



SCAR Sub-Group

SG

Person
Responsible:

ANTOS

PS/LS/GS

Craig Cary

SCAR Executive Committee Meeting 2019

Plovdiv, Bulgaria, 29-31 July 2019

Antarctic Near-Shore and Terrestrial Observation System (ANTOS) **2018-19 Report**

ANTOS accomplishments – 2018-2019

1. **SCAR Integrated Science for the Sub Antarctic ISSA Workshop October 10-13, 2018.** ISSA workshop held on Great Barrier Island and convened by Gary Wilson and Justine Shaw. In attendance were representatives of most National Programmes that have jurisdiction/management concerns in the sub-Antarctic. ANTOS was represented and presented at the meeting with the objective to make the sub-Antarctic island community aware of ANTOS and to solicit participation in an effort to expand the ANTOS network to the sub-Antarctic. The effort has already proved valuable in that the French attendees have sought support to establish 2-3 Tier 1 towers in the Kerguelen Islands.
2. Matching funding has been obtained through an internal grant to Sharon Robinson (ANTOS Committee Member) from the University of Wollongong (~\$28K) to develop an ANTOS terrestrial survey protocol. This protocol will accompany the Terrestrial technical manual to assist new ANTOS participants in obtaining the critical baseline data needed prior to the installation of a Tier 1-3 system. A workshop will be held on August 19th-23rd partially supported by ANTOS to help facilitate the meeting.
3. 2-3 workshops are planned for later in 2019. These will include gathering the database designers and specific researchers to put the final touches to the database prior to public release, and the final meetings of both the terrestrial and marine groups to finalize the technical manual. Several of the leadership committee will also meet to design the prospectus that will be used to fund raise for the ANTOS programme.
4. Most exciting is that the Italian National Programme has support one of its researchers to install four new ANTOS Tier 1 systems in four locations near to Terra Nova Bay. These new systems will integrate several new sensors that are measuring the bioactivity of known endolithic

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communities. The data will be live streamed into the new database hosted by KOPRI. This will bring the total on-line terrestrial systems to 8.

5. A new vendor has been identified in Victoria, British Columbia, Canada that has the experience of integrating marine sensor systems in polar environments. In a recent series of meetings, they have agreed to develop a prototype telemetered (iridium) system much needed for the near-shore component of ANTOS.