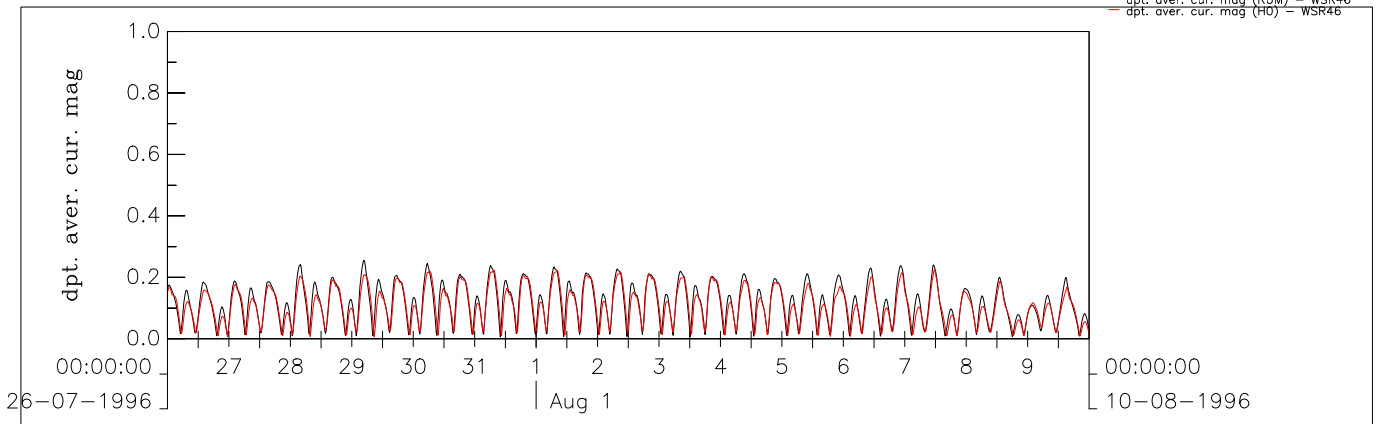
Appendix 5.2b

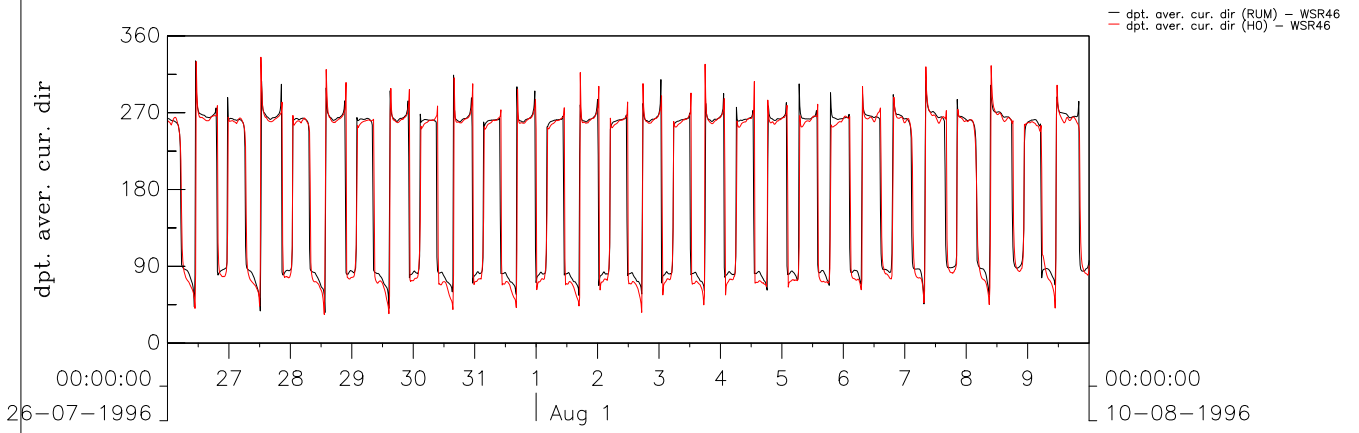
Validation Data of Refined Model

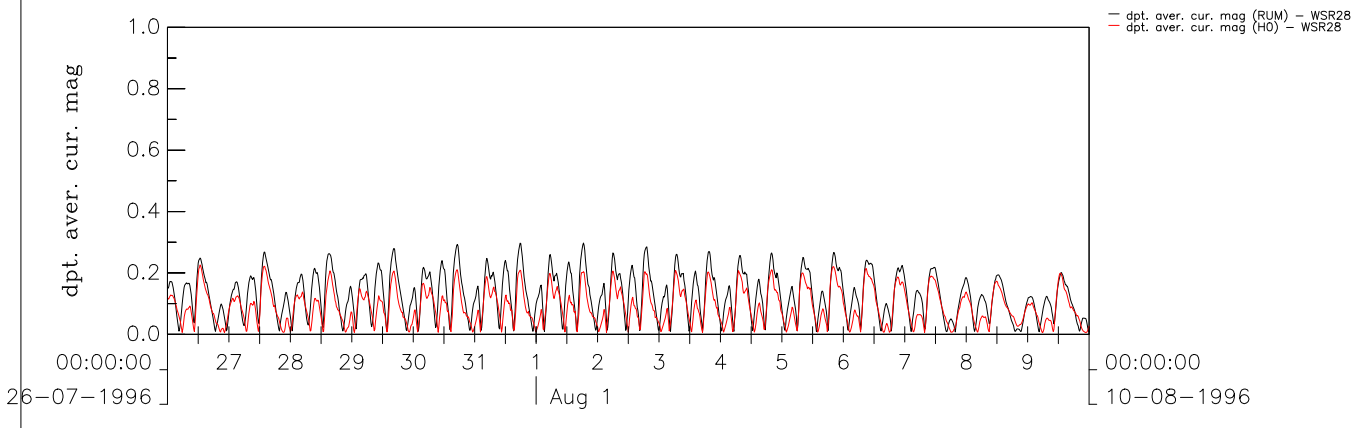
Base Scenario

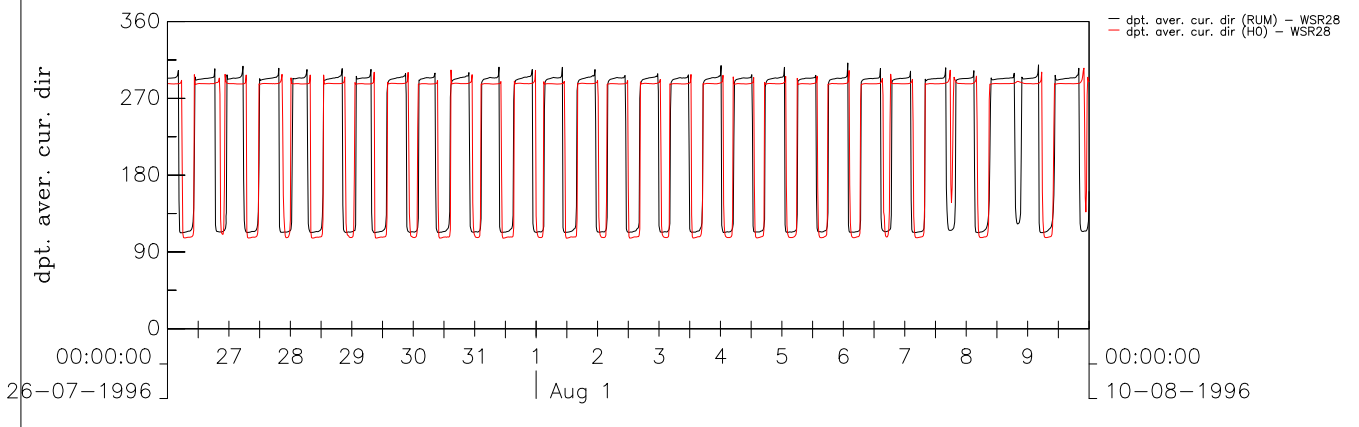
Drawing No.	Description
H0-D-CR-WSR 28 & 46	Base Scenario - validation of updated WHM against RUM on current directions and velocity (depth-averaged) at WSR 28 & 46 during dry season (upper: current velocity; lower: current directions)
H0-D-CR-WSR 06 & 41	Base Scenario - validation of updated WHM against RUM on current directions and velocity (depth-averaged) at WSR 06 & 41 during dry season (upper: current velocity; lower: current directions)
H0-D-AC2	Base Scenario- validation of updated WHM against RUM at Airport Channel 2 on accumulated flow & salinity flux during dry season (upper: accumulated flow; lower: total salinity flux)
H0-D-AC3	Base Scenario- validation of updated WHM against RUM at Airport Channel 3 on accumulated flow & salinity flux during dry season (upper: accumulated flow; lower: total salinity flux)
H0-D-AN	Base Scenario- validation of updated WHM against RUM at Airport North (Urmston Road) on accumulated flow & salinity flux during dry season (upper: accumulated flow; lower: total salinity flux)
H0-D-MW	Base Scenario- validation of updated WHM against RUM at Ma Wan Channel on accumulated flow & salinity flux during dry season (upper: accumulated flow; lower: total salinity flux)
H0-D-VV-FT	Base Scenario- validation of updated WHM against RUM on velocity vector during flood tide, dry season (upper: surface layer; lower: bottom layer)
H0-D-VV-ET	Base Scenario- validation of updated WHM against RUM on velocity vector during ebb tide, dry season (upper: surface layer; lower: bottom layer)
