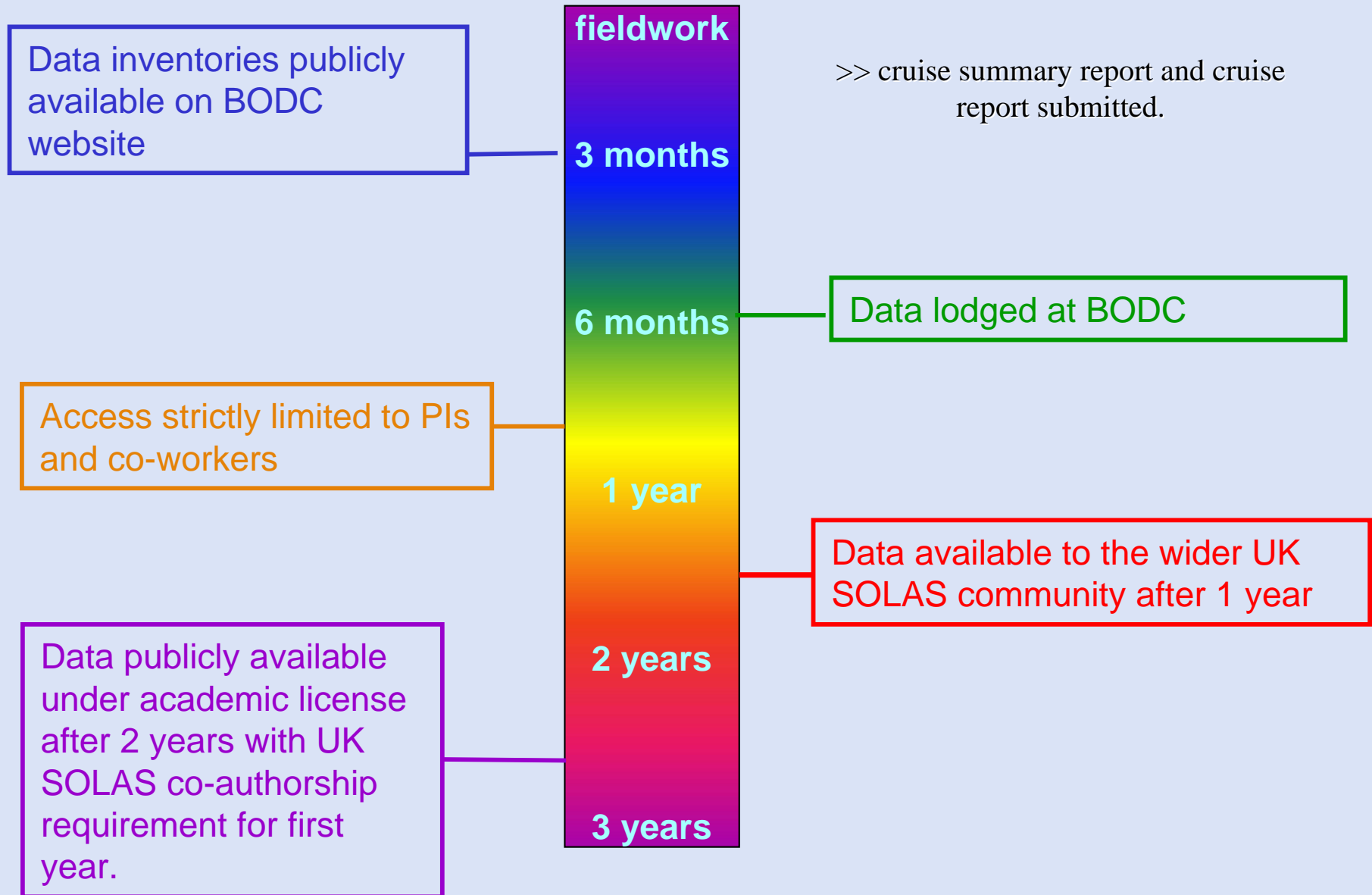
## Restricted access

No data will be transferred to outside parties without the explicit agreement of the data originator.

