 Input paper: [[1]](#footnote-1) ENG3-6.2.1

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM **X** ENG **□** PAP **X** Input

**□** ENAV **□** VTS **□** Information

Agenda item [[2]](#footnote-2) 6

Task Number 2 2.1.

Author(s) / Submitter(s) Adam Hay

Installation of Coastal Monitoring Stations in Papua New Guinea.

# Summary

The Coastal Monitoring Station project was implemented by the National Maritime Safety Authority (NMSA) of PNG to allow remote monitoring of shipping at three key locations where there is a large volume of international shipping. These sites includes Jomard Island (Jomard Passage), Tuam Island (Vitiaz Straight) and Cape St George (St George’s Channel).

Each Coastal Monitoring Station consists of a number of key sensors installed on an existing marine Aids to Navigation (AtoN) structure. The sensors include an Automatic Identification System (AIS) Base Station, a radar, a CCTV, a security camera and a weather station.

All stations were located on very remote sites. All sites are run on a combination of solar panels and wind turbine.

Each site has a designated satellite communications link. A 4m satellite dish is installed on each site and data is transmitted over the satellite link to the NMSA Marine Rescue Coordination Centre (MRCC). The size of the link is approximately 1012 mbp/s and transmits 24 hours a day.

There were significant challenges encountered and overcome during the project. This presentation will focus on some of those challenges and provide details of how the project was implemented.

## Purpose of the document

Presentation for ENG3 to inform the committee on development and application of monitoring technology.

## Related documents

A copy of the presentation slides will be available on the IALA Wiki on the Engineering & Sustainability Committee pages.

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)