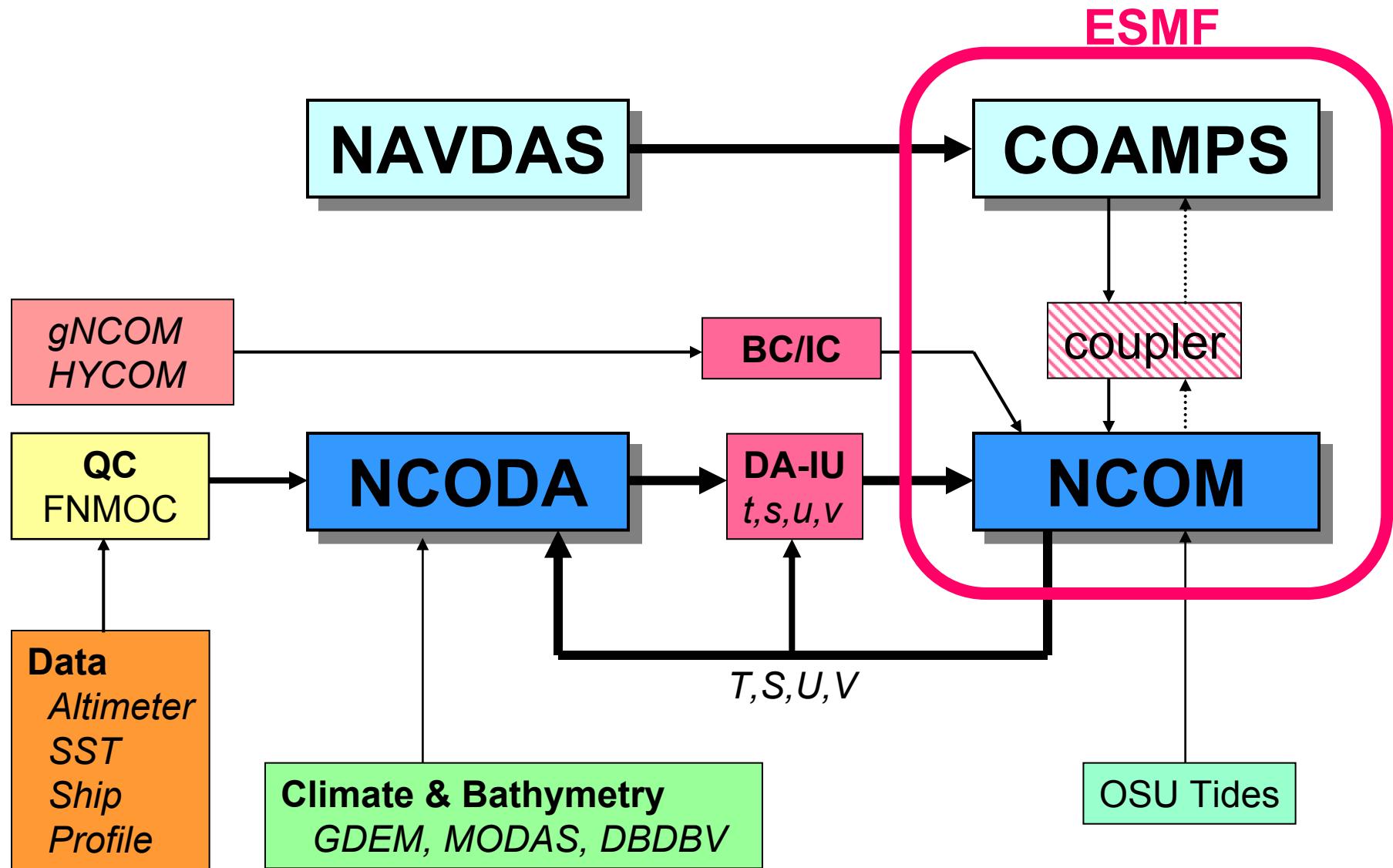


HYCOM Initial/Boundary Conditions for Coupled COAMPS/NCOM

6.2 HYCOM

PI: Julie Pullen
Paul May

COAMPS/NCOM-OnScene



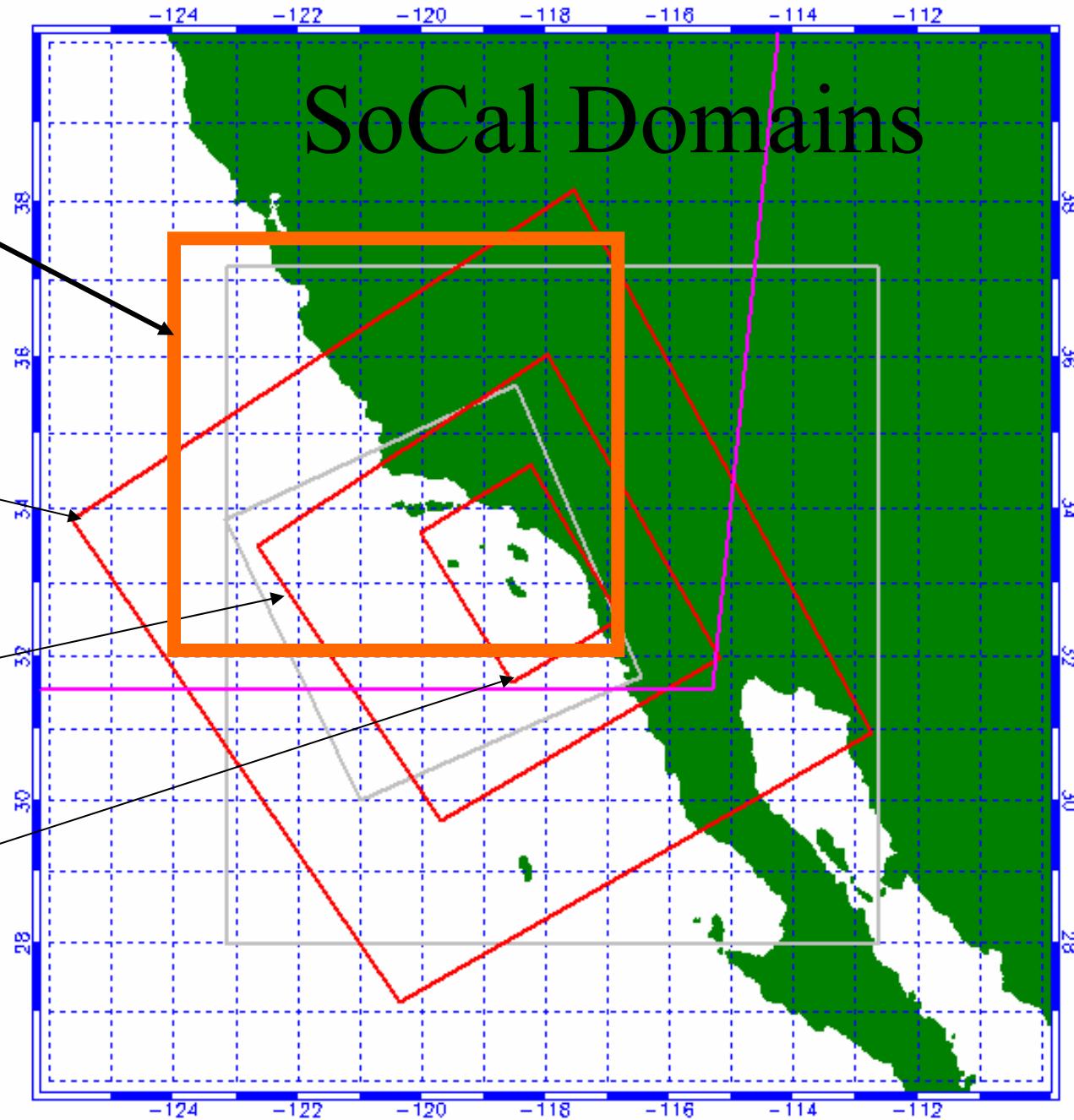
SoCal Domains

COAMPS 9-km
NCOM 3-km

COAMPS-OS
15-km

COAMPS-OS
NCOM
5-km

NCOM
2-km



COAMPS-OS® Map Projection Panel

COAMPS-OS® GUI USER - coamps PROJECT - Agrib Project Classification - UNCLASSIFIED (U) Data Classification - ...

