FICHE META\_INFORMATION\_PARAMETRES

(à remplir par le responsable du paramètre)

### Nom du DATASET / Data SET NAME

*Data set Name (list of the measured parameters):*

Dissolved organic Carbon (DOC)

### PROJET-ETUDE / *PROJECT TITLE*

*Campaign NAME*: AMOP *LEG: 1*

*Date* *begin: January 26th, 2014*

*Date end: February 22nd, 2014*

*Chief Scientist*: Aurélien PAULMIER, Boris DEWITTE, Véronique GARCON

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*Chief Mission*: Christophe MAES

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IFREMER -Centre de Brest

29280 PLOUZANE

### OPERATION *(if Relevant)*

*Sampling method:* Niskin bottles-rosette

*Station number-Cast number:*

*Operation code:*

### RESPONSABLE SCIENTIFIQUE du paramètre / *PI of the parameter*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nom / *name* | adresse /*address* | téléphone / *phone number* | fax /*fax number* | adresse mél /*email address* |
| Mireille Pujo-Pay | LOMIC UMR 7621 avenue du Fontaulé 66650 Banyuls/mer | 04 68 88 73 51 | 04 68 88 73 95 | pujopay@obs-banyuls.fr |

### DATASET contact

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| --- | --- | --- | --- | --- |
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### INFORMATION GEOGRAPHIQUES */ GEOGRAPHIC INFORMATION*

*Predefined site (if relevant):* Oxygen Minimum Zone (OMZ)

*Location:* Off Peru

*LATITUDE:* 7°50’S-14°34’S

*LONGITUDE:* 77°16’W-81°41’W

### DESCRIPTION DES INSTRUMENTS / INSTRUMENTS DESCRIPTION *(if Relevant)*

*Instrument Type:* High temperature combustion analyser (high temperature catalytic oxidation, HTCO, method)

*Manufacturer:* Shimadzu

*Model:* TOC-L

*Instrument Features / Calibration:*

Calibration is performed with standards prepared by diluting a stock solution of Acetalinid in MilliQ water. Consensus reference materials (http://www.rsmas.miami.edu/groups/biogeochem/CRM.html) was injected every12 samples to insure stable operating conditions

### DESCRIPTION DES PARAMETRES */ PARAMETERS DESCRIPTION*

# Ce qui a été collecté, mesuré et comment / *How was the parameter collected and measured (include references for analytical methods)?*

*Sampling:* Samples were collected from the Niskin bottles in combusted glass bottles and were immediately filtered through 2 precombusted (24 h, 450 \_C) glass fiber filters (Whatman GF/F, 25 mm). Filtered samples were collected into glass precombusted ampoules that where sealed immediately after sample were acidified with Orthophosphoric acid (H3PO4).

*Analytical procedure : (briefly, could be a short recall to a published reference):*

Samples were analysed immediately after the cruise by high temperature catalytic oxidation (HTCO) (Sugimura and Suzuki, 1988; Cauwet, 1994, 1999) on a Shimadzu TOC-L analyzer (new shimadzu TOC analyser). Typical analytical precision is ±0.1–0.5 (SD) or 0.2–1% (CV).

*Units:* µmol.L-1(µM)

*Sensor Precision:*

±0.1–0.5 (SD) or 0.2–1% (CV).

# Décrire quels types de données sont nécessaires pour vous compléter votre propre jeu de données **avant** envoi à la base de données, et estimer le délai avant la disponibilité de vos données pour la base de données / *Post-cruise data analysis/treatment required, and the time frame for this*

*Estimated Date of Delivery :*

### REFERENCES BIBLIOGRAPHIQUES

Cauwet G. 1994. HTCO method for dissolved organic carbon analysis in seawater : influence of catalyst on blank estimation. Mar. Chem., 47 (1) : 55-64.

Cauwet G., 1999. Determination of dissolved organic carbon (DOC) and nitrogen (DON) by high temperature combustion. In: K. Grashoff, K. Kremling and M. Ehrhard (Eds), Methods of seawater analysis, 3 rd edition. Wiley-VCH, Weinheim. pp. 407-420.

Sugimura Y, Suzuki Y., 1988. A high-temperature catalytic oxidation method for the determination of non-volatile dissolved organic carbon in seawater by direct injection of a liquid sample. Mar Chem 24:105-131.