H0-D-SL	Base Scenario- validation of updated WHM against RUM on salinity, dry season (upper: surface layer; lower: bottom layer)
H0-W-CR-WSR 28 & 46	Base Scenario - validation of updated WHM against RUM on current directions and velocity (depth-averaged) at WSR 22c & 27 during wet season (upper: current velocity; lower: current directions)
H0-W-CR-WSR 06 & 41	Base Scenario - validation of updated WHM against RUM on current directions and velocity (depth-averaged) at WSR 06 & 41 during wet season (upper: current velocity; lower: current directions)
H0-W-AC2	Base Scenario- validation of updated WHM against RUM at Airport Channel 2 on accumulated flow & salinity flux during wet season (upper: accumulated flow; lower: total salinity flux)

Drawing No.	Description
H0-W-AC3	Base Scenario- validation of updated WHM against RUM at Airport Channel 3 on accumulated flow & salinity flux during wet season (upper: accumulated flow; lower: total salinity flux)
H0-W-AN	Base Scenario- validation of updated WHM against RUM at Airport North (Urmston Road) on accumulated flow & salinity flux during wet season (upper: accumulated flow; lower: total salinity flux)
H0-W-MW	Base Scenario- validation of updated WHM against RUM at Ma Wan Channel on accumulated flow & salinity flux during wet season (upper: accumulated flow; lower: total salinity flux)
H0-W-VV-FT	Base Scenario- validation of updated WHM against RUM on velocity vector during flood tide, wet season (upper: surface layer; lower: bottom layer)
H0-W-VV-ET	Base Scenario- validation of updated WHM against RUM on velocity vector during ebb tide, wet season (upper: surface layer; lower: bottom layer)
H0-W-SL	Base Scenario- validation of updated WHM against RUM on salinity, wet season (upper: surface layer; lower: bottom layer)