NRL COAMPS-OS®

COAMPS-OS® GUI USER - coamps PROJECT - Agrib Project Classification - UNCLASSIFIED (U) Data Classification - ...

- Home Page - - System Monitor - - Scheduler -

COAMPS® Control Panel

Main Security Map Projection Forecast Nowcast

Location Positioning Options

Grid Section

Mesh #	+	X-Axis	-	+	Y-Axis	-	Spacing	Parent
1	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	45.00	<input type="button" value="▼"/>
2	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	15.00	1 <input type="button" value="▼"/>
3	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	5.00	2 <input type="button" value="▼"/>
4	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	1.67	3 <input type="button" value="▼"/>
5	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	<input type="button" value="▲"/>	61	<input type="button" value="▼"/>	.56	4 <input type="button" value="▼"/>

Mesh Positioning

Disable Auto Centering

	X-Axis	Y-Axis
Mesh 1	<input type="button" value="◀"/> <input type="button" value="▶"/> <input type="button" value="▲"/> <input type="button" value="▼"/>	<input type="button" value="◀"/> <input type="button" value="▶"/> <input type="button" value="▲"/> <input type="button" value="▼"/>
<input type="checkbox"/> Mesh 2 - Parent 1	<input type="button" value="◀"/> 21 <input type="button" value="▶"/>	<input type="button" value="◀"/> 21 <input type="button" value="▶"/>
<input type="checkbox"/> Mesh 3	<input type="button" value="◀"/> 0 <input type="button" value="▶"/>	<input type="button" value="◀"/> 0 <input type="button" value="▶"/>
<input type="checkbox"/> Mesh 4	<input type="button" value="◀"/> 0 <input type="button" value="▶"/>	<input type="button" value="◀"/> 0 <input type="button" value="▶"/>
<input type="checkbox"/> Mesh 5	<input type="button" value="◀"/> 0 <input type="button" value="▶"/>	<input type="button" value="◀"/> 21 <input type="button" value="▶"/>

Map Options

Map Projection Panel

Latitude: -36.186 Degrees: 36 11 09.60

Longitude: -137.853 Degrees: 137 51 10.80

Zoom In

Zoom Out

Runtime Estimate: 0.57 hours Output Size: 604 Mb Memory: NA
Max/Min Map Scale Factor: 1.06 / 0.87

Status Log

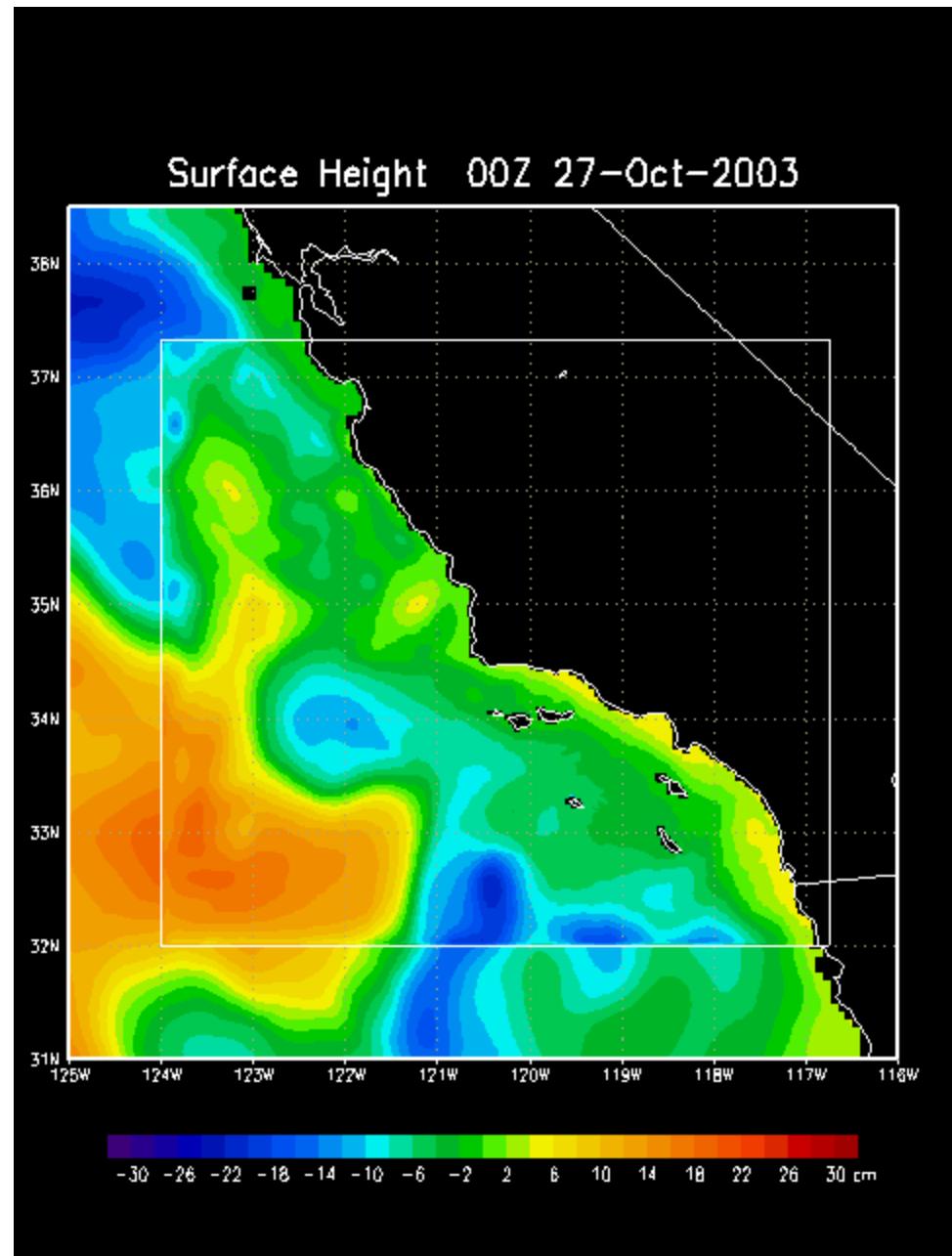
Map Projection Panel

* COAMPS and COAMPS-OS are registered trademarks of the Naval Research Laboratory.

