

MEMBER COUNTRY: France
National Report to SCAR for year 2010-2011

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2)						
AGCS						
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2) Climate of Antarctica and the Southern Ocean (CASO, IPY N° 132)	SPEICH Sabrina	Laboratoire de Physique des Océans, Université de Bretagne Occidentale, 6 avenue Le Gorgeu, CS 93837, 29238 Brest Cedex 3 France	33 (0)2 98 016 511	33 (0)2 98 016 468	Sabrina.Speich@univ-brest.fr	
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3)						
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2)						
AAA (2010-)						
1)						
2)						

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ACTION GROUPS						
1) 2) insert others as needed						
EXPERT GROUPS						
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SCAGI						
1) 2)						
NATIONAL ANTARCTIC DATA CENTRE						
SCAR DATABASE						
insert name of database for which your country has responsibility						

A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS*:

- 1) Global Seismological Observatory at Dumont d'Urville (Adelie Land):** The main purpose of the programme is the observation of ground displacements at high latitudes in the southern hemisphere, at broadband frequencies and with large dynamic range. The continuity, quality, stability, and homogeneity of these observations are of utmost importance (IPEV Progr. N°133).
- 2) Seismology at Concordia:** Operation of a broad-band station and the deployment of a seismometer array for earthquake and Earth's structure studies. The station will supplement the worldwide seismological network in a region where its coverage remains very sparse. The goal of the seismometer array is to observe low-energy seismic waves (IPEV Progr. N° 906).
- 3) Permanent Magnetic Observatory at Dumont d'Urville 'Adelie Land:** The main purpose of the programme is the observation of the Earth's magnetic field at high southern latitudes (IAGA Code: DRV). Variations of the magnetic field components are recorded at a sampling rate of one second and absolute measurements of the magnetic field components are performed every two days. Data are distributed to the international scientific community through BCMT, INTERMAGNET and WDCs (IPEV Progr. N° 139).
- 4) Permanent Magnetic Observatory at Concordia:** The programme aims at maintaining a permanent magnetic observatory at Dome C (IAGA Code: DMC) located inland at a distance of about 1000 km from the coast, at 3000 meters above the Earth's crust and just in the middle of the auroral oval. The observatory allows recording of absolute measurements of the three components of the Earth's magnetic field at a sampling rate of one second. The location of DMC is important for the study of internal and external magnetic sources. Data are distributed to the international scientific community through BCMT, INTERMAGNET and WDCs (IPEV Progr. N° 905).
- 5) Southern Ocean Top Predator Tracking Database:** The expert group BAMB is currently building two databases: one compiles the references of all scientific articles that are concerned with studies on top predators in the Southern Ocean, and one compiling tracking data of top predators so that they would be accessible through SCAR-marBIN (SCAR).
- 6) Penguins as Indicators of Climate Anomalies in the Southern Ocean:** This programme aims at determining the capacity of Adelie and King penguins to face environmental changes occurring in the Southern Ocean, using a dual at-sea and on-land approach, at both the individual and population levels. (IPEV Progr. N° 137).
- 7) Oceanography in Adélie/Georges V Land:** monitoring the Adelie Land Bottom water precursors by summer hydrography and moorings (IPEV Progr. N° 452).
- 8) CESOA:** The programme is part of an international network to characterize the climate-forcing properties of aerosols in polar regions (IPEV Progr: N° 414 & 903).
- 9) TASTE-IDEA France:** Trans-Antarctic Scientific Traverses Expeditions - Ice Divide of East Antarctica - Component of SCAR-ITASE. Next traverse is between Dome C and Vostok (IPEV Progr. N° 454).
- 10) CRACICE:** Collaborative Research into Antarctic Calvin and Iceberg Evolution - Monitoring of Mertz Glacier (IPEV Progr. N°1050).
- 11) EXPLORE:** Exploration of a low accumulation site in East Antarctica - Component of IPICS (IPEV Progr. N° 1052).
- 12) DAKOTA:** Coastal glacier Dynamics and their impact on the Antarctica Mass-Balance - Survey of the Astrolabe glacier, Adelie Land (IPEV Progr. N° 1053).
- 13) GLACIOLAC:** Study of the subglacial Vostok lake (IPEV Progr. N° 355).
- 14) GLACIOCLIM-SAMBA:** Monitoring of the surface mass balance in Antarctica. Links with climate: coastal area and Dome C (IPEV Progr. N° 411).
- 15) GLACIOLOGIE:** snow and ice studies at Concordia - Survey of the EPICA borehole and of the strain net around Dome C (IPEV Progr. N° 902).
- 16) SUNITE DC:** Evolution of sulfate and nitrate in the snow and the atmosphere at Dome C through isotopic composition (IPEV Progr N° 1011).
- 17) CALVA:** Calibration - validation of the meteorological/climate models and of remote sensing techniques from the coast to the plateau, from Dumont d'Urville to Dome C (IPEV Progr. N° 1013).
- 18) SOSVOL:** Study of the volcanic and solar forcing at Dome C through ice core analysis (IPEV Progr. N° 1001)..
- 19) ECOBIO:** Study of the impact of climate change and human activities (mainly anthropogenically-related biological invasions) on the biodiversity of the subantarctic insular terrestrial ecosystem (IPEV Progr. N° 136)
- 20) REVOLTA:** Radiative evolution in Terre Adélie - zoological inventories of the marine benthic fauna of Eastern Antarctica and study of Antarctic species flocks (IPEV Progr N° 1124)
- 21) ECOENERGIE:** 21) ECOENERGIE: Ashore living strategies of penguins: physiological mechanisms and evolutionary trade-offs (IPEV Progr N° 119)

- 22) ArLiTA:** Architecture of Lithosphere of Terre Adelie - Characterization of the lithospheric structures and the deformation patterns of Adelie Land and George Vth Land basement (IPEV Progr N° 1003)
- 23) ADAPT-EVE:** Psychology in Terre Adelie- Qualitative and quantitative study of stressful events on psychosocial adjustment on winterover expedition members (IPEV Prog n° 1062)
- 24) ICE-Q:** Psychology in all french stations - Building and assessment of a questionnaire used to select and survey crews in isolated and confined environments (IPEV Prog. N°1136)
- 25) TURNOVER-TA:** Psychology in Terre Adelie - Study of turnover processes used by expedition members (IPEV prog. N°1046)
- 26) COGNIPOLE:** Concordia - Study of the impact of sleep and circadian rhythm disturbance on executive functions during long term ICE situation.
- 27) ESCOM:** Concordia - Study of the effect of exercise on sleep regulation cognitive performance, mental health and mood in ICE situation.
- 28) BEACON:** Concordia - Assessment of biomarkers for behavioral adaptation and health during ICE situation.
- 29) ISOSTRESS:** Concordia - Assessment of non invasive technology used to investigate physiological and behavioral adaptation to life in ICE situation.
- 30) MEGA:** Concordia - Long duration support for self-management and team collaboration.
- 31) LTMS:** Long term medical survey of psychological and physiological adaptation during life in ICE situation.
- 32) ASTROCONCORDIA:** Astronomical site properties monitoring by means of dedicated instrumentation. Deployment of a new instrument named "PBL" for vertical profiling of the ground based turbulent layer (IPEV prog.r. N°908)
- 33) ASTEP:** A 40-cm diameter telescope exploring 15 square degrees of sky for discovering new exoplanets by the transit method. (IPEV progr. N°1066)

* Please include any scientific activities you believe might be considered bioprospecting (<http://www.scar.org/treaty/atcmxxxiii/> see WP2)