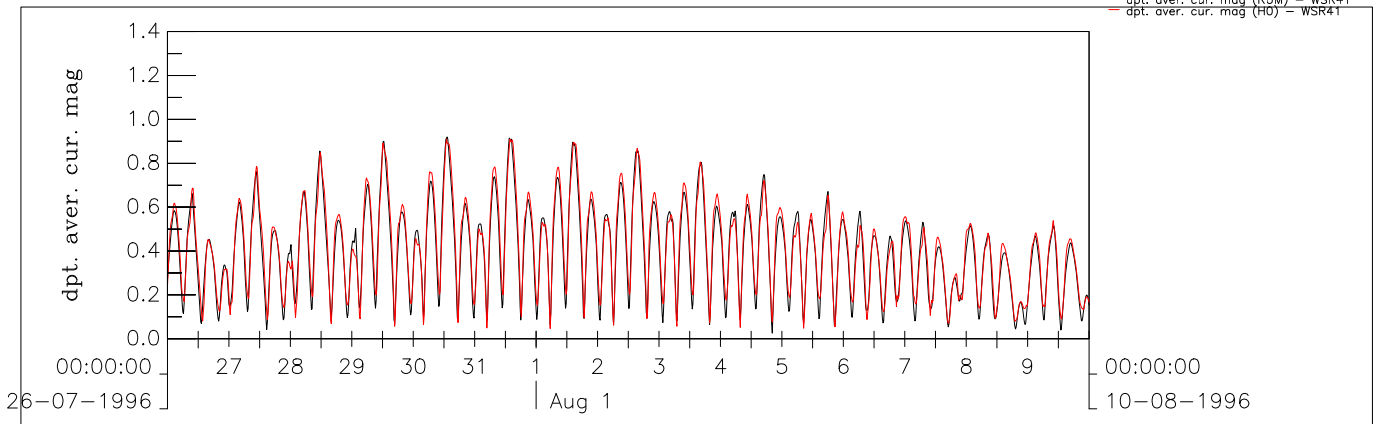


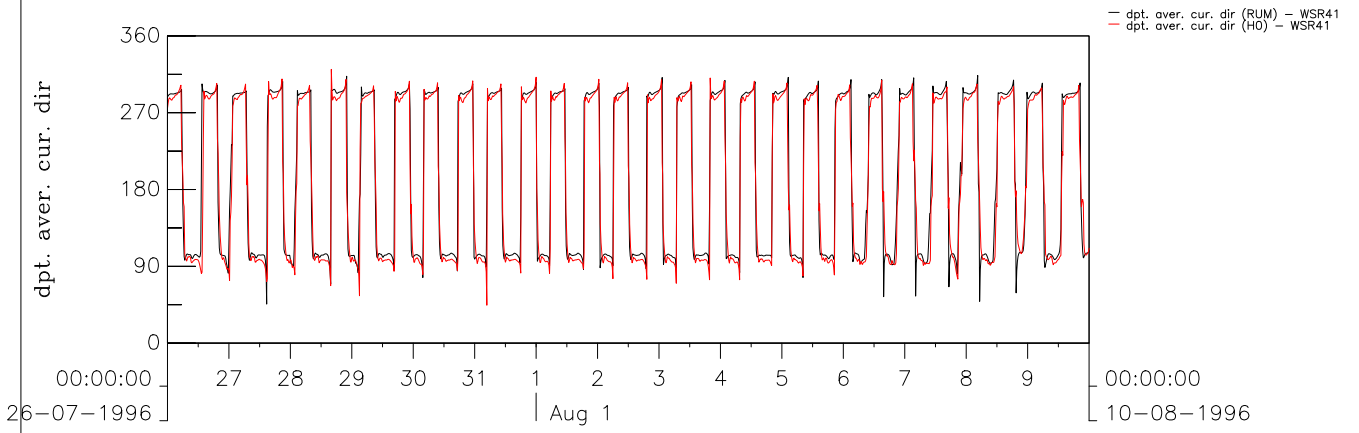


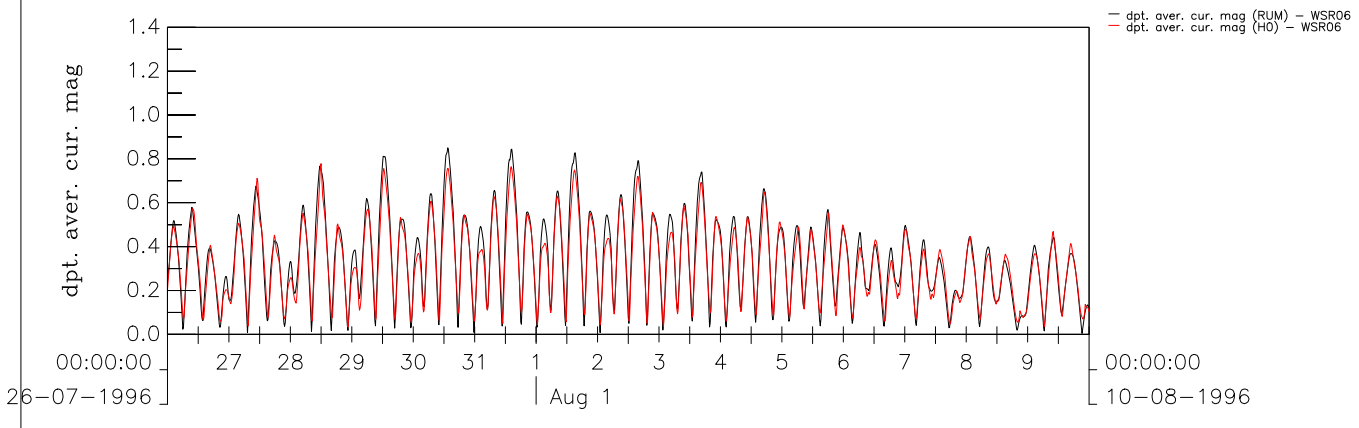


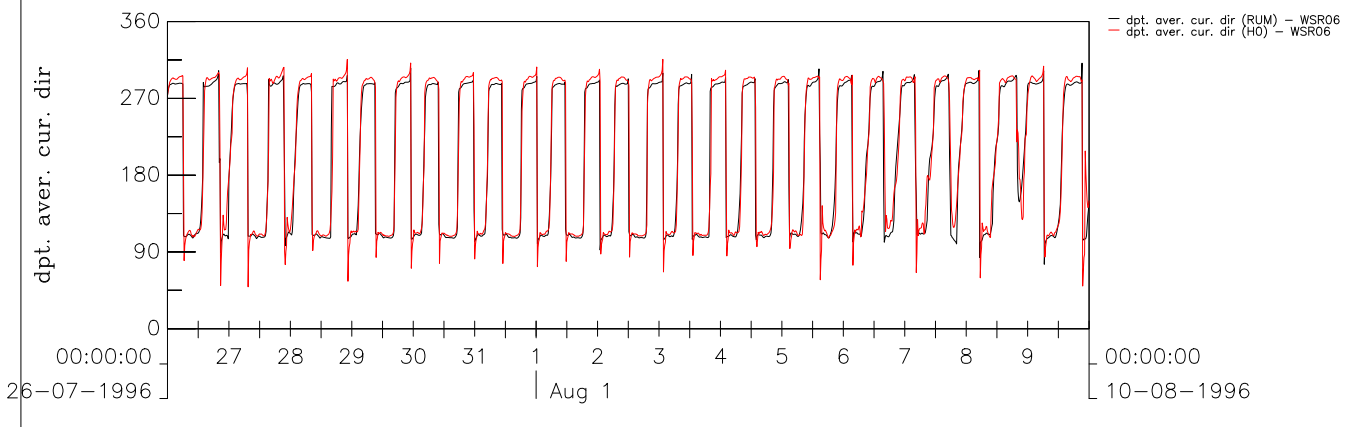


Current Velocity and Direction (Depth Average) Upper: Current Velocity; Lower: Current Direction Red: H0 Scenario; Black: Regional Update Model	Dry Season	
	Drawing: H0-D-CR-WSR 28&46	
ARUP		