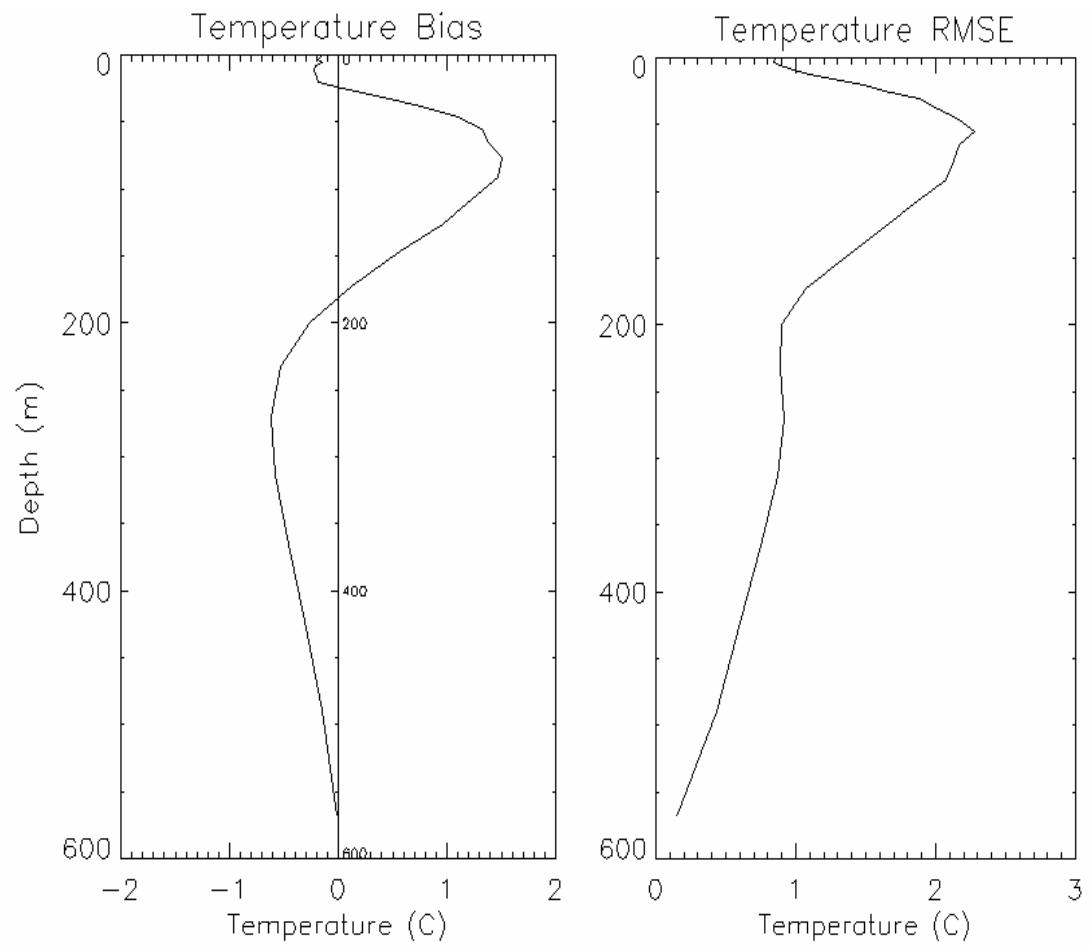
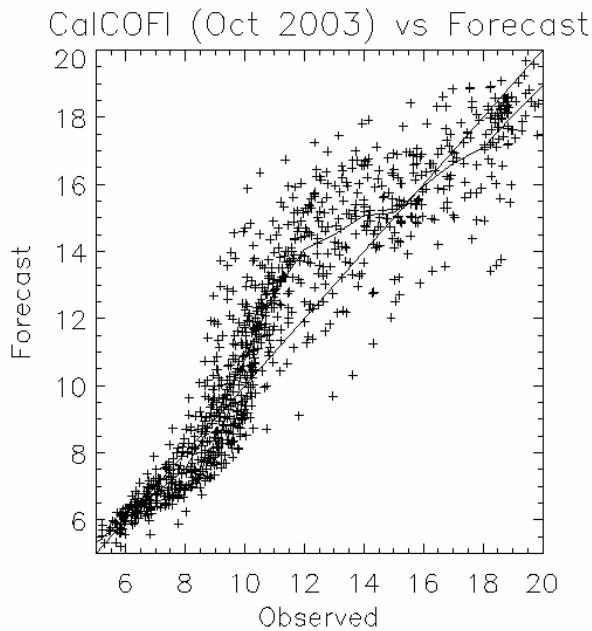
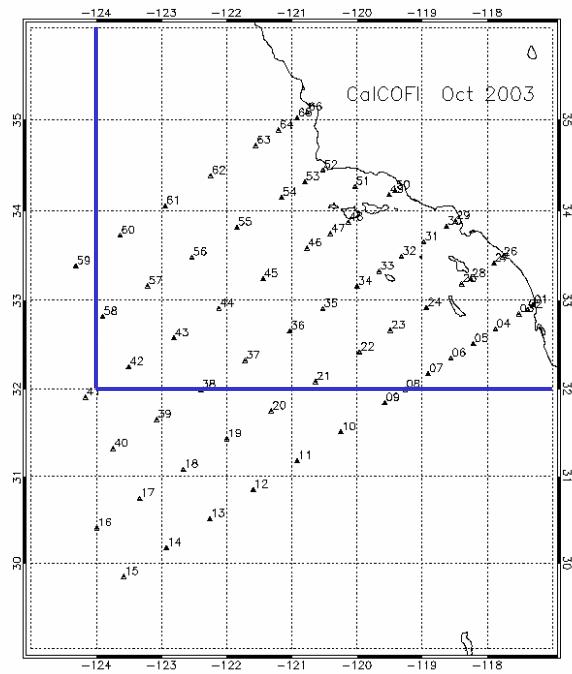
Nested NCOM with Data Assimilation and Global HYCOM BCs

NCOM (3-km)

- COAMPS (9-km) forcing
- Incremental Update DA
- Global HYCOM (5.3) bcs
- Oct-Nov 2003

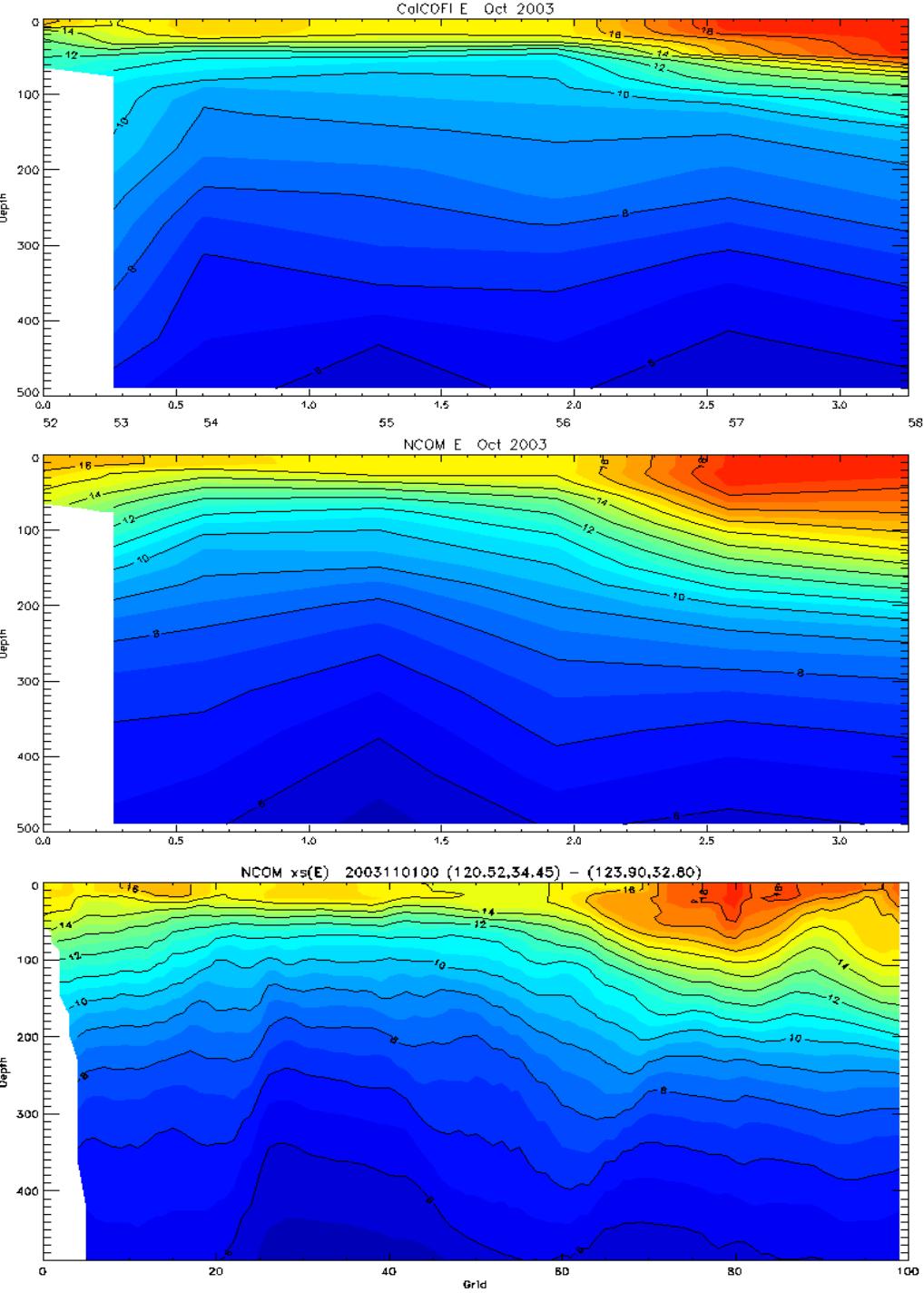
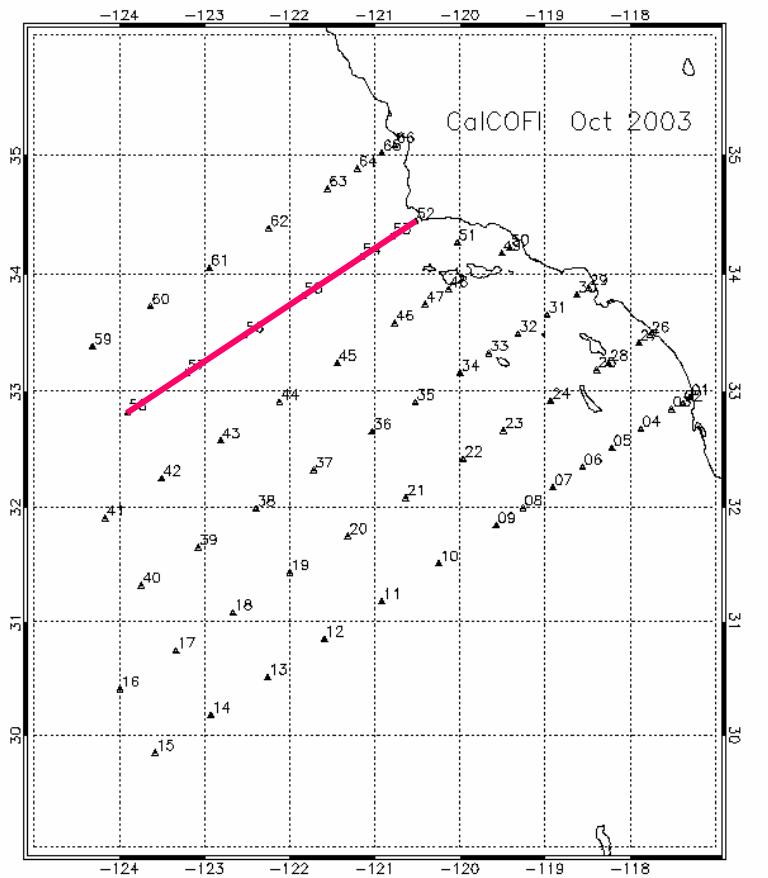


