

Meta Data Report	
PI:	Lee
Person(s) filing report (if different than PI):	Lubac
Operation description (be verbose):	Collection of data at each CTD and optical cast including measurements of uncalibrated above water radiance and radiance reflected by a "grey-card" using a handheld spectral radiometer, volume scattering function (VSF) of seawater surface using Multispectral Volume Scattering Metter, and aerosol optical density using a sunphotometer. 3 sets of 1 "grey-card" radiance measurement, 3 uncalibrated sea surface radiances, and 1 uncalibrated sky radiance were used to calculate remote sensing reflectance. The particulate scattering and backscattering coefficient were computed by integration the VSF over the whole and half range of scattering angle, respectively. These data will be used to improve the estimation/modelling of primary production in the Southern Ocean and to refine remote sensing algorithms for water's optical properties for this area.
Start Time (hh:mm:ss, UTC):	14:00:00
Start Date (dd/mm/yy; UTC):	11-Mar-08
Start latitude (signed, decimal):	-50.7648
Start longitude (signed, decimal):	-38.47
Event-log event number (if applicable)	
Expected operation duration:	Duration of cruise at each CTD and optics station
Expected initial data products:	Remote sensing reflectance, volume scattering function (from 0.5° to 179°, with a resolution of 0.3° at 443, 490, 510, 532, 555, 565, 590, and 620 nm), scattering coefficient, backscattering coefficient, and aerosol optical properties.
Expected distributed data products, and time-frame for distribution:	Data will be quality checked and further processed to products above within 6 months.
Other operation notes	NA
Post-operation comments/assessment	No VSF measurements after the 03/26/08. MVSM don't work.
Operation Log	
Time, date	event
03/11/08 14:00:00	Optics Cast
03/12/08 13:00:00	Optics Cast
03/15/08 14:30:00	Optics Cast
03/16/08 14:10:00	Optics Cast
03/21/08 15:15:00	Optics Cast
03/22/08 13:08:00	Optics Cast
03/23/08 12:55:00	Optics Cast
03/24/08 13:14:00	Optics Cast
03/26/08 15:18:00	Optics Cast
03/27/08 15:16:00	Optics Cast
03/28/08 14:30:00	CTD Cast
03/30/08 17:15:00	Optics Cast
03/31/08 14:30:00	CTD Cast
04/01/08 15:05:00	Optics Cast
04/02/08 13:30:00	CTD Cast
04/03/08 15:10:00	Optics Cast
04/04/08 15:01:00	Optics Cast