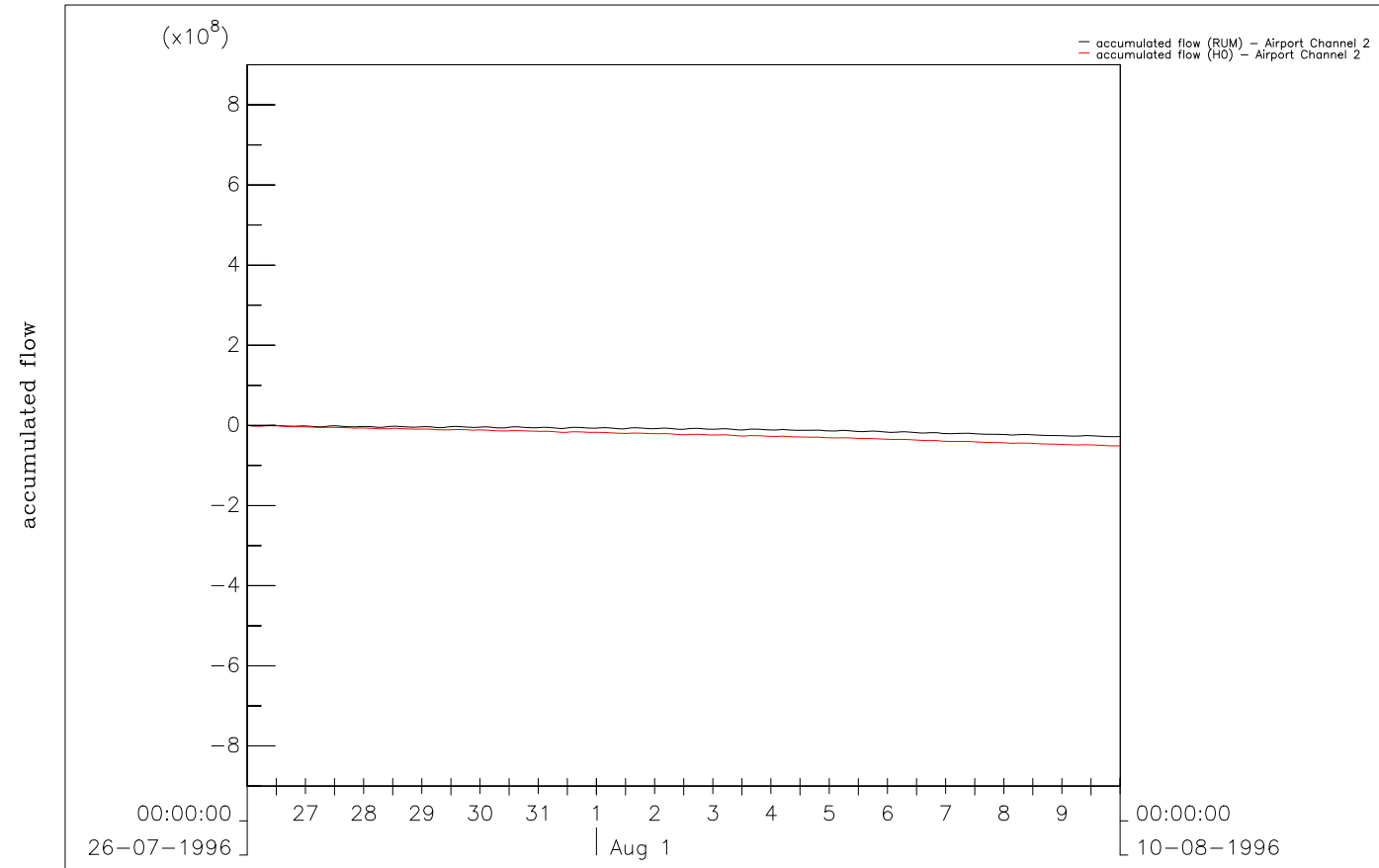


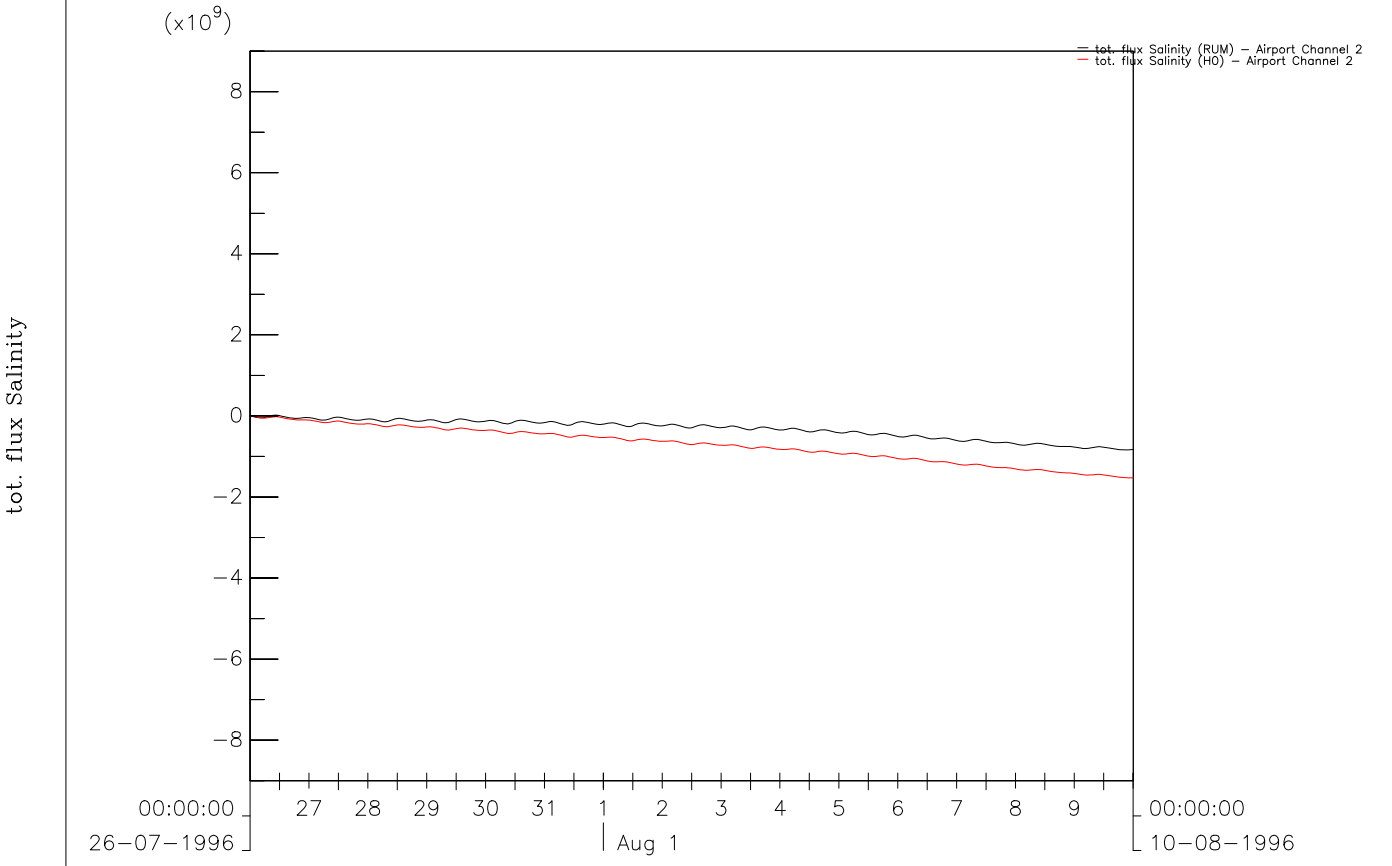






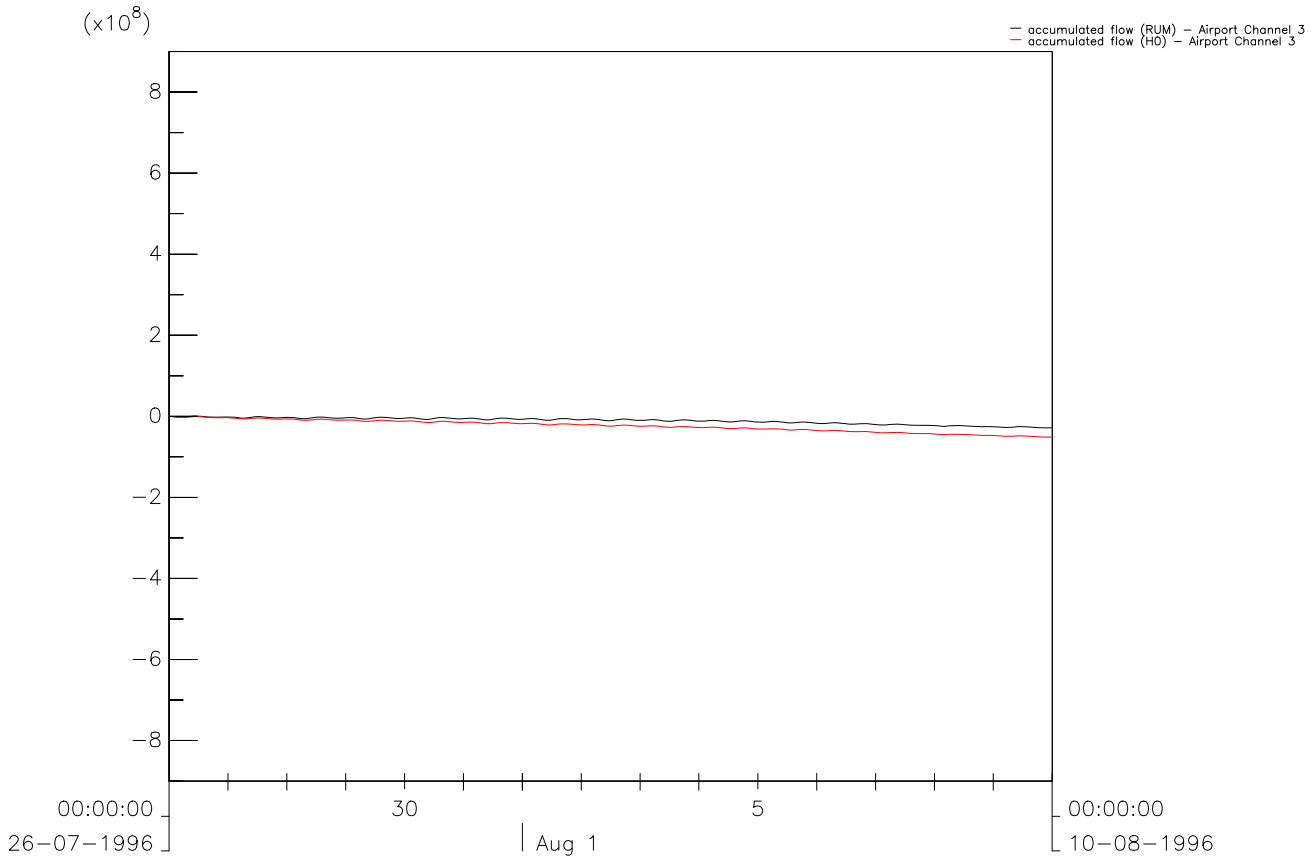
Current Velocity and Direction (Depth Average) Upper: Current Velocity; Lower: Current Direction Red: H0 Scenario; Black: Regional Update Model	Dry Season	
	Drawing: H0-D-CR-WSR 06&41	
ARUP		