CalCOFI data comparison

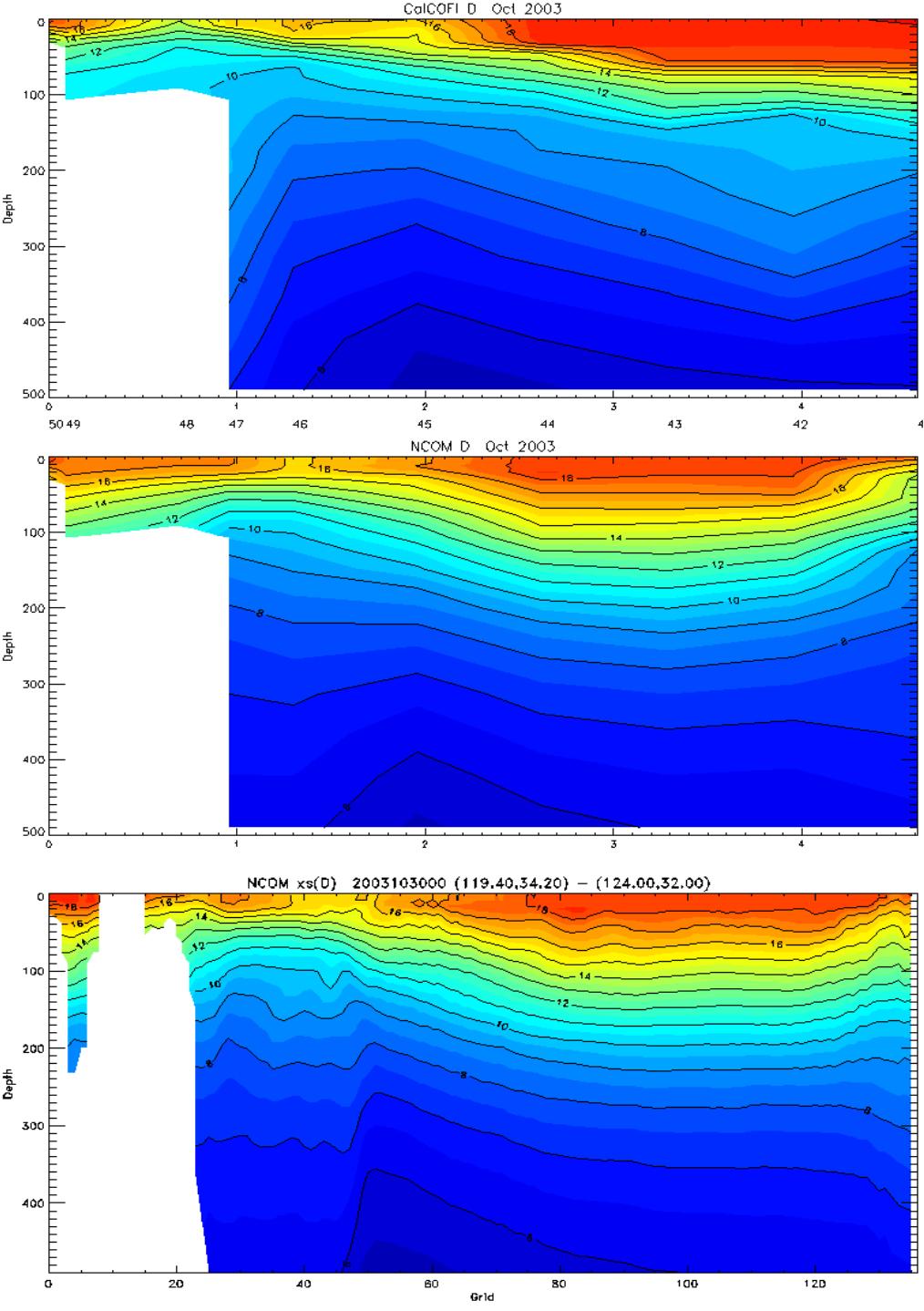
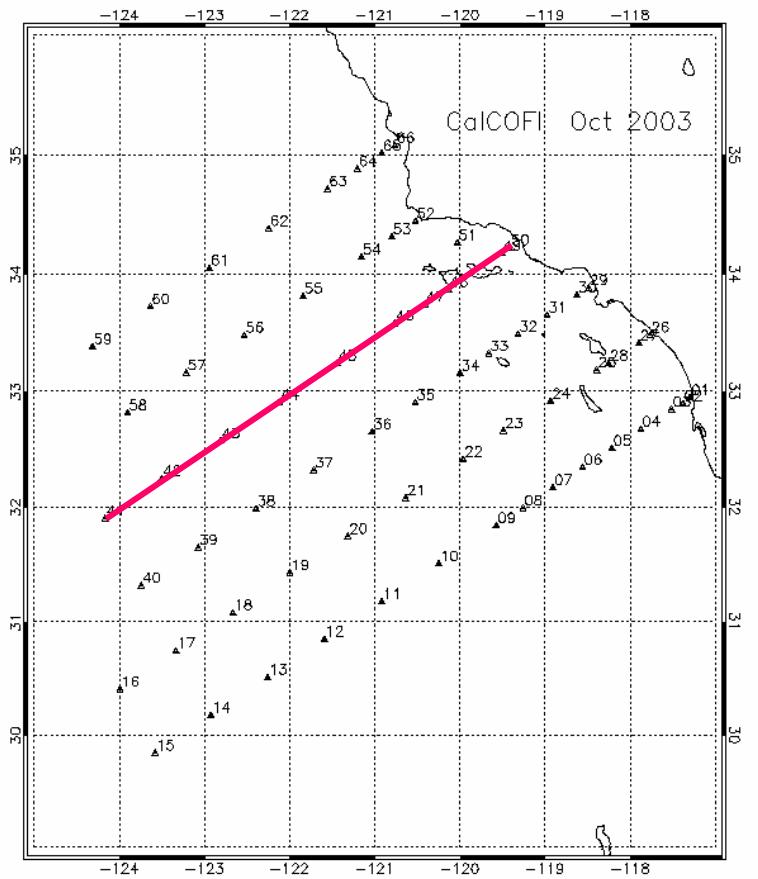


