Variability estimates from R/V Columbus IronEx I cruise in he Equatorial Pacific Ocean in 1993 (IronEx I project)

Website: https://www.bco-dmo.org/dataset/3158 Version: 10June2009 Version Date: 2009-06-10

Project

» Iron Experiment I (IronExI)

Program

» Iron Synthesis (FeSynth)

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Table of Contents

- Dataset Description
 - Data Processing Description
- Data Files
- Parameters
- Deployments
- <u>Project Information</u>
- Program Information
- Funding

Dataset Description

IronExI - Variability estimates Inside/Outside the patch

Data Processing Description

BCO-DMO Processing Notes

Variability estimates data were culled out of the original FeX 1 CTD,Nuts,SF6.xls file and a separate dataset was generated. Original file was downloaded on 16June2008 from <u>http://www.mbari.org/sofex/IronEx_I.htm</u>

BCO-DMO Edits

- Station, event, date, time, lat, lon. depth and Patch (in/Out) were from the station list
- Parameter names modified to conform to BCO-DMO convention

[table of contents | back to top]

Data Files

File

Variability_Est.csv(Comma Separated Values (.csv), 2.75 KB) MD5:3a47d3f856b804e97cb5480da097d883

Primary data file for dataset ID 3158

[table of contents | back to top]

Parameters

Parameter	Description	Units
date	Date UTC	YYYYMMDD
time	Time UTC	ннмм
lat	latitude, negative denotes South	decimal degrees
lon	longitude, negative denotes West	decimal degrees
event	Unique event number (Generated by BCO-DMO)	YYYYDAYHHMM
Patch	Patch In/Out Flag Refers to sampling in ("I") or out ("O") of the established Iron enrichedpatch, based on SF6 measurements	text
orig_event_number	Event number from original log file Preserved for reference	YYYY_DDD
Station	Station id	text
depth	Sample depth in meters	meters
comments	Comments field	text
Var1	Variability estimate 1	(tbd)
Var2	Variability estimate 2	(tbd)

[table of contents | back to top]

Deployments

CI_IronExI

Website	https://www.bco-dmo.org/deployment/57829	
Platform	R/V Columbus Iselin	
Start Date	1993-10-11	
End Date	1993-11-07	

[table of contents | back to top]

Project Information

Iron Experiment I (IronExI)

Coverage: Equatorial Pacific Ocean

One of two (see IronExII May/June 1995) small scale iron fertilization experiments conducted in the Equatorial Pacific Ocean.

Program Information

Iron Synthesis (FeSynth)

Coverage: Global

The two main objectives of the Iron Synthesis program (SCOR Working Group proposal, 2005), are: 1. Data compilation: assembling a common open-access database of the *in situ* iron experiments, beginning with the first period (1993-2002; Ironex-1, Ironex-2, SOIREE, EisenEx, SEEDS-1; SOFeX, SERIES) where primary articles have already been published, to be followed by the 2004 experiments where primary articles are now in progress (EIFEX, SEEDS-2; SAGE, FeeP); similarly for the natural fertilizations S.O.JGOFS (1992), CROZEX (2004/2005) and KEOPS (2005).

2. Modeling and data synthesis of specific aspects of two or more such experiments for various topics such as physical mixing, phytoplankton productivity, overall ecosystem functioning, iron chemistry, CO2 budgeting, nutrient uptake ratios, DMS(P) processes, and combinations of these variables and processes.

SCOR Working Group proposal, 2005. "The Legacy of *in situ* Iron Enrichments: Data Compilation and Modeling".

http://www.scor-int.org/Working_Groups/wg131.htm

See also: SCOR Proceedings Vol. 42 Concepcion, Chile October 2006, pgs: 13-16 2.3.3 Working Group on The Legacy of *in situ* Iron Enrichments: Data Compilation and Modeling.

The first objective of the Iron Synthesis program involves a data recovery effort aimed at assembling a common, open-access database of data and metadata from a series of *in-situ* ocean iron fertilization experiments conducted between 1993 and 2005. Initially, funding for this effort is being provided by the Scientific Committee on Oceanic Research (SCOR) and the U.S. National Science Foundation (NSF).

Through the combined efforts of the principal investigators of the individual projects and the staff of Biological and Chemical Oceanography Data Management Office (BCO-DMO), data currently available primarily through individuals, disparate reports and data agencies, and in multiple formats, are being collected and prepared for addition to the BCO-DMO database from which they will be freely available to the community.

As data are contributed to the BCO-DMO office, they are organized into four overlapping categories: 1. Level 1, basic metadata

(e.g., description of project/study, general location, PI(s), participants);

2. Level 2, detailed metadata and basic shipboard data and routine ship's operations

(e.g., CTDs, underway measurements, sampling event logs);

3. Level 3, detailed metadata and data from specialized observations

(e.g., discrete observations, experimental results, rate measurements) and

4. Level 4, remaining datasets

(e.g., highest level of detailed data available from each study).

Collaboration with BCO-DMO staff began in March of 2008 and initial efforts have been directed toward basic project descriptions, levels 1 and 2 metadata and basic data, with detailed and more detailed data files being incorporated as they become available and are processed.

Related file

Program Documentation

The Iron Synthesis Program is funded jointly by the Scientific Committee on Oceanic Research (SCOR) and the U.S. National Science Foundation (NSF).



[table of contents | back to top]

Funding

Funding Source	Award
NSF Division of Ocean Sciences (NSF OCE)	<u>OCE-9217518</u>
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[table of contents | back to top]