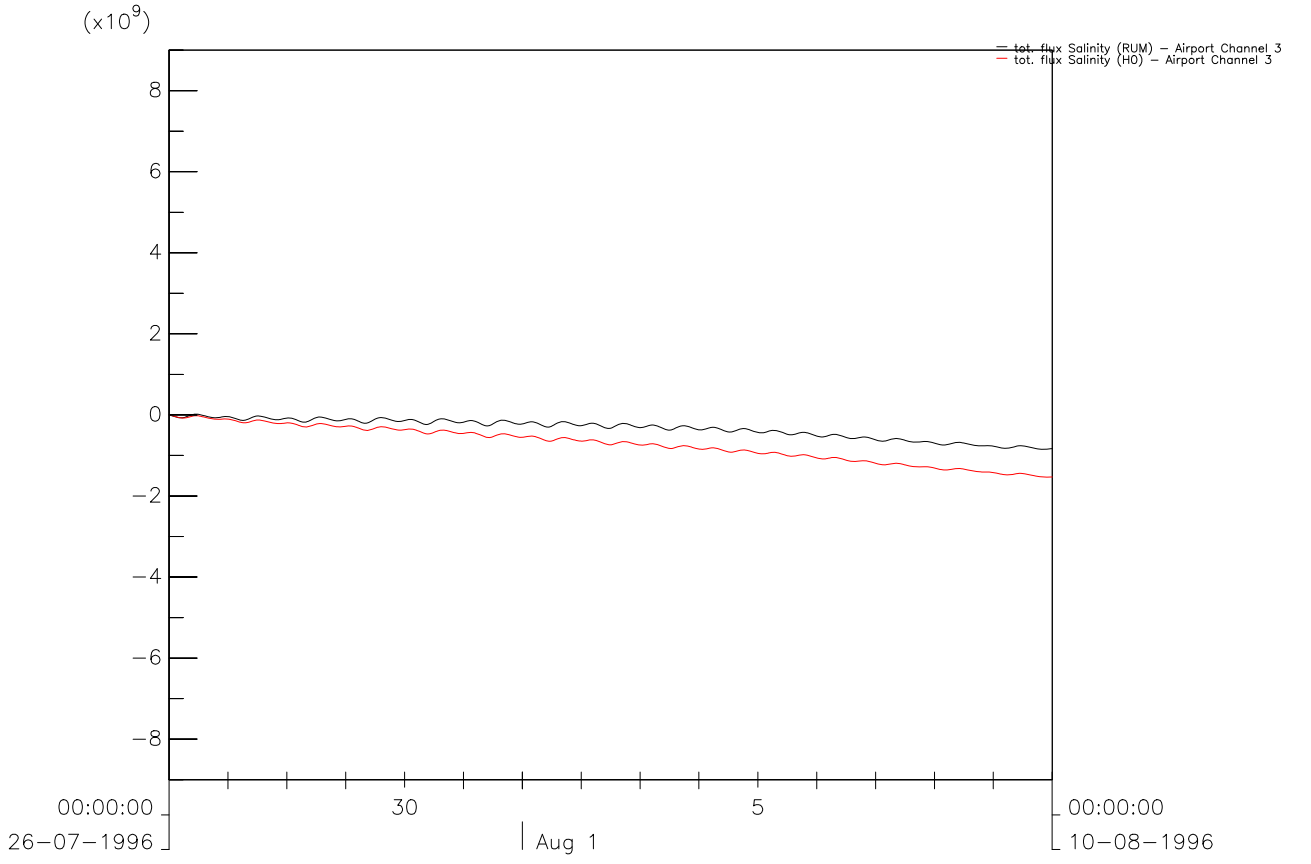


Airport Channel 2 Upper: Accumulated Flow; Lower: Total Salinity Flux Red: H0 Scenario; Black: Regional Update Model	Dry Season	
	Drawing: H0−D−AC2	
ARUP		