SoCal Nested NCOM errors

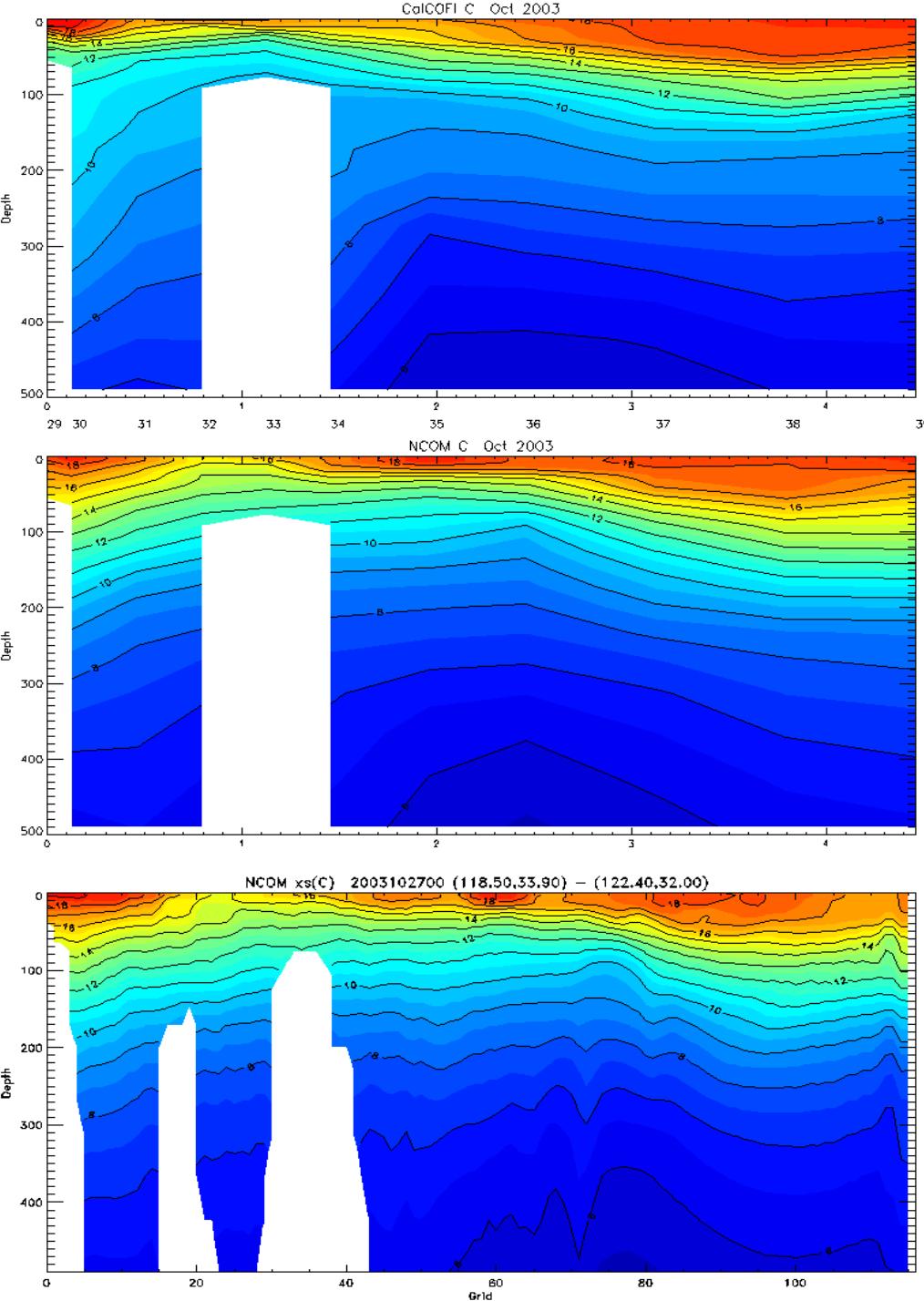
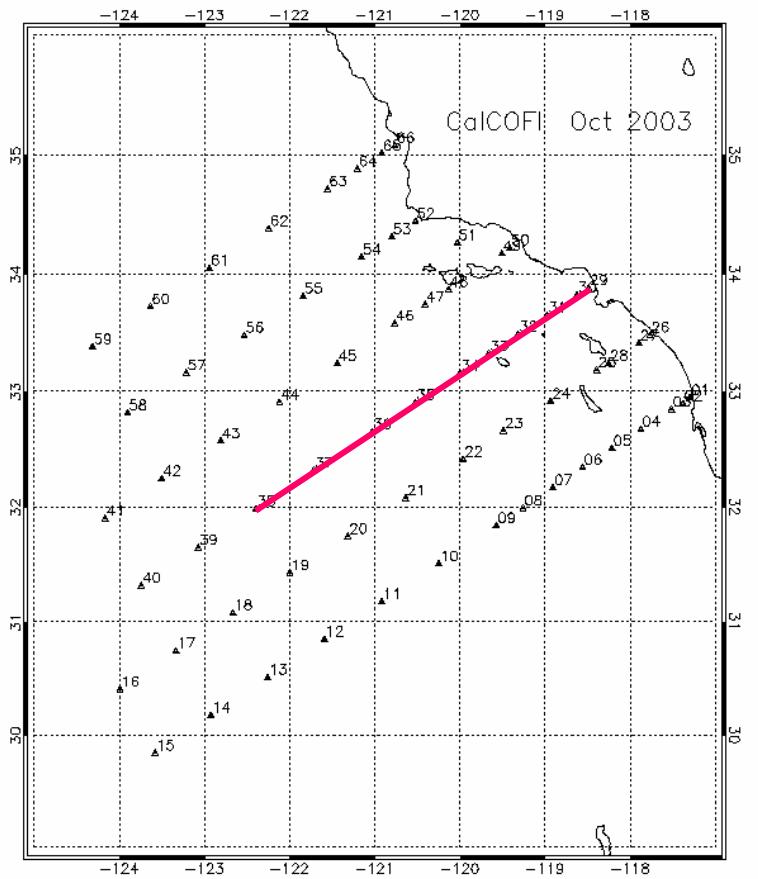
CalCOFI & NCOM Leg E XS



