



Hydrographic Commission on Antarctica

National Report by
(PERÚ)





DIRECTORATE OF HYDROGRAPHY AND NAVIGATION



INTERNATIONAL HYDROGRAPHIC ORGANIZATION
HYDROGRAPHIC COMMISSION ON ANTARCTICA (HCA)

14th CONFERENCE TROMSO – NORWAY

28 – 30 JUNE, 2016





1. HYDROGRAPHY OFFICE / SERVICE



- ✦ The mission of the Directorate of Hydrography and Navigation is to manage, operate and research the activities related to environmental sciences in the sea, river, lake and Antarctic field to contribute to national development, support and safety navigation, Naval Forces and mariners in general.
- ✦ This Directorate has been serving the Peruvian state and national and international community for almost 113 years
- ✦ Likewise, It has been actively involved in campaigns and expeditions in Antarctica since 1985.





2. SURVEY ANTAR XXI (2012-2013)

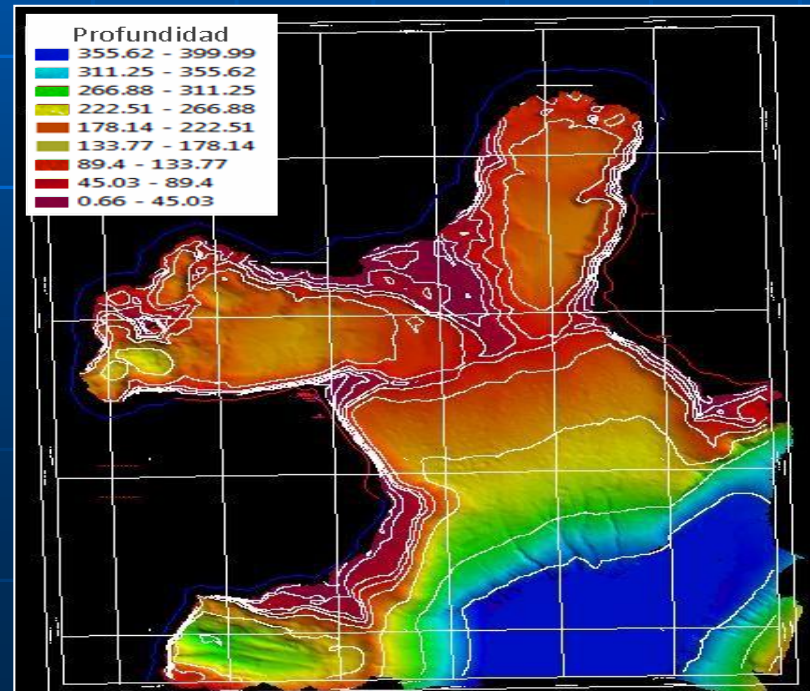
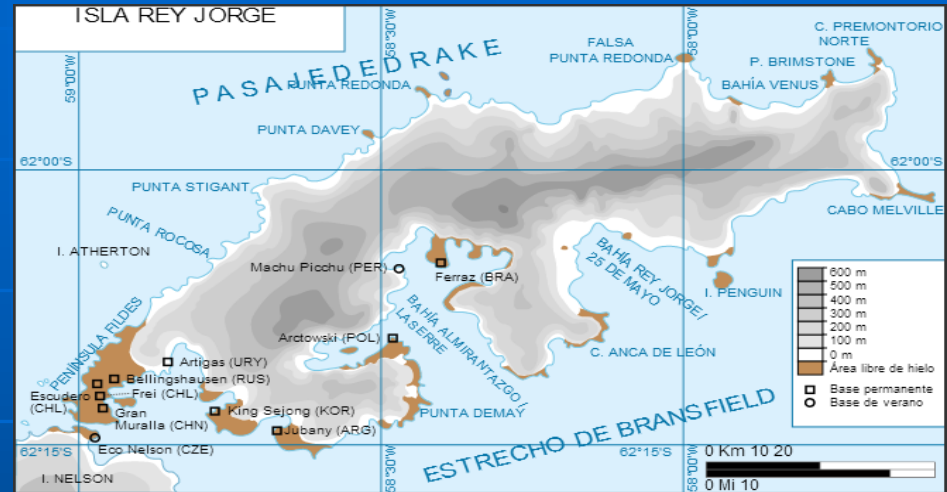
HYDRO-MORPHOLOGY SURVEY Harbor Chart H-7113 "MACKELLAR COVE"

a. Location

The work area is located in Mackellar cove, at Admiralty Bay, between Latitude 62° 06' South and Longitude 58° 25' West Antarctic Continent.
Chart scale 1:15,000

NEW TECNOLOGY AND EQUIPMENTS

First Hydrographic-Morphology Survey with Multibeam technology on board of the AEH-178 hydrographic vessel.