accumulated flow

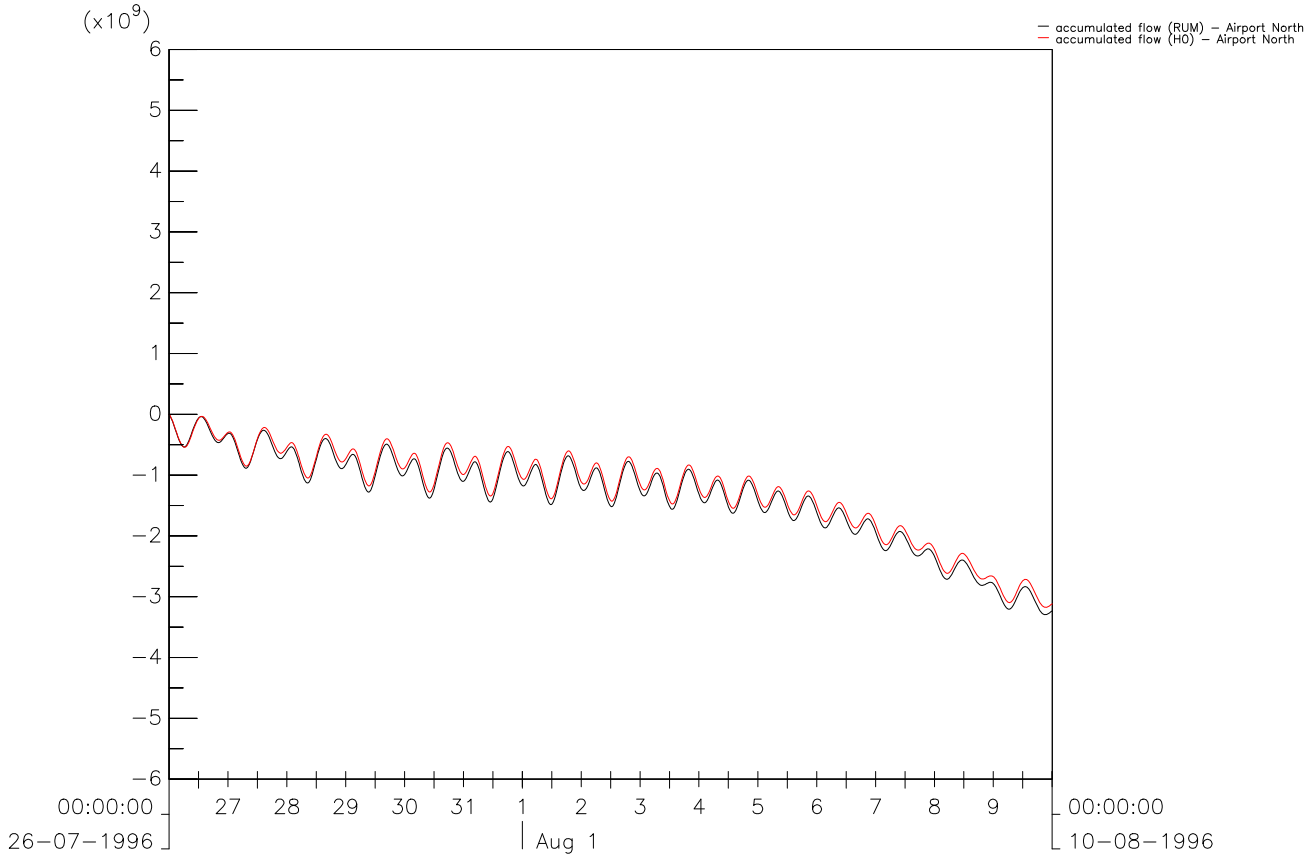


tot. flux Salinity

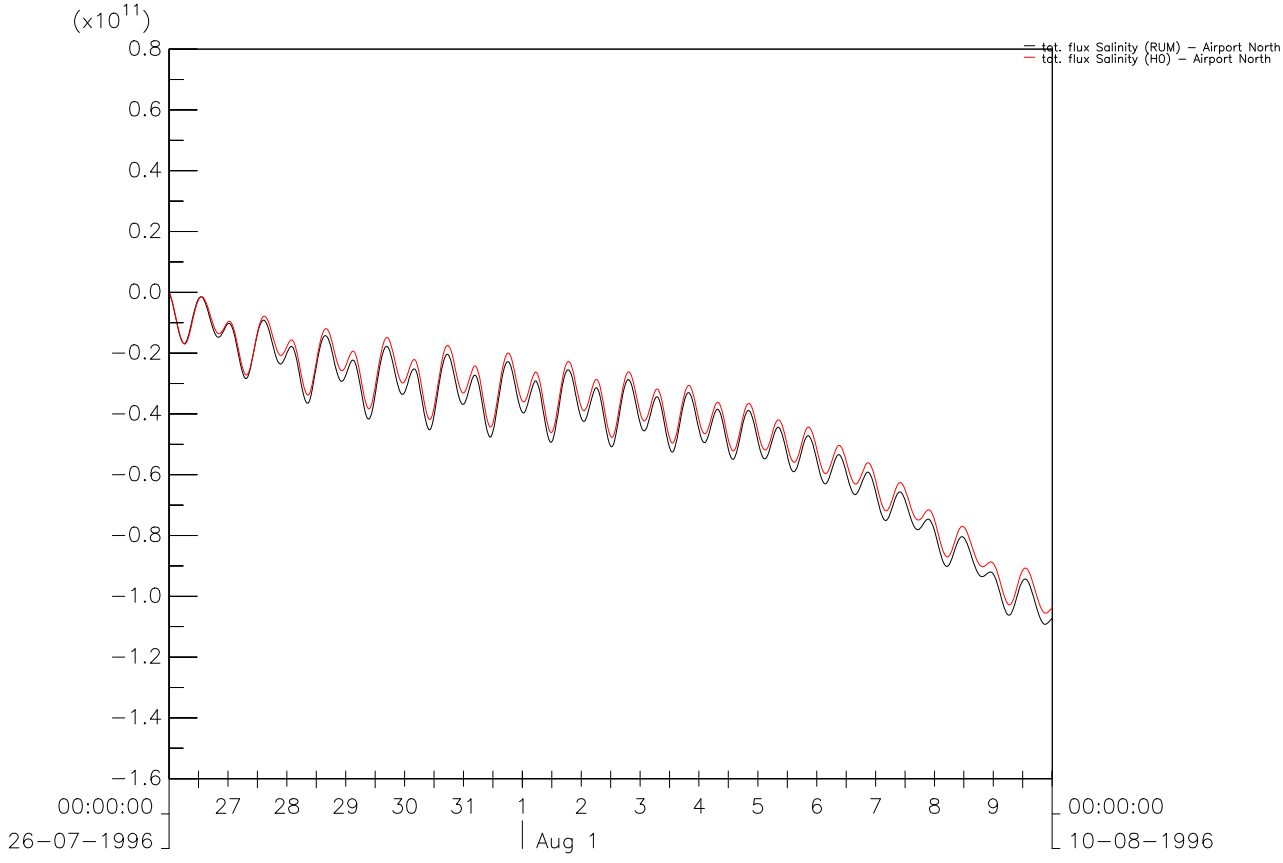


Airport Channel 3 Upper: Accumulated Flow; Lower: Total Salinity Flux Red: H0 Scenario; Black: Regional Update Model	Dry Season	
	Drawing: H0−D−AC3	
ARUP		