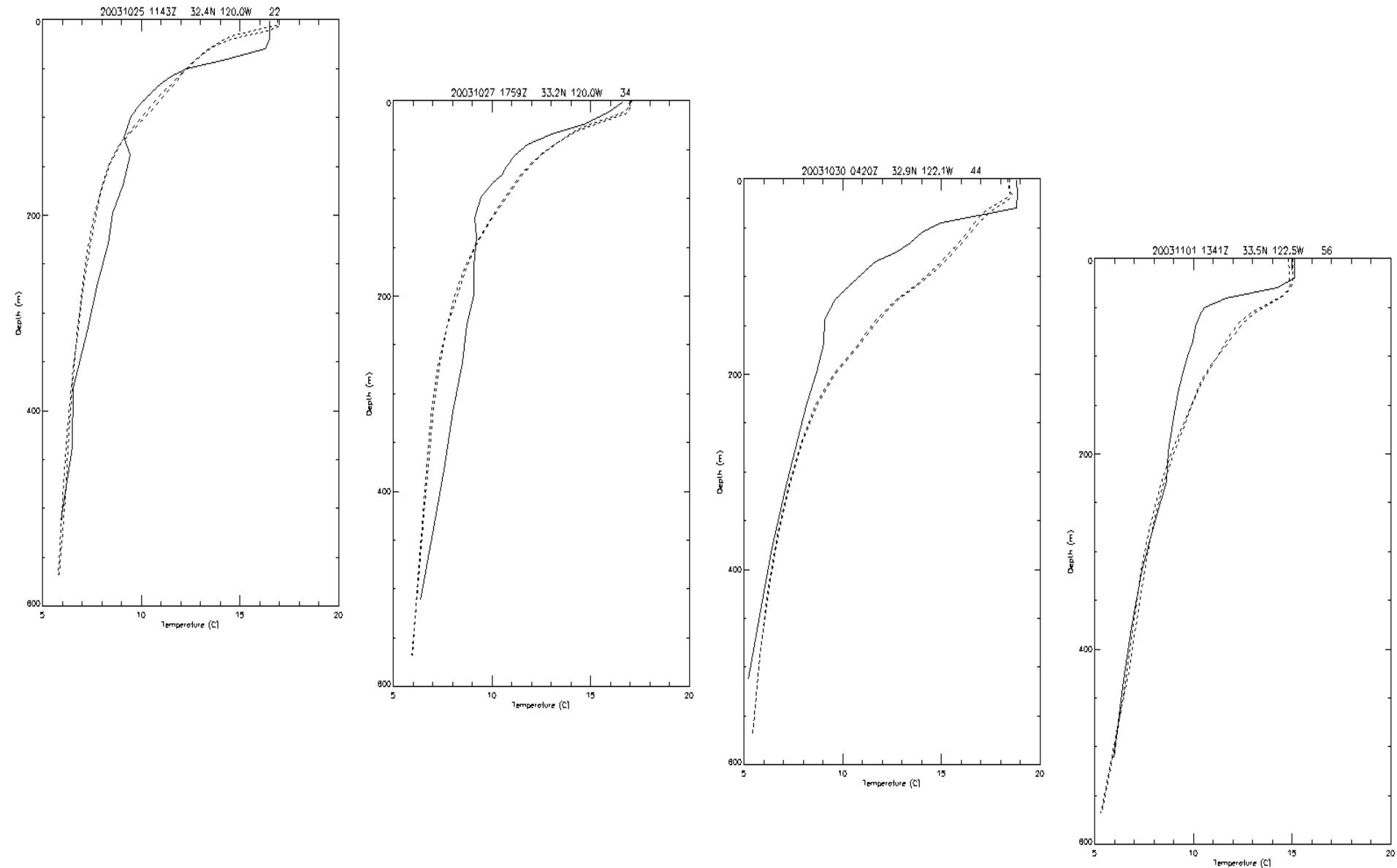
CalCOFI & NCOM Leg D XS



CalCOFI & NCOM Leg C XS

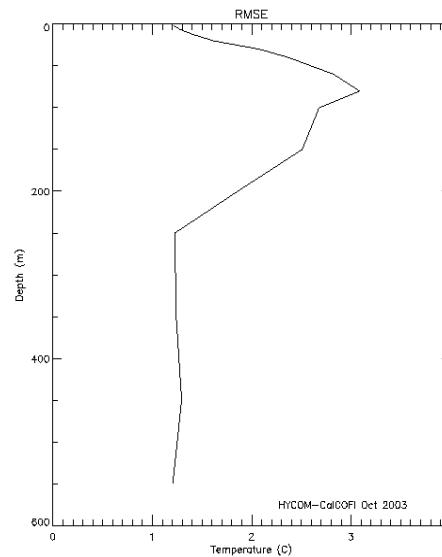
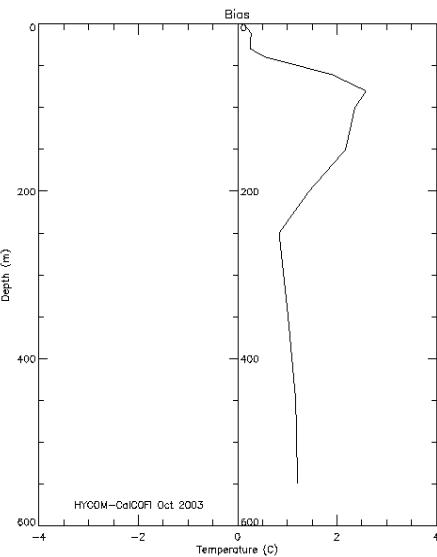


Selected Temperature Profiles

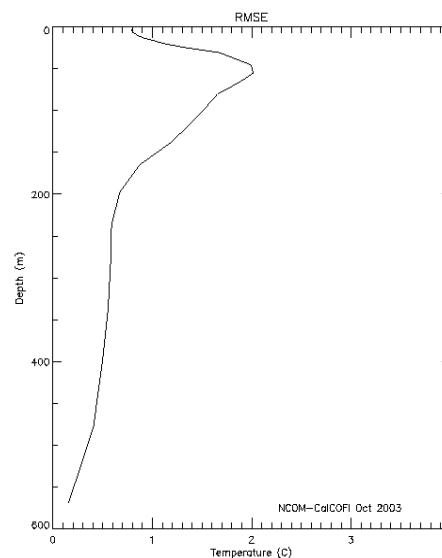
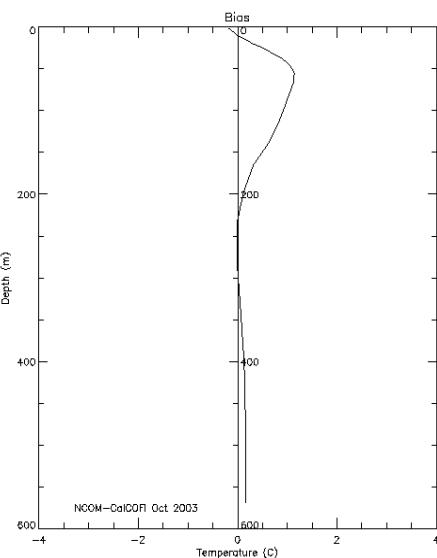


Initial/BC Temperature Errors (Oct 03)

Global
HYCOM



Global
NCOM

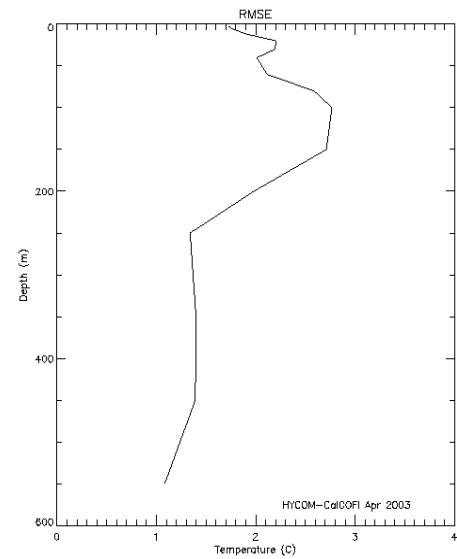
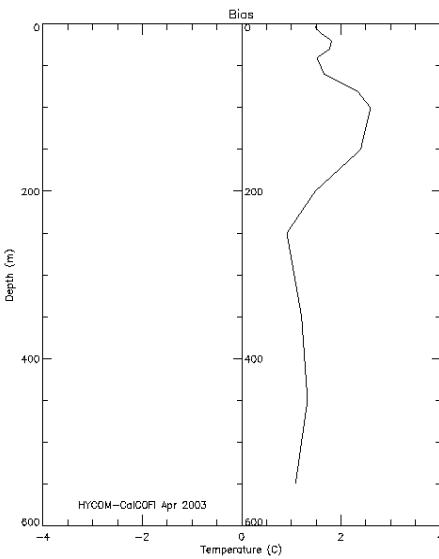


