

Plan Overview

A Data Management Plan created using DMPTool

Title: Field investigation of the Legacy OCPs in the marine boundary from East Asia to the high Arctic

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Project abstract:

The investigation covered a large scale ocean transect: the sampling stations were from East Asia to the high Arctic, besides the atmosphere sampling stations were across the Arctic Ocean. Seven selected OCPs, including α -, β -, γ -, δ -HCH, p'p-DDT, p'p-DDE, p'p-DDD, were detected. HCHs and DDTs have been widely used and globally mass-produced and ubiquitously detected in the atmospheric, aquatic, and geologic systems with high ecological and health risks. These will give a new perspective to the understanding of the fate of HCHs and DDTs in the High Arctic regions.

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Field investigation of the Legacy OCPs in the marine boundary from East Asia to the high Arctic

Data Collection

What data will you collect or create?

1. Type of data: levels of legacy OCPs (4HCHs and 3DDTs) in the surface seawater and atmosphere;
2. Format of data: excel;
3. The volume of the data: <2Mb;
4. Formats and software enable sharing: No specific provision;
5. Access Availability of data: Long term open access to the journal editor, researchers, and graduate students; For research use of the data, author authorization is required. Any commercial use is prohibited.
6. Any Existing Data for reuse: the whole data;

How will the data be collected or created?

1. All the data are sampled onboard the Xuelong Vessel with the High-volume Solid-Phase extraction method coupled with the in situ internal ultrasonic method.
2. All the analysis of the sample was finished in the Ministry of Natural Resources Key Laboratory for Polar Sciences, Polar Research Institute of China and College of Environmental Science and Engineering, Tongji University.
3. All the data would be published publicly.
4. Files and folders were named by the target compound and expedition cruise numbers.
5. If there is any revision of the data, we would update it on the archive website on time.

Documentation and Metadata

What documentation and metadata will accompany the data?

1. Metadata of the sampling Information, levels of individual OCPs in surface seawater and

atmosphere; All the data is open access to the journal editor, researchers, and graduate students; Any commercial use is prohibited.

2. Reading data on the website would be available to anyone. however, any interpreted and research use of this data is requested for the author approved.

3. We create this documentation and metadata according to the Basic rules and laws of China;

Ethics and Legal Compliance

How will you manage any ethical issues?

1. We have gained consent for data preservation and sharing in the publishing process.
2. Anonymization IS NOT ACCEPT for the access of the data.
3. No sensitive data was involved.

How will you manage copyright and Intellectual Property Rights (IP/IPR) issues?

1. Dr. Hongyuan Zheng (College of Environmental Science and Engineering, Tongji University, 1239 Siping Road, Shanghai 200092, China) and Dr.Minghong Cai (Ministry of Natural Resources Key Laboratory for Polar Sciences, Polar Research Institute of China, 451 Jinqiao Road, Shanghai 200136, China) owns the data.
2. The author authorization is a request when the data is in reuse in a part or whole;
3. The author's authorization is a request if there any restrictions on the reuse of third-party data;
4. Data sharing should be postponed/restricted to publish.

Storage and Backup

How will the data be stored and backed up during the research?

1. Data would be backup in the Chinese National Arctic and Antarctic Data Center (CN-NADC) <http://www.chinare.org.cn/index/>;
2. Saved offline by the authors;
3. All the data will also be backup on the Biological & Chemical Oceanography Data Management

Office <https://www.bco-dmo.org/>;

4. Dr. Hongyuan Zheng (College of Environmental Science and Engineering, Tongji University, 1239 Siping Road, Shanghai 200092, China) and Dr. Minghong Cai (Ministry of Natural Resources Key Laboratory for Polar Sciences, Polar Research Institute of China, 451 Jinqiao Road, Shanghai 200136, China) are responsible for backup and recovery;

5. Sufficient storage already is done, and no charge for additional services. Any question would be welcomed by the data Owner;

6. Once the event and incident related to the data occur, we would recover the data from the backup;

How will you manage access and security?

1. All the data security could be done in the following days. If there are any problems, please contact the owners;

2. All the collaborators could have access to the metadata, and we should be responsible for any question related to the data;

3. All the use of the data requests author authorization. Any commercial use is prohibited. All the collaborators can give access to the data.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

1. Any or a whole part of the data for reuse should request author authorization;
2. E-mail to the owners is suggested;
3. Long-term for the data to be retained and preserved.

What is the long-term preservation plan for the dataset?

1. The Ministry of Natural Resources Key Laboratory for Polar Sciences, Polar Research Institute of China and College of Environmental Science and Engineering, Tongji University would be the holding place in the long-term;
2. All the data will also be backup on the Biological & Chemical Oceanography Data Management Office for long-term holding <https://www.bco-dmo.org/>;
3. Data sharing is free of charge;
4. We do not have a budget for time for the data sharing preservation;

Data Sharing

How will you share the data?

1. Journal Editor, researchers, and graduate students could find the data from the published Articles and open-access information;
2. Reading the data is available to anyone; Reuse of the data should be requested for author authorization;
3. We will share the data via a repository;
4. We will make the data available when the related articles are published;

Are any restrictions on data sharing required?

1. All the sharing and reuse of the data should be requested for author authorization, But sharing data to third-party would be free;
2. All the data should be the exclusive use by the owners for long-term;
3. Data sharing agreement (or equivalent) is required, but e-mail of the author authorization from the owners will also be okay;

Responsibilities and Resources

Who will be responsible for data management?

1. Dr. Hongyuan Zheng (College of Environmental Science and Engineering, Tongji University, 1239 Siping Road, Shanghai 200092, China) and Dr.Minghong Cai (Ministry of Natural Resources Key Laboratory for Polar Sciences, Polar Research Institute of China, 451 Jinqiao Road, Shanghai 200136, China) are responsible for implementing the DMP, and ensuring it is reviewed and revised;
2. Dr. Hongyuan Zheng and Dr.Minghong Cai will be responsible for each data management activity;

What resources will you require to deliver your plan?
