Station List from R/V Columbus Iselin IronEx I cruise in the Equatorial Pacific Ocean in 1993 (IronEx I project)

Website: https://www.bco-dmo.org/dataset/3133
Version: 10June2009
Version Date: 2009-06-10

Project
» Iron Experiment I (IronExI)

Program
» Iron Synthesis (FeSynth)

Contributors	Affiliation	Role
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Table of Contents

- Dataset Description
  - Data Processing Description
- Data Files
- Parameters
- Deployments
- Project Information
- Program Information
- Funding

Dataset Description

IronExI - Station List

Data Processing Description

BCO-DMO Processing Notes
Generated from original spreadsheet "FeX1 Edited log.xls
Original file was downloaded on 16June2008 from http://www.mbari.org/sofex/IronEx_I.htm

BCO-DMO Processing Notes/Edits
- Parameter headers edited to conform to BCO-DMO convention
- Event generated from YearDayTime
- Original event# preserved as orig_event_number
- Date reformatted to YYYYMMDD
- Time reformatted to HHMM
- Lat/Lon converted to decimal degrees
- In/Out changed to Patch (In/Out of Patch)
- nd added for no data values and blank fields

[table of contents | back to top]

Data Files

File
Station_List.csv (Comma Separated Values (.csv), 11.41 KB) MD5:912c642a00bddd11e5c35f48dddb2323 Primary data file for dataset ID 3133

[table of contents | back to top]

Parameters

Parameter	Description	Units
date	Date UTC	YYYYMMDD
time	Time UTC	HHMM
lat	latitude, negative denotes South	decimal degrees
lon	longitude, negative denotes West	decimal degrees
event	Unique event number (Generated by BCO-DMO)	YYYYDAYHHMM
activities_and_comments	free field text description of event	text
yrday	Day of year	integer
Patch	Patch In/Out Flag Refers to sampling in ("I") or out ("O") of the established Iron enriched patch, based on SF6 measurements	text
orig_event_number	Event number from original log file Preserved for reference	YYYY_DDD
Station	Station id	text

[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.

[table of contents | back to top]

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)	OCE-9217518
Office of Naval Research (ONR)	N00014-94-10125

[table of contents | back to top]