

SIBClim-BASICS activities @ SIMBA 2007	Belgian Labs	Other Labs
Ice sampling	GLACIOL	
Energy fluxes SW down LW down LW up Albedo Air temp., humidity, pressure (sensible/latent heat) Oceanic heat fluxes PAR	UCL, GLACIOL	UTSA, DRI, CRREL
Snow properties Thickness (incl. spatial variability) Temperature Density	UCL	
Ice properties Temperature Bulk salinity $\delta^{18}\text{O}$ ice texture and fabrics	GLACIOL GLACIOL GLACIOL	UTSA ACE-CRC (Worby T.)
Gases in ice O ₂ N ₂ CO ₂ CH ₄ DMS Isoprene	GLACIOL GLACIOL GLACIOL GLACIOL GLACIOL GLACIOL	
CO₂ and O₂ diss. in brines (4-6 depths) and under ice water (5 depths) pCO ₂ Total alkalinity DIC Dissolved O ₂	COU COU COU COU	O&F, CEOS, DRI
CO₂ fluxes @ Air/ice interface (bell)	COU	LDEO
underway CO₂ meas. (continuous) in seawater	COU	
CaCO₃ filtration (ice)	COU	
CO₂, DMS fluxes @ air/ice interface (Eddy)		CEOS
Trace metals (Fe, Mn, Al, possibly others) TDTM PTM (>0.2μM) TM (<0.2 μM) TM (0.2-10kDa) TM (10-1kDa) Fe isotopes (ice, brine, snow, under ice water)	ESA/LOCGE ESA/LOCGE ESA/LOCGE ESA/LOCGE ESA/LOCGE DSTE	
Organic matter POC/PON DOC/DON DOC (0,2-10kDa) DOC (10-1kDa) TEP- APS Uronic acids diss& part p-TCHO, monosaccharides & polysaccharides diss, amino-acids DMSP(O)	ESA/LOCGE ESA/LOCGE ESA/LOCGE ESA/LOCGE ESA ESA ESA GLACIOL	DRI
Organisms-stocks Bacteria enumeration and biomass Bacterial diversity (DGGE, Fish) Algae enumeration and biomass Protozoa enumeration and biomass Chl-a Viability	ESA ESA ESA ESA ESA ESA	DRI
Organisms-activities Bacterial production Bacterial ectoenzymatic activity Bacterial respiration ^{55}Fe uptake & ^{14}C uptake Addition of artificial organic complexes ^{55}Fe uptake& ^{14}C uptake &bacterial production.	ESA ESA ESA ESA ESA ESA	DRI
Nutrients Nutrients (NO ₃ , NO ₂ , NH ₄ , Si) Biogenic Si Si isotopes	LOCGE LOCGE MRAC	DRI
SW parameters (3 depths: interface, ML, under ML) phytoplankton (speciation, biomass) bacteria (biomass) microzooplankton nutrients Organic matter Fe DMSP/O	ESA ESA ESA/LOCGE ESA/LOCGE ESA/LOCGE ESA/LOCGE GLACIOL	DRI

GLACIOL = Glaciology, Université Libre de Bruxelles (Be)
 ACE-CRC - Antarctic Climate and Ecosystems (Au)
 UCL = Inst. Georges Lemaître, Université Catholique de Louvain (Be)
 DRI = Desert Research Institute (US)
 UTSA = University of Texas, San Antonio (US)
 CRREL = Cold Regions Research Engineering Laboratory (US)
 COU = Chemical Oceanography Unit, Université de Liège (Be)
 O&F = Ocean and Fisheries (Can)
 CEOS = Center of Earth Observation Sciences, University of Manitoba (Can)
 LDEO = Lamont Doherty Earth Observatory (US)
 ESA = Ecology of Aquatic Systems (Be)
 LOCGE = Laboratory of Chemical Oceanography and water Geochemistry, ULB (Be)
 DSTE = Department of Earth and Environmental Sciences, ULB (Be)
 MRAC = Musée Royal d'Afrique Centrale (Be)