Bias

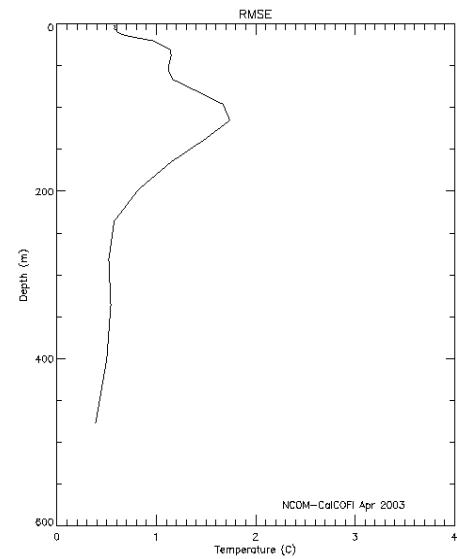
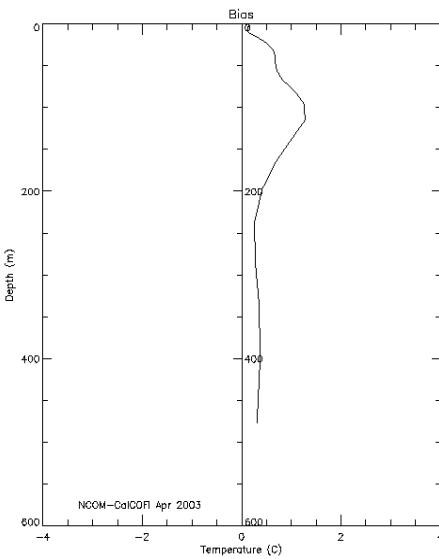
RMSE

Initial/BC Temperature Errors (Apr 03)

Global
HYCOM



Global
NCOM

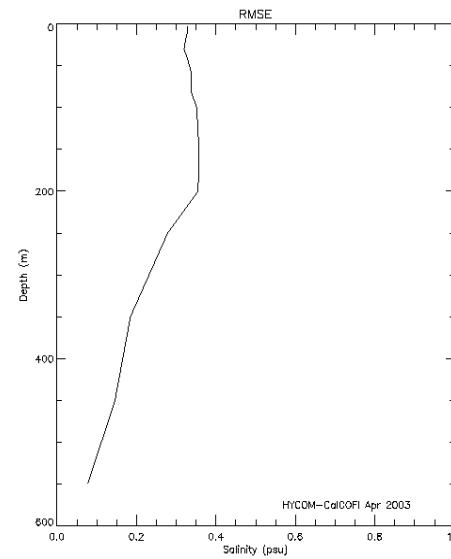
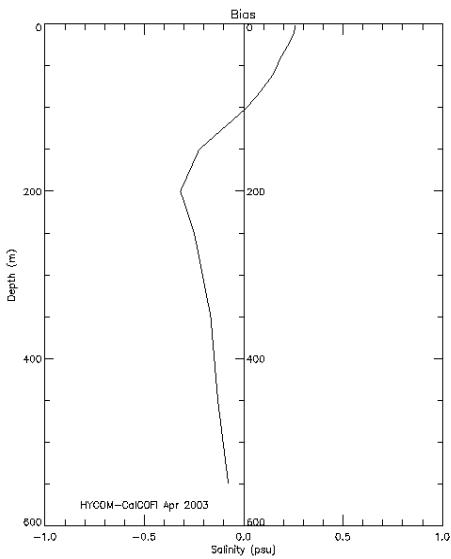


Bias

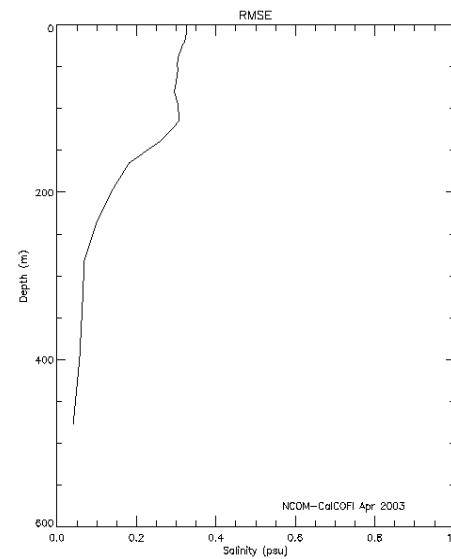
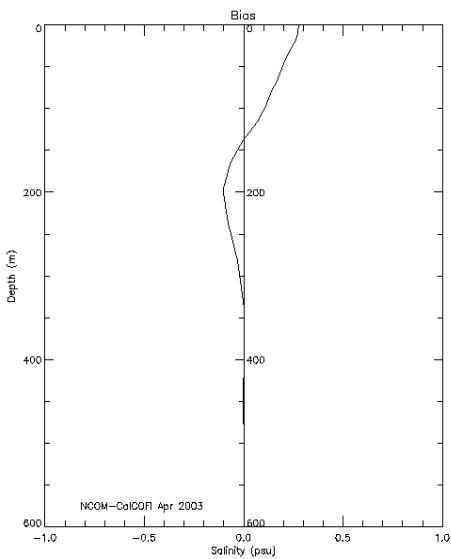
RMSE

Initial/BC Salinity Errors (Apr 03)