2. SURVEY ANTAR XXII (2013-2014)



MONITORING OF THE COASTAL PROFILE VARIABILITY IN THE MACKELLAR COVE OF THE ADMIRALTY BAY



Coastal profile survey was carried out using the method of walking with the DGPS-Trimble Total Station in Real-Time Kinematic (RTK) mode for updating the Antarctica charts.



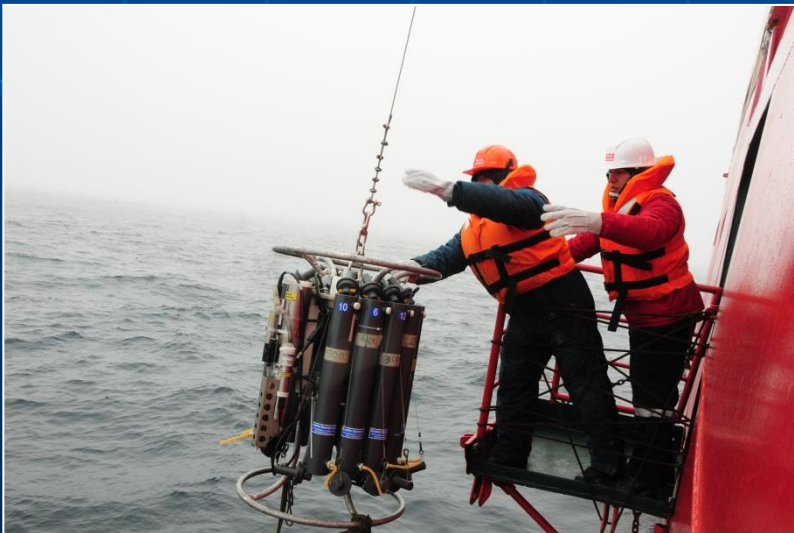
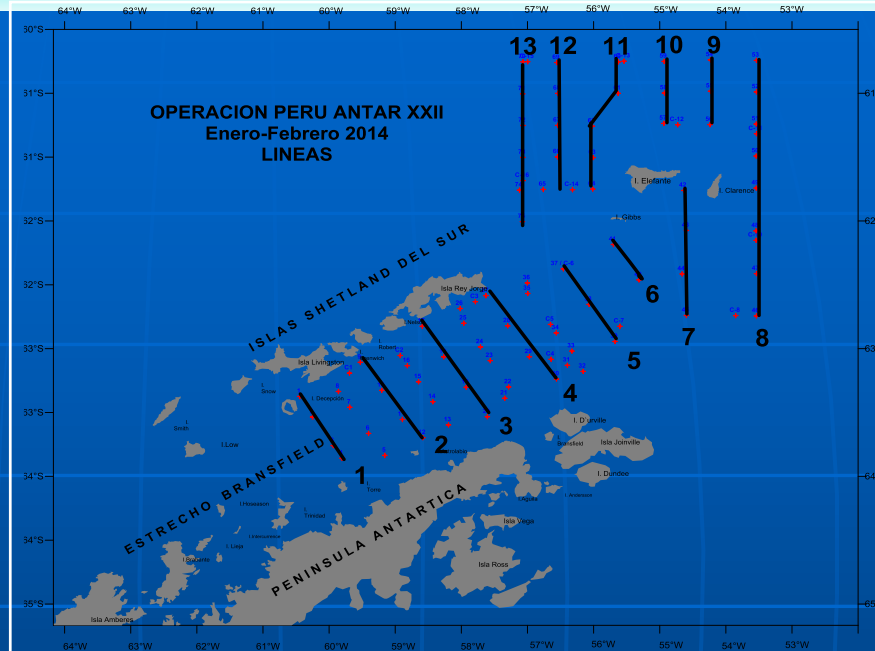
Leveling works "Machu Picchu" research station

Topography survey to find the chart datum line

New beaches because of global warming

2. SURVEY ANTAR XXII (2013-2014)

Oceanographic Cruise
in the Brandfield Strait
during the Austral
summer.



