

## HPLC sampling protocol used at IMARPE station

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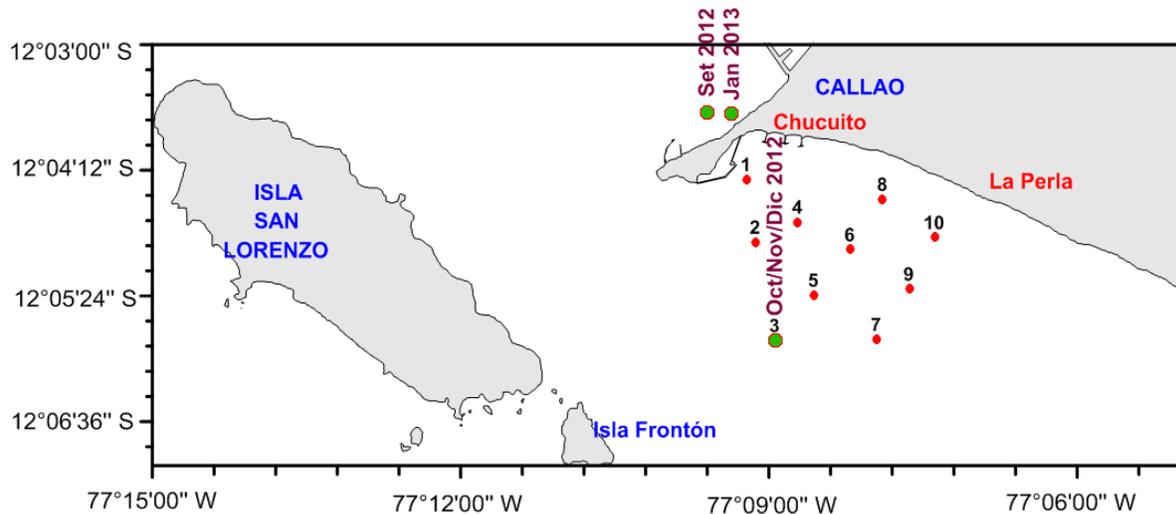
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### 1. Introduction

The "IMARPE-Callao" station is located 20 mn from the port of Callao - Peru, activity began in 1995, its bottom is 150 m, is operated by the Instituto del Mar del Peru, its objective is to study the oceanographic variability off the Peruvian coast, algal blooms and its relationship with ENSO. The information to register corresponds to the bay of Callao, corresponding to research the coastline.



### 2. Sample collection

The sampling protocol used at IMARPE station follows (Hooker et al., 2005).

**Water collection.** Water samples for the determination chlorophyll-a concentration and other pigments are taken from surface with a bucket and from different depths using Niskin bottles. Recently a rosette with 6 Niskin bottles of 4 liters was implemented. When using a bucket, care is taken not to touch the ship's hull while lifting, otherwise the sample is discarded. The sample is transferred with a funnel to a dark container which is previously rinsed with the water sampled three times.

**Filtering.** A volume range 250 to 500 ml of seawater from each sampled depth is filtered in dim light on board onto a 25 mm-GF/F glass fiber filters using vacuum (< 5 PSI). A new filter is used for each sample. Then, the filters are carefully put onto absorbent paper with the filtrated facing up, folded in the middle and dried from the outside face, never touching the material collected with the fingers. The folded filters are wrapped with aluminum foil; a label is placed within an inner fold and another in the outside.

**Storage.** Samples are stored on board in liquid nitrogen immediately after being filtered. The liquid nitrogen thermo is moved to the laboratory and once there, the samples are transferred into an ultra freezer (-80°C). Finally, the samples are shipped overseas inside a cardboard-wrapped polystyrene container with enough amount of dry ice until arriving to destiny. Particularly, these samples were transported in dry ice to Scripps and then in a liquid nitrogen dewar to NASA.

### **3. Caveats of the data**

Samples of the cruises 2012 to 2013 were transported from Callao, Perú to Scripps and finally to Greenbelt, USA.

### **4. References**

Hooker, S.B., Van Heukelem, L., Thomas, C., Claustre, H., Ras, J., Barlow, R., Sessions, H., Schlüter, L., Perl, J., Trees, C., Stuart, V., Head, E., Clementson, L., Fishwick, J., Llewellyn, C.A., Aiken, J. 2005. The second SeaWiFS HPLC Analysis Round-Robin Experiment (Sea-HARRE-2). NASA/TM-2005-212785.