



DIRECTORATE OF HYDROGRAPHY AND NAVIGATION

The mission of the Directorate of Hydrography and Navigation is to manage, operate and investigate environment science-related activities in the aquatic field, to contribute to national development, provide support and safety navigation to naval units and mariners in general and contribute to achieving corporate objectives.



GEOMATIC DEPARTMENT

The Geomatic Department provides strategic and tactical information obtained from satellite images, aerial photographs and other images. It is in charge of the remote sensing works, photogrammetry, and other special projects assigned by the Naval High Command. It has the following divisions:

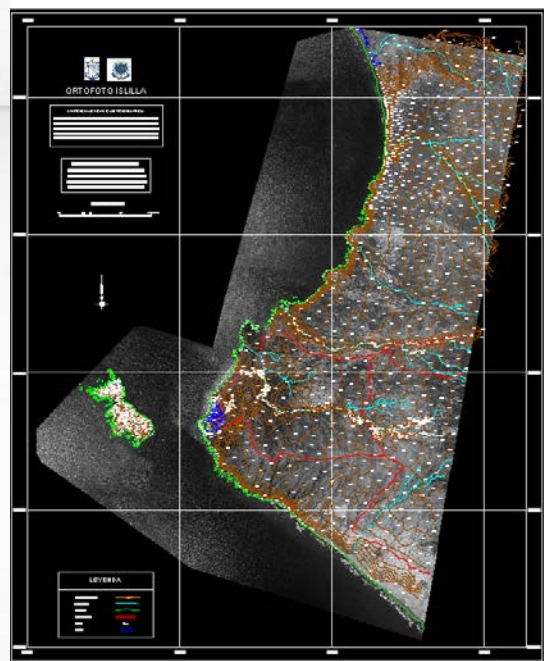
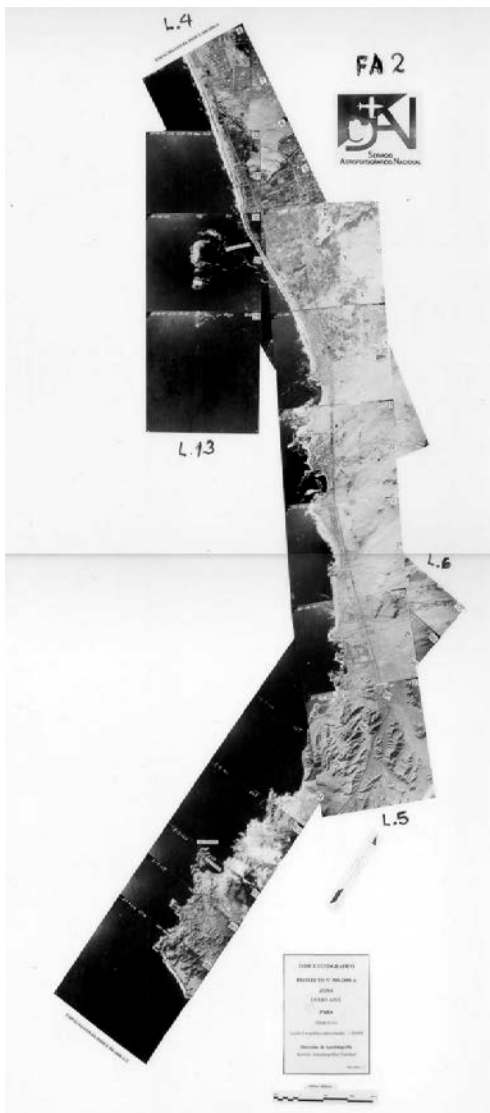
- Digital Photogrammetry Division
- Remote Sensing and GIS Division

DIGITAL PHOTOGRAMMETRY DIVISION

Photogrammetry Division provides cartographic products with the purpose of developing the nautical chart which is useful to the navigator. Our source of information are the aerial photographs in a scale of 1:20,000 which are developed using the SOCET SET photogrammetric and Autocad software. We have two Photogrammetric Stations and two (2) Cartographic Editing Stations.

This Division carries out the following activities:

- ✓ Development of Orthophotos
- ✓ Extraction of Contour lines
- ✓ Topographic Maps
- ✓ Photogrammetry
- ✓ Photomaps
- ✓ Anaglyphs



REMOTE SENSING DIVISION AND GEOGRAPHIC INFORMATION SYSTEM (GIS)

The Remote Sensing Division and GIS planning, organize, coordinate and control the activities of Remote Sensing and Geographic Information Systems at an institutional level. Naval personnel are trained through this Division in the use and management of GIS software. Guidelines are developed for future projects.

We use the software PCI Geomatics and ArcGIS software, for the development of our products. We can mention some of our products:

- ✓ Charts Images (Satellite Images in High Resolution)
- ✓ 3D Charts.
- ✓ Visual analysis of infrastructures.
- ✓ 3D simulation.
- ✓ Strategic analysis of areas of interest
- ✓ Thematic Maps.
- ✓ Web Mapservices.
- ✓ Multitemporal Analysis of the Amazon river (Iquitos) and Ucayali river (Pucallpa) using Radarsat images.
- ✓ Peruvian Coastline GIS
- ✓ Titicaca lake GIS
- ✓ DEMs

