CTD Data Documentation, Meteor Cruise No. 32 Leg 3

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2. Introduction

The Meteor cruise 32 Leg 3 started at Muscat/Oman 05.05.1995 and ended at Mahe / Seychelles 05.06.1995. Three main drift studies were carried out, all along 65 deg E. The areas of interest were 18deg N, 10deg N and 3degN.
Obvious outliners and spikes have been removed from the downward profile. Data were monotonized and onto 1db steps reduced.
The temperature sensor was not calibrated because it is as good as the reverse thermometer, so no objective temperature calibration could be applied onto the data.

3 Instrument specification

Gear: CTD, Neil Brown, Mark III
Resolution: Temperature 0.5mK,
Pressure 0.1dbar,
Conductivity 1mS
Accurancy: Temperature , 0.3 mK,
Pressure , 6.5dbar,
Conductivity , 5 mS

4 Salinity calibration and quality

Salinity was not calibrated because of the absence of water bottle samples.

5 Calibration of flourescence

The check of the chlorophyll data for calibration of the fluorescense signal has shown that the chlorophyll signal was dispersed by the water bottle samples over a range of several meters. It was not possible to identify the chlorophyll maximum in a proper way, so these data have not been corrected or calibrated.
The signal dispersion seems to be a problem of the Niskin Water bottles in combination with a too short period of adaptation.