Major data transfer will only take place if agreed by the Science Coordinator and Steering Committee.



# Data Policy – time-scales





# How do we control all this?

- Request log
  - \* Name and details of enquirer,
  - \* Date data was requested,
  - \* Date data was provided,
  - \* Details of what was provided
  - \* Copy of signed license.
- During restricted access period
  - contact the originators if an external request is made.
- Data inventories
  - \* Name of dataset,
  - \* Name and affiliation of originators,
  - \* Date data are expected, submitted, and banked.



# Station and sampling logs guidelines

## 1- Central scientific stations and events log

- For CTD profiles and rosette sampling, MVP, FRRF, optics rig, drifting buoy, XBT release, and any other gear deployment (i.e. bucket sampling, rubber boat)
- Identifier, gear, date, accurate time in water, accurate time on board, lat, lon, and water column depth if available, plus comments

## 2- Surface water sampling from non-toxic supply

- Preferably one log for all samples collected from the non-toxic
- Sample identifier, sampling date and accurate time, lat, lon, wdepth if available, what is the sample for, who is the sample for, comments



## Station and sampling logs guidelines (continue)

### 3- Atmospheric sampling log (gas, rainwater, aerosols)

- Sample identifier, sampling gear, filter types?, sampling start and end date and time, sampling height above water, what is the sample for, who is the sample for, comments

### 4- Incubation experiments and sampling events log(s)

- Recommend keeping sampling logs for incubation systems
- Experiment ID, Source of water samples with full sample identification (station+cast ID, bottle/sample ID and depth - combine sample identifier for pooled samples), incubation start time, incubated sample ID (if necessary to distinguish between treatments), incubation conditions, sample perturbation/treatment, sub-sampling times, parameters to be measured and person responsible.



## On-board data management issues

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- Time on board: local time or GMT? Needs to be consistent throughout
- If titanium and stainless steel CTD frames are used: naming convention needs to help distinguish between the two (as used for example during AMT16)
- If both cast ID and geographical “station” or site ID are used then both identifiers should ideally be used in the cast or sample name
- Avoid ‘/’ to separate two numbers (use “\_” or “#” instead)
- All sensors deployed on CTD frame need to be included in the CTD data processing
- Check regularly that underway instrumentation is working correctly



## Some do and don't for stations and sample identification

- Write sample date and time accurately (use ship's master clock)
- Write sample depth accurately (in m or db)
- For CTD rosette sampling, always provide data alongside their rosette position numbers and NISKIN bottle numbers (if different)
- Log lat, lon and water column depth in scientific log (to help as a back up if something goes wrong)
- Beware of typos when copying handwritten information into digital format
- Keep the original handwritten log – send a photocopied or scanned version to BODC if necessary.



# Submitting data to us

## Accessible format

- ASCII or standard spreadsheet files
- TIF or any other standard image data files
- binary files acceptable providing they are accompanied by a clear format specification
- no PDF

## Documented and clearly labelled

- sampling and method description clearly explained
- abbreviations, units and quality control symbols and methodology clearly defined
- formula used to generate derived data should be provided and primary data should be included in the file

## Referenced

- every measurement value should be referred back to a water sample with reference to a station/cast number/name or accurate date and time, and depth or bottle reference
- latitude and longitude may be provided but not required. We would only use it to cross-check information in case of disagreement



## Example for data from CTD rosette sampling

Cruise	Station/ cast ref	Depth (m)	Rosette position number	Niskin bottle number <b>if different</b>	Param 1 (unit)	Param 2 (unit)	etc.
D330	CTD001s	4.9					
D330	CTD001s	11.6					
D330	CTD002t	5.5					
D330	CTD002t	503.6					



# Examples for data from ship's non-toxic water supply

Accurate date/time (GMT)	(originator sample ref ID)	Param 1 (unit)	Param 2 (unit)	etc.
01/01/2001 00:01	xxx_xxx_001			
01/01/2001 04:04	xxx_xxx_002			
01/01/2001 07:59	xxx_xxx_003			

