

Cruise track position data from R/V Polarstern cruise ANT-XXI-3 from the Southern Ocean, Atlantic Sector; 2003-2006 (EIFEX project)

Website: <https://www.bco-dmo.org/dataset/3464>

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Project

» [European Iron Fertilization Experiment](#) (EIFEX)

Program

» [Iron Synthesis](#) (FeSynth)

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Table of Contents

- [Dataset Description](#)
 - [Methods & Sampling](#)
 - [Data Processing Description](#)
- [Data Files](#)
- [Parameters](#)
- [Deployments](#)
- [Project Information](#)
- [Program Information](#)

Dataset Description

EIFEX cruise track from continuous surface meteorology data

Date, Time, Lat, Lon

10 minute fixes

Methods & Sampling

Generated by BCO-DMO staff from file: ANT-XXI_3_cont_surf_meteorology.tab

Data Processing Description

Generated by BCO-DMO staff from file: ANT-XXI_3_cont_surf_meteorology.tab

[[table of contents](#) | [back to top](#)]

Data Files

File
CruiseTrack.csv (Comma Separated Values (.csv), 268.76 KB) MD5:e05751279d46c8224f99e1f0e598a360
Primary data file for dataset ID 3464

[[table of contents](#) | [back to top](#)]

Parameters

Parameter	Description	Units
date	date (GMT)	YYYYMMDD
time	time (GMT)	HHMM
lon	Station longitude (West is negative)	decimal degrees
lat	Station latitude (South is negative)	decimal degrees

[[table of contents](#) | [back to top](#)]

Deployments

ANT-XXI-3

Website	https://www.bco-dmo.org/deployment/57839
Platform	R/V Polarstern
Report	http://epic.awi.de/26679/1/BerPolarforsch2005500.pdf
Start Date	2004-01-21
End Date	2004-03-24
Description	Expeditions ANTARKTIS XXI/3 of the Research Vessel Polarstern in 2004 (Die Expeditionen ANTARKTIS XXI/3 des Forschungsschiffes Polarstern 2004)

[[table of contents](#) | [back to top](#)]

Project Information

European Iron Fertilization Experiment (EIFEX)

Coverage: Southern Ocean, Atlantic Sector

Followup cruise to EisenEX to Southern Ocean, Atlantic Sector

EIFEX project data have been published at PANGAEA, (Publishing Network for Geoscientific & Environmental Data).

See the [EIFEX data at PANGAEA](#)

[[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, SOREE, 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).

