FICHE META\_INFORMATION\_PARAMETRES

(à remplir par le responsable du paramètre)

####

### Nom du DATASET / Data SET NAME

*Data set Name :* Dissolved organic carbon (DOC)

### PROJET-ETUDE / *PROJECT TITLE* & Chefs de projet et mission / PIs

*Campaign NAME* : OUTPACE *LEG :*

*Date* *begin : 18/02/2015*

*Date end : 03/04/2015*

*Chief Scientist*: Thierry Moutin & Sophie Bonnet

*Address :* *M.I.O. Institut Méditerranéen d’Océanologie - UMR 7294
OSU Institut Pythéas, Campus de Luminy, Bâtiment Méditerranée
13288 MARSEILLE cedex 09, FRANCE*

& *M.I.O. Institut Méditerranéen d’Océanologie - IRD/CNRS/Aix-Marseille University*

*IRD Noumea, 101 Promenade R. Laroque, BP A5, 98 848 Nouméa Cedex*

*NEW CALEDONIA*

*Chief Mission*: Thierry Moutin

*Address : M.I.O. Institut Méditerranéen d’Océanologie - UMR 7294
OSU Institut Pythéas , Campus de Luminy, Bâtiment Méditerranée
13288 MARSEILLE cedex 09, France*

### ECHANTILLONNAGE ET OPERATIONS A LA MER / SAMPLING METHOD AND OPERATIONS AT SEA

*Sampling method : Rosette*

*Station number-Cast number :*

|  |  |
| --- | --- |
| Station Number | Sampled Cast Number |
| *SD-01* | *OUT-006 ; TMC-002* |
| *SD-02* | OUT-010 ; OUT-016 |
| SD-03 | OUT-019 ; OUT-020 |
| LD-A | OUT-027 ; OUT-042 . OUT-061 ; OUT-066 OUT-067 |
| SD-04 | OUT-070 ; OUT-071 |
| SD-05 | OUT-074 ; OUT-075 |
| SD-06 | OUT-078 ; OUT-079 |
| SD-07 | OUT-082 ; OUT-083 |
| SD-08 | OUT-086 ; OUT-087 |
| SD-09 | OUT-091 ; TMC-012 |
| SD-10 | OUT-094 ; OUT095 |
| SD-11 | OUT-098 ; OUT-099 |
| SD-12 | OUT-102 ; OUT-103 |
| LD-B | OUT-109 ; OUT-127 . OUT-145 ; OUT-150 OUT-151 |
| SD-13 | OUT-152 |
| LD-C | OUT-158 ; OUT-163 ; OUT-175 ; TMC 18 . OUT-193 ; OUT-194 . OUT-198 ; OUT-199  |
| SD-14 | OUT-209 , OUT-210 |
| SD-15 | OUT-212 ; OUT-213 |

*Operation code :*  DOC

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nom /*name* | adresse / *address* | téléphone / *phone number* | fax /*fax number* | adresse mél /*email address* |
| **Pujo-Pay Mireille** | Laboratoire d’Océanographie Biologique (LOMIC) UMR 7621 – Laboratoire Arago. Av du Fontaulé. 66650 Banyuls sur Mer - FRANCE | **+33 4 68 88 73 51** |  | pujopay@obs-banyuls.fr |

Remarque / Remark : Pour la pérennité de la base de données, il est fortement suggéré que le responsable scientifique ait un poste permanent / For the perinity of the database, it is recommended that the PI of the parameter has a permanent position.

### Contact Base de données pour ce paramètre / DATASET contact for this parameter

Remarque / Remark : Pour la pérennité de la base de données, il est fortement suggéré que le contact base de donnée ait un poste permanent / For the perinity of the database, it is recommended that the dataset contact for this parameter has a permanent position.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nom /*name* | adresse / *address* | téléphone / *phone number* | fax /*fax number* | adresse mél /*email address* |
| **Pujo-Pay Mireille** | Laboratoire d’Océanographie Biologique (LOMIC) UMR 7621 – Laboratoire Arago. Av du Fontaulé. 66650 Banyuls sur Mer - FRANCE | **+33 4 68 88 73 51** |  | pujopay@obs-banyuls.fr |

### Autre(s) participant(s) à la mesure de ce paramètre / Other participant(s) for the measurement of this parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nom /*name* | adresse / *address* | téléphone / *phone number* | role | adresse mél /*email address* |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

### INFORMATION GEOGRAPHIQUES */ GEOGRAPHIC INFORMATION*

*Predefined site (if relevant):*

*Location: South Pacific Ocean*

*LATITUDE: S 17° - S 23°*

*LONGITUDE: E 159° – W 149°*

### DESCRIPTION DES INSTRUMENTS / INSTRUMENTS DESCRIPTION

*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 (1) was injected every 12 samples to insure stable operating conditions

(1) http://www.rsmas.miami.edu/groups/biogeochem/CRM.html

### 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 samples were acidified with Orthophosphoric acid (H3PO4).

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

Samples are analysed by high temperature catalytic oxidation (HTCO) (Sugimura and Suzuki, 1988; Cauwet, 1994, 1999) on a Shimadzu TOC-L analyzer.

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*Units:* µmol.L-1(µM)

*Sensor Precision:*

Typical analytical precision is ±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 : Last Trimester 2015*

### 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.