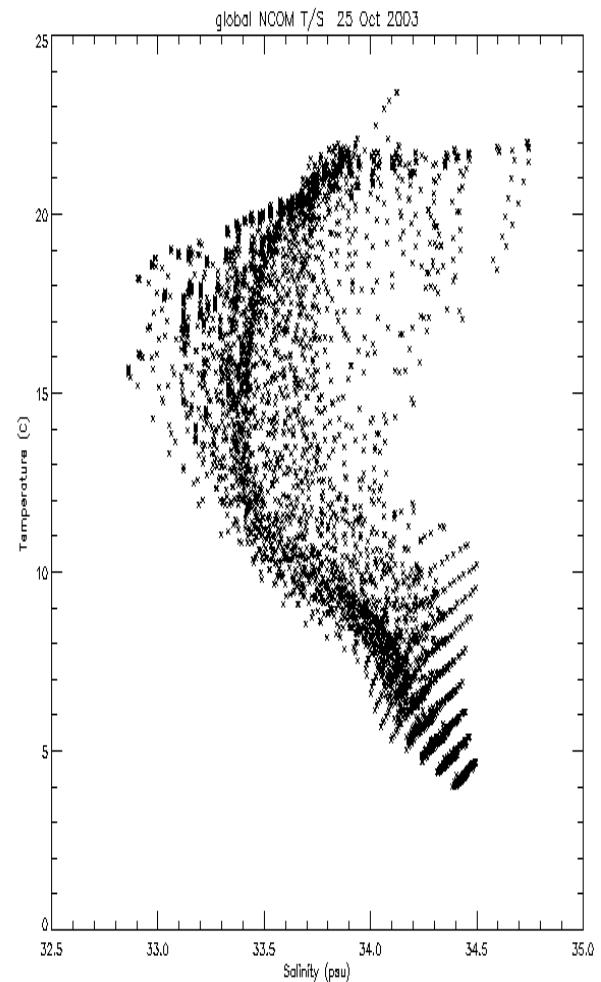
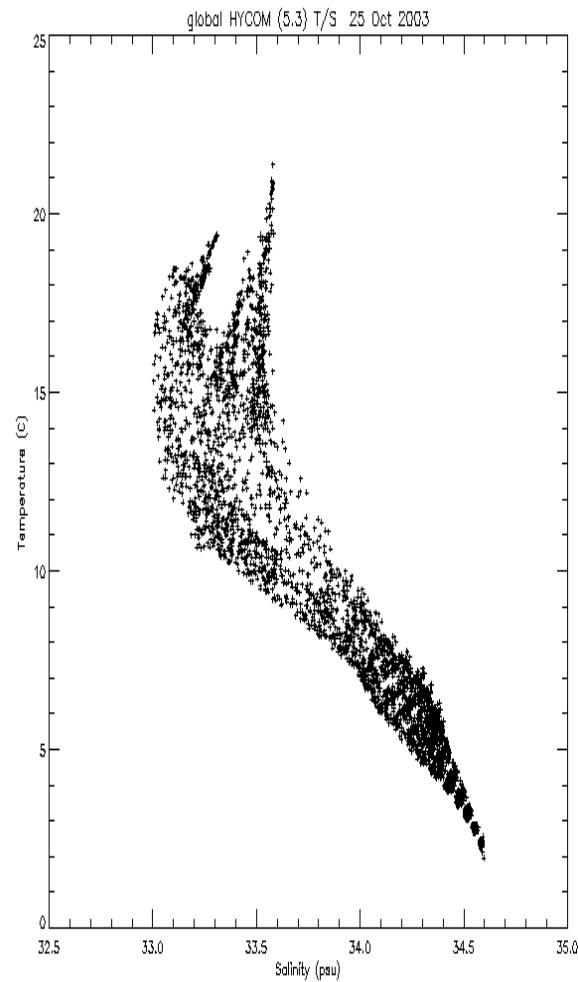
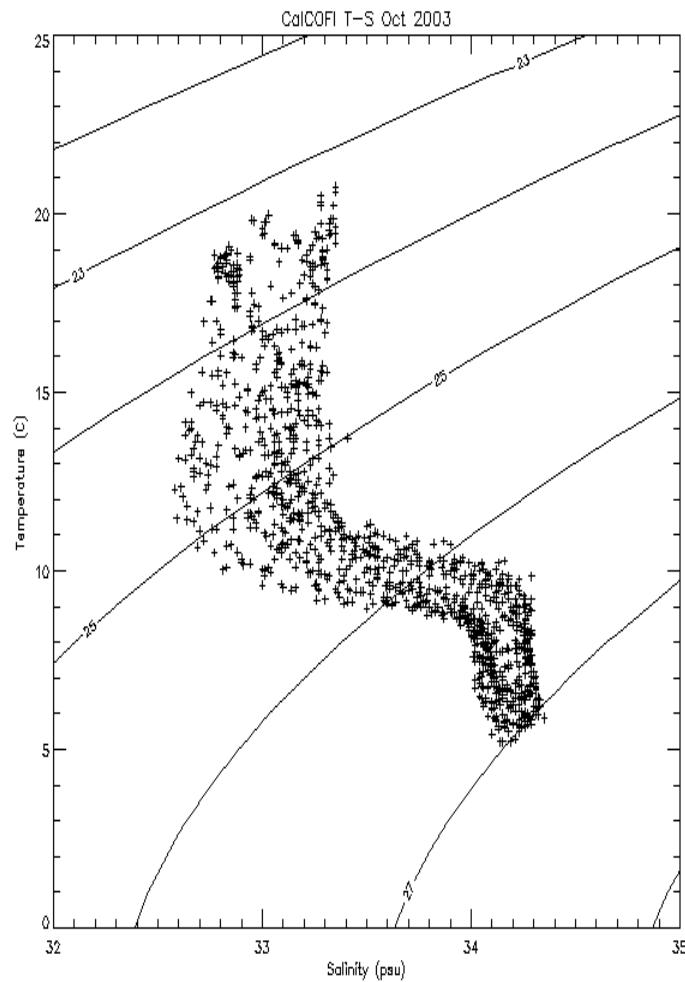
Global
HYCOM



Global
NCOM

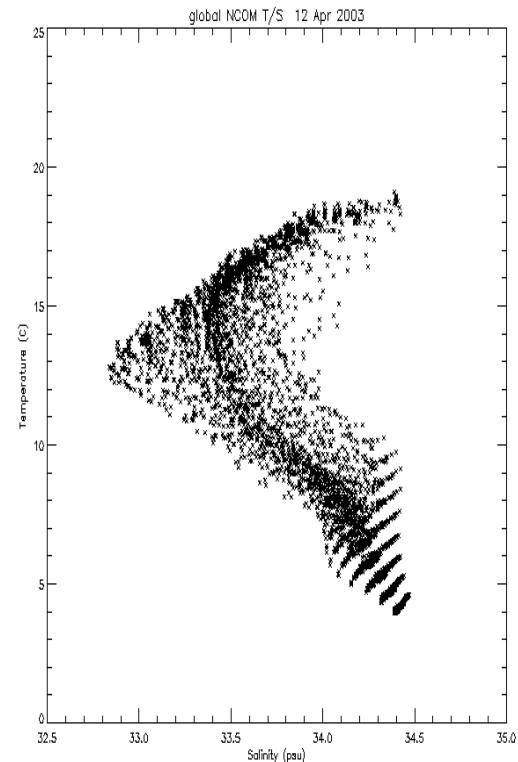
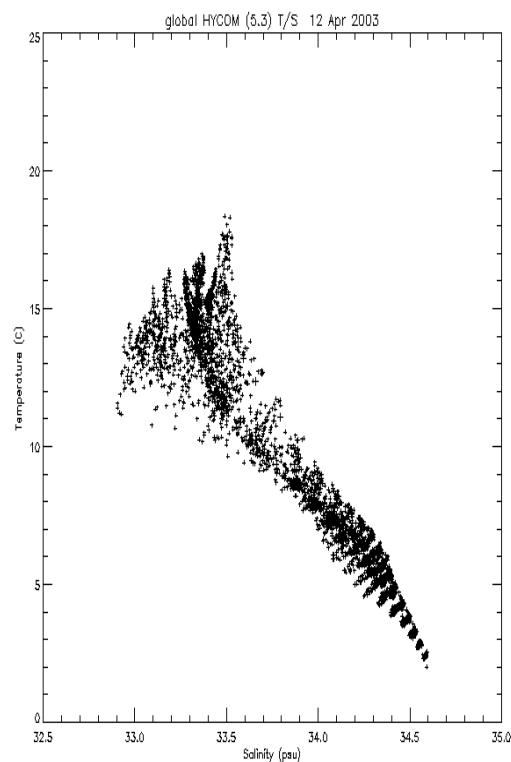
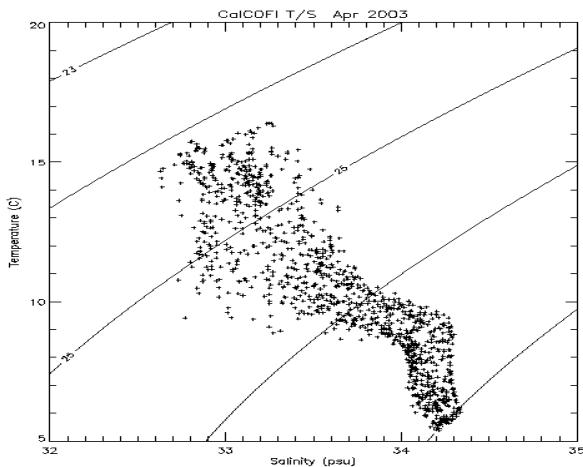


T/S October 2003



Temperature/Salinity Diagrams

April 2003



CalCOFI

Global
HYCOM

Global
NCOM

Plans

- Initial/Boundary Conditions
 - Global HYCOM with DA
 - Global NCOM
 - CCS (John Kindle)
- Data comparisons
- Fully Coupled COAMPS/NCOM