Launching of the Roseta



Salinity measurement in Guildline salinometer



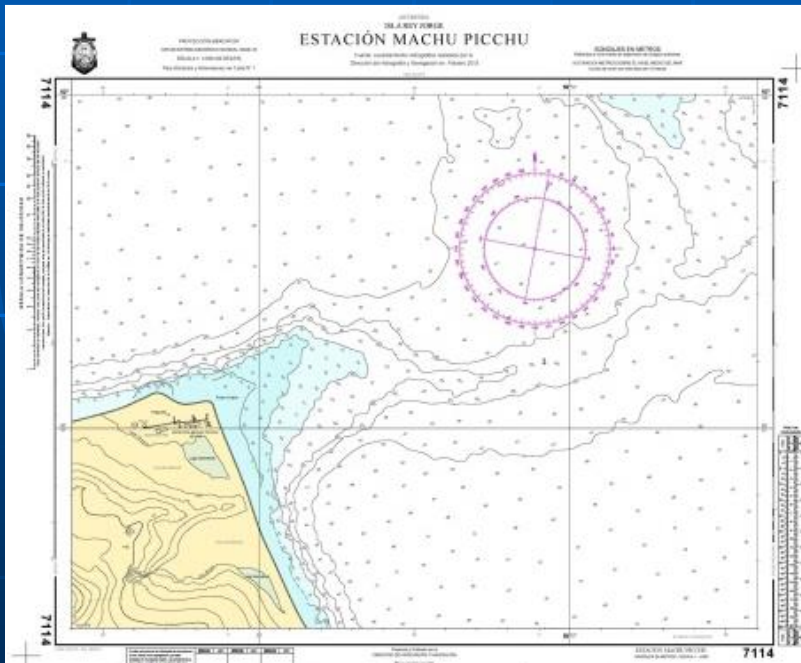
3. NEW CHARTS AND UPDATES - NPC

NAUTICAL CHART

N° 7114 “Machu Picchu Base Station”

Edition: October 1st 2013

Scale 1: 4000

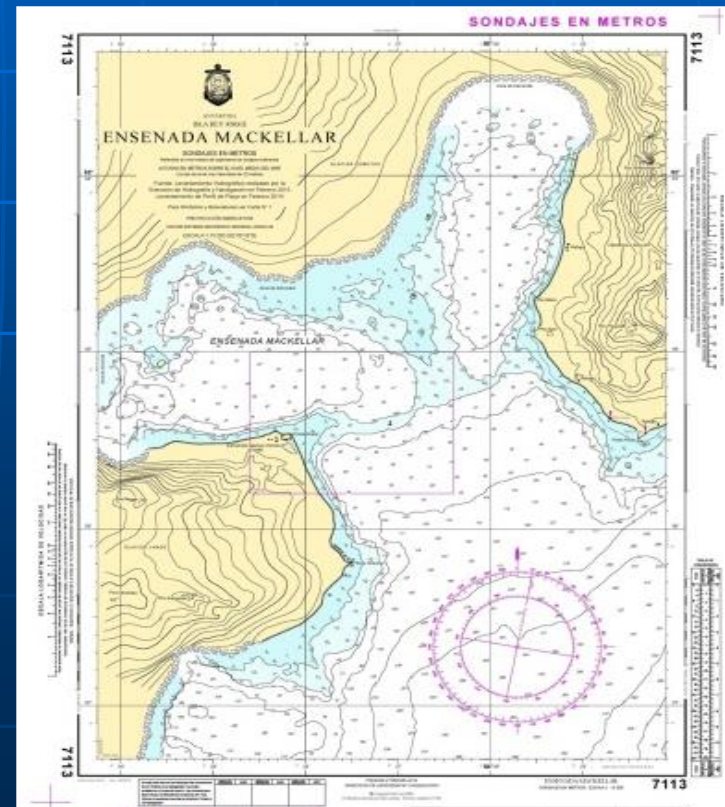


NAUTICAL CHART

N° 7113 “Mackellar Cove”

