Data citation workflow

- Sextant catalogue is used to collect products (analysis, collection) metadata from data providers
Argo float data and metadata from Global Data Assembly Centre (Argo GDAC) - Snapshot of Argo GDAC as of November, 1st 2013

Date(s): 2013-11-01 (Publication)

Author(s): Argo

Point of contact(s): Ifremer

Publisher(s): Ifremer

DOI: 10.12770/2589b5b5-5173-41bf-97a-6d8721b8a84d

Abstract

This dataset is a copy of the entire Argo data and metadata made in November 2013.

Argo is a global array of 3,000 free-drifting profiling floats that measures the temperature and salinity of the upper 2,000 m of the ocean. This allows, for the first time, continuous monitoring of the temperature, salinity, and velocity of the upper ocean, with all data being relayed and made publicly available within hours after collection.

The array provides 100,000 temperature/salinity profiles and velocity measurements per year distributed over the global oceans at an average of 3-degree spacing. Some floats provide additional bio-geo parameters such as oxygen or chlorophyll.

All data collected by Argo floats are publicly available in near real-time via the Global Data Assembly Centers (GDACs) in Brest (France) and Monterey (California) after an automated quality control (QC), and in scientifically quality controlled form, delayed mode data, via the GDACs within six months of collection.

Keywords: float, Argo, global ocean observing system, ocean circulation, in-situ, ocean pressure, sea water salinity, sea water temperature, multi-year, weather climate and seasonal observation, global-ocean, Installations de suivi environnemental

Lineage

http://www.argo-damgt.org/Documentation

Utilisation

A user of Argo data is expected to read and understand this manual and the documentation about the data contained in the "attributes" of the NetCDF data files, as these contain essential information about data quality and accuracy.

A user should acknowledge use of Argo data in all publications and products where such data are used, preferably with the following standard sentence: "These data were collected and made freely available by the international Argo project and the national programs that contribute to it."

Data


How to cite

Argo (2013). Argo float data and metadata from Global Data Assembly Centre (Argo GDAC) - Snapshot of Argo GDAC as of November, 1st 2013. Ifremer. http://dx.doi.org/10.12770/2589b5b5-5173-41bf-97a-6d8721b8a84d
Mint the DOI

### Metadonnées transmises à DataCite

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**Mise à jour des métadonnées**

**Mise à jour de l'URL de la Landing page**
Argo float data and metadata from Global Data Assembly Centre (Argo GDAC) - Snapshot of Argo GDAC as of November, 1st 2013

Date(s): 2013-11-01 (Publication)
Author(s): Argo
Point of contact(s): Ifremer
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DOI: 10.12770/2580f5b-5174-41bf-9f7a-6c8721b8a44d

Abstract: This dataset is a copy of the entire Argo data and metadata made in November 2013. Argo is a global array of 3,000 free-drifting profiling floats that measures the temperature and salinity of the upper 2000 m of the ocean. This allows, for the first time, continuous monitoring of the temperature, salinity, and velocity of the upper ocean, with all data being relayed and made publicly available within hours after collection. The array provides 100,000 temperature/salinity profiles and velocity measurements per year distributed over the global oceans at an average of 3-degree spacing. Some floats provide additional bio-geo parameters such as oxygen or chlorophyll. All data collected by Argo floats are publicly available in near real-time via the Global Data Assembly Centers (GDACs) in Brest (France) and Monterey (California) after an automated quality control (QC), and in scientifically quality controlled form, delayed mode data, via the GDACs within six months of collection.

Keywords: float, Argo, global ocean observing system, ocean circulation, isopycnal, ocean pressure, oxygen, chlorophyll.
Specific challenges with dynamic datasets (here Argo)

- Currently one DOI for the whole datasets + related DOI per monthly snapshots, one permanent copy of datasets for each

- Perspectives:
  - One DOI for the whole dataset, but sub-queries for snapshots: http://dx.doi.org/10.12770/1282383D-9B35-4EAA-A9D6-4B0C24C0CFC9 #<meaning less key, e.g. a2ze34...>
  - Resolve to exactly the right version of the timestamped dataset cited
  - Can be done thanks to a dedicated key store. The key store resolution must be managed inside the landing page (javascript) because string after # does not go to the server.
  - Should be co-governed together by US-NODC and IFREMER (within Argo organization)
  - For sustainable snapshot management (volume issue), should use a version control repository system (e.g. GIT). Contact with SBA research which develops a server for this.