

Spain

National committee (under SCOR-Spain)

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Meetings

- We co-organized the GEOTRACES section GA04-S on board *RV Ángeles Alvariño* between May 2nd and June 1st. We took circa 85 samples in 10 stations to analyze different isotopes such as ²³¹Pa/²³⁰Th, ²³⁶,²³⁸U, Pu isotopes, ¹³⁷Cs, ⁹⁰Sr, ¹²⁹I, ²³⁴Th, ²³⁷Np, ²²⁸,²²⁶Ra, Nd-isotopes and Deuterium. We also organized some experiments related to analyze ²¹⁰Pb and ²¹⁰Po in different ways to check the differences between some methods. We also deployed ISP (n=6) in order to collect particles to analyze particulate trace metals.
- Participation at the Arctic GEOTRACES Meeting, Bremerhaven, April 2012 and submission of two Polarstern proposals for expeditions in 2015 and 2016.
- Participation at the GEOTRACES Latin America Meeting, Rio de Janeiro, November 2012, we did some presentations and also started the collaboration with some south American labs.
- Participation in the Workshop on Voltammetry and GEOTRACES, Sibenik (Croacia), 6-9 October 2012.

Publications

GEOTRACES-related papers

- Rodellas V, Garcia-Orellana J, Tovar-Sánchez A, Basterretxea G, López-García JM, Sánchez-Quiles D, Garcia-Solsona E, Masqué P. Submarine groundwater discharge as a source of nutrients and trace metals in a Mediterranean Bay (Palma Beach, Balearic Islands). Submitted to *Limnology and Oceanography*.
- Geibert W, Rodellas R, Annett A, van Beek P, Garcia-Orellana J, Hsieh Y-T, Masqué P. The measurement of ²²⁶Ra via the rate of ²²²Rn ingrowth with the radium delayed coincidence counter. Submitted to *Limnology and Oceanography Methods*.
- Santos-Echendia J, Caetano M, Brito P, Canario J, Vale C, 2012. The relevance of defining trace metal baselines in coastal waters at a regional scale: The case of the Portuguese coast (SW Europe). *Marine Environmental Research* 79: 86-99. doi: 10.1016/j.marenvres.2012.05.010
- Prego, R., Santos-Echeandía, J., Bernárdez, P., Cobelo-García, A. & Varela, M. 2013. Trace metals in the NE Atlantic coastal zone of Finisterre (Iberian Peninsula): terrestrial and marine sources and rates of sedimentation. *Journal of Marine Systems*, in press, 10.1016/j.jmarsys.2012.05.008
- Rigaud S, Puigcorbé V, Camara-Mor P, Casacuberta N, Roca-Martí M, Garcia-Orellana J, Benitez-Nelson CR, Masque P and Church T. A methods assessment and recommendations for improving calculations and reducing uncertainties in the determination of ²¹⁰Po and ²¹⁰Pb activities in seawater. Submitted to *Limnology and Oceanography Methods*.
- Casacuberta N, Masqué P, Garcia-Orellana J, Garcia-Tenorio R and Buesseler KO (2013) ⁹⁰Sr and ⁸⁹Sr in seawater off Japan as a consequence of the Fukushima Dai-ichi nuclear accident. *Biogeosciences* 10, 3649-3659.

Coauthoring several papers of the Intercalibration special issue in Limnology and Oceanography Methods:

- Church, T., Rigaud, S., Baskaran, M., Kumar, A., Friedrich, J., Masqué, P., Puigcorbé, V., Kim, G., Radakovitch, O., Hong, G., Choi, H.-Y. and Stewart, G. (2012). Inter-calibration studies of ^{210}Po and ^{210}Pb in dissolved and particulate sea water samples. *Limnology and Oceanography: Methods* 10, 776-789.
- Kenna, T.C., Masqué P., Mas, J.L., Camara-Mor, P., Chamizo, C., Scholten, S., Eriksson, M., Sanchez-Cabeza, J.A., Gastaud, J., Levy, I., Herrmann, J., Lindahl, P. and Nielsen, S. (2012). Intercal: Intercalibration of selected anthropogenic radionuclides for the GEOTRACES Program. *Limnology and Oceanography: Methods* 10, 590-607.
- Maiti, K., Buesseler, K.O., Pike, S.M., Benitez-Nelson, C., Cai, P., Chen, W., Cochran, J.K., Dai, M., Dehairs, F., Gasser, B., P. Kelly, R., Masque, P., Miller, L., Miquel, J.C., Moran, S.B., Morris, P., Peine, F., Planchon, F., Renfro, A.A., Rutgers van der Loeff, M., Santschi, P., Turnewitsch, R., Waples, J. and Xu, C. (2012). Intercalibration studies of short lived Thorium-234 in the water column and marine particles. *Limnology and Oceanography: Methods* 10, 631-644.

Meetings

Several contributions to:

- 2012 Ocean Sciences Meeting, Salt Lake City, Utah (USA), 20-24 February 2012.
- 2012 Goldschmidt Meeting, Montreal, 25-29 June 2012.
- 2013 ASLO Aquatic Sciences Meeting, 17-22 February 2013, New Orleans.
- 40th CIESM Congress – Marseille, France, 28 October - 1 November 2013.
- 12th International Estuarine Biogeochemistry Symposium (IEBS2013). <http://www.iebs2013.org/> Plymouth University, 30th June - 4th July 2013.

Submitted by: Jordi Garcia-Orellana