Edition: November 1st 2013

Scale 1: 15,000





3. NEW CHARTS AND UPDATES – ENC



ELECTRONIC NAUTICAL CHART

ENC Code: PE607114

“Machu Picchu Base Station”

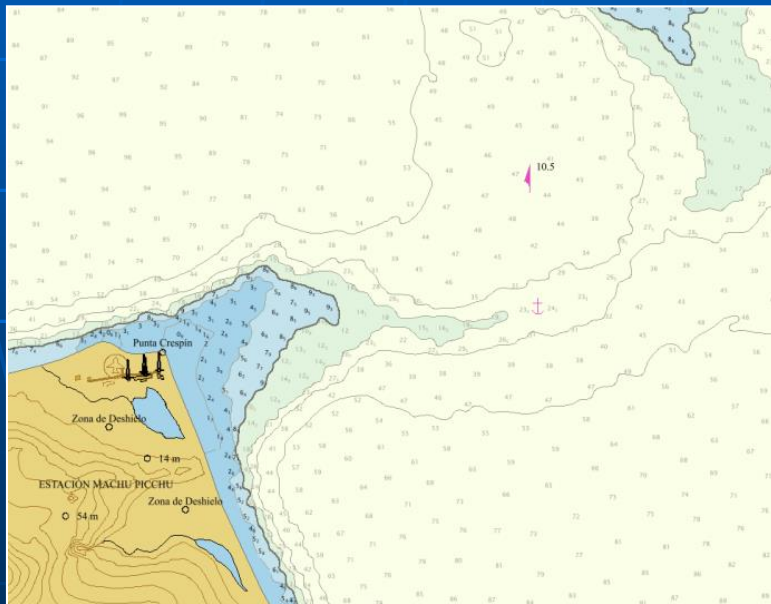
Edition: October 1st 2013 Scale 1: 4000

ELECTRONIC NAUTICAL CHART

ENC Code: PE507113 “Mackellar Cove”

Edition: November 3rd 2013

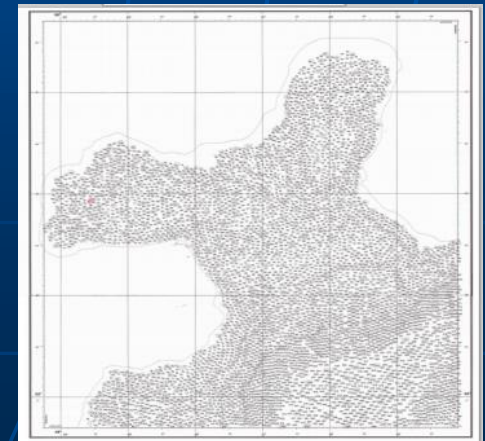
Scale: 1: 15,000





4. NEW CHART – INT 9125

NAUTICAL CHART N° 7112, Admiralty Bay (INT-9125)
Peru is working with Brazil to have about September 2016, the new edition of the international chart using the last Peruvian survey with multibeam technology.





5. PLANNED ACTIVITIES 2016



The Directorate of Hydrography and Navigation has planned the following activities in 2016:

- ✓ Distribution of National Antarctic nautical charts in paper and electronic format.
- ✓ Conversion of National Antarctic Nautical Charts in the format established for producing international charts (INT) to be sent to IHO – HCA.
- ✓ Oceanographic Research cruise in Bransfield Strait.
- ✓ Collection of meteorology data
- ✓ Sail and collect information in the first hydro-oceanographic vessel with polar capacity.





6. HYDRO-OCEANOGRAPHIC VESSEL WITH POLAR CAPACITY



DESIGN:

Type ECHO HMS

DIMENSIONS:

1. Displacement: 5,000 tons.
2. Length: 95.30 meters
3. Beam: 18.0 meters
4. Draught: 5.95 meters



CAPACITY:

1. Estudios oceanográficos (física / química / geológica / biológica)
2. Levantamientos hidrográficos.
3. Clase Polar PC-7: Navegación en verano u otoño en hielo delgado del primer año que puede incluir trozos de hielo viejo
4. Apoyo logístico a la estación científica Antártica
5. Operaciones con helicóptero



ANTARCTICA

“A natural reserve devoted to peace and science”

