

EIFEX continuous thermosalinography 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/2821>

Version: final

Project

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

Program

» [Iron Synthesis](#) (FeSynth)

Contributors	Affiliation	Role
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Dataset Description

EIFEX continuous thermosalinography

Data published at PANGAEA, Publishing Network for Geoscientific & Environmental Data

Methods & Sampling

Continuous thermosalinograph oceanography along cruise track ANT-XXI/3

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Parameters

Parameter	Description	Units
depth	depth of water	meters
latitude	latitude	
longitude	longitude	
date_time	date and time example: 2004-01-22T07:05	
sal	salinity from thermosalinograph	dimensionless
temp	temperature of seawater from thermosalinograph; ITS-90	degrees Celsius

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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)

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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](#)

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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).



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Funding

Funding Source	Award
Alfred Wegener Institute for Polar and Marine Research (AWI)	unknown EIFEX AWI

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