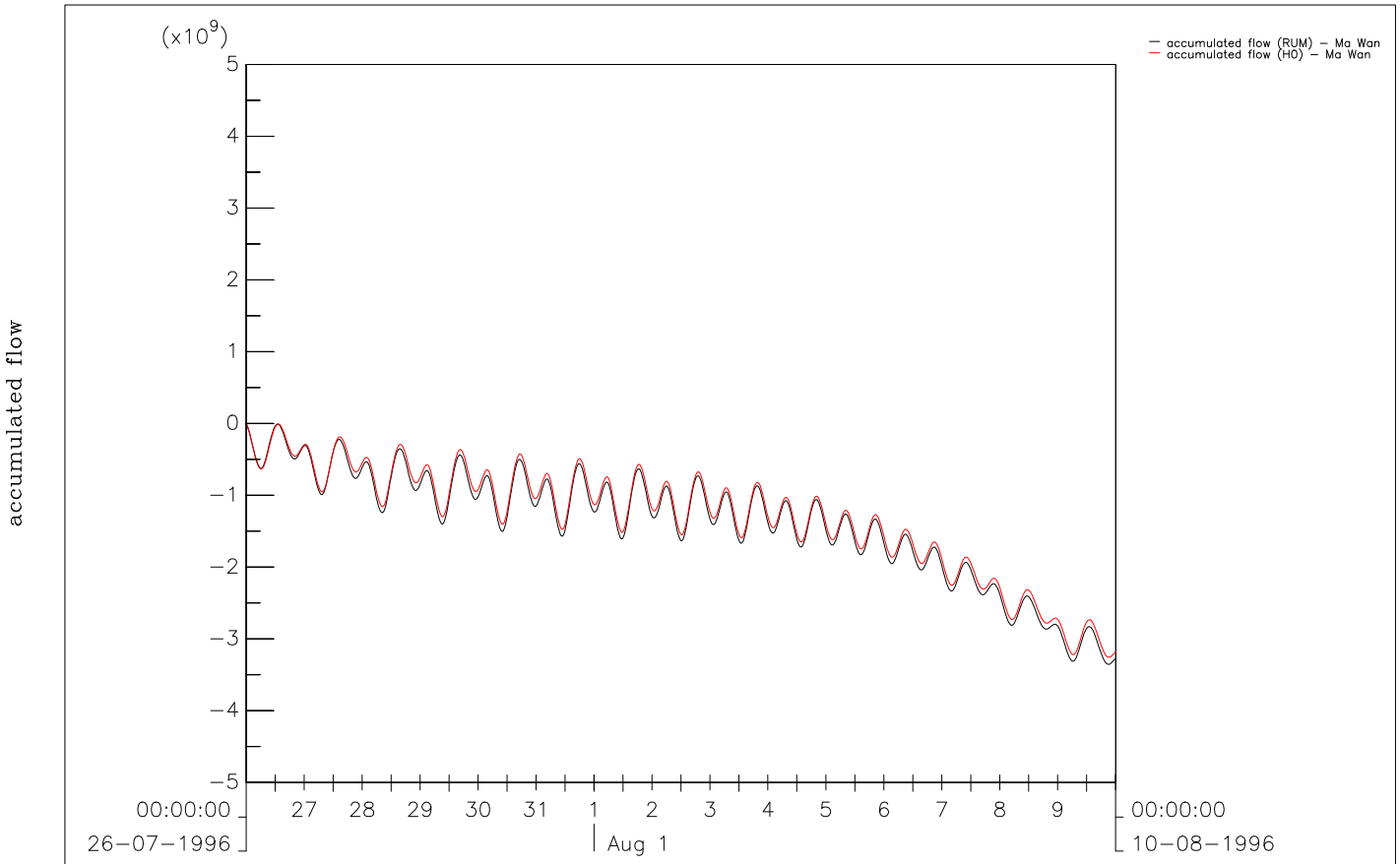
accumulated flow

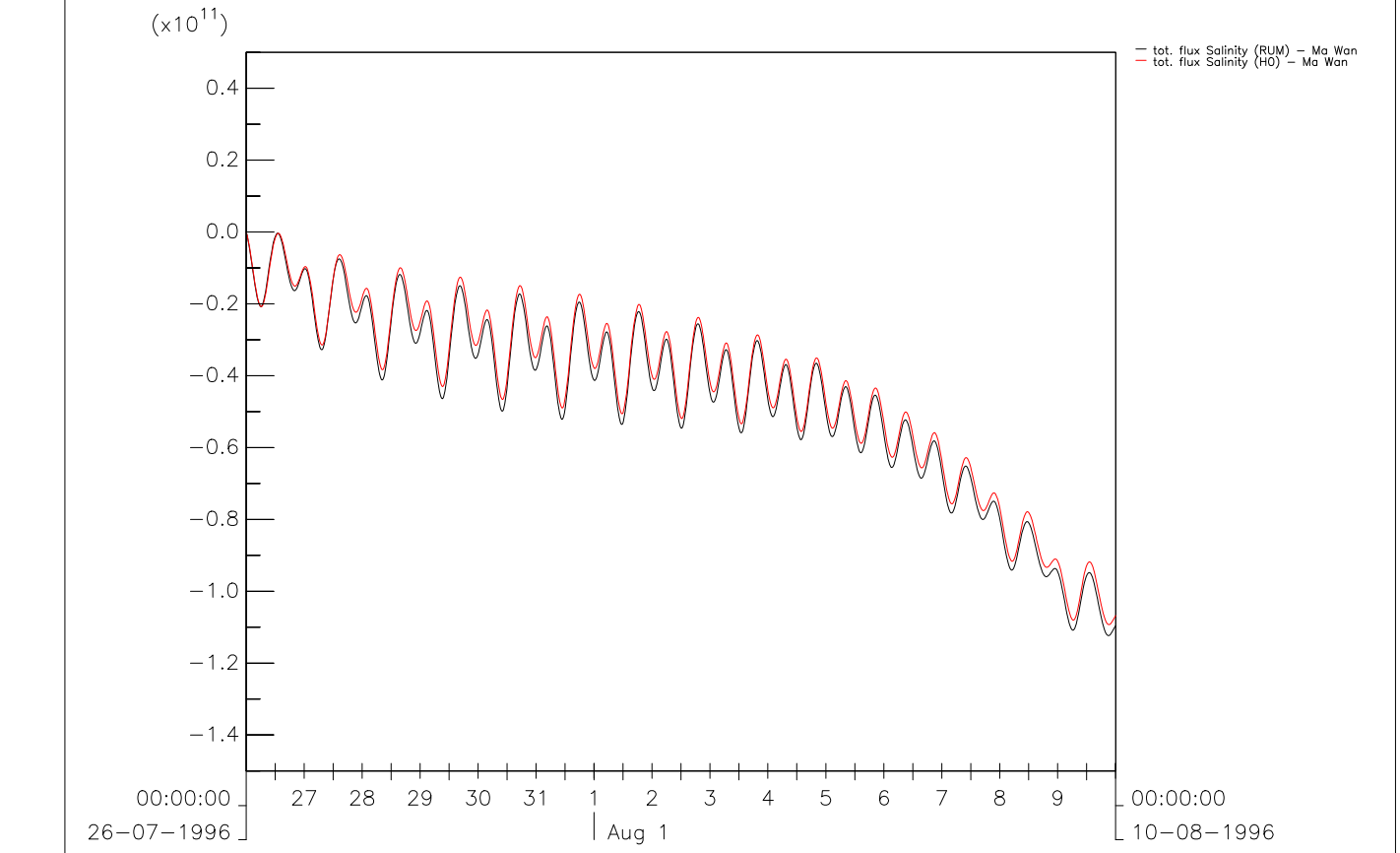


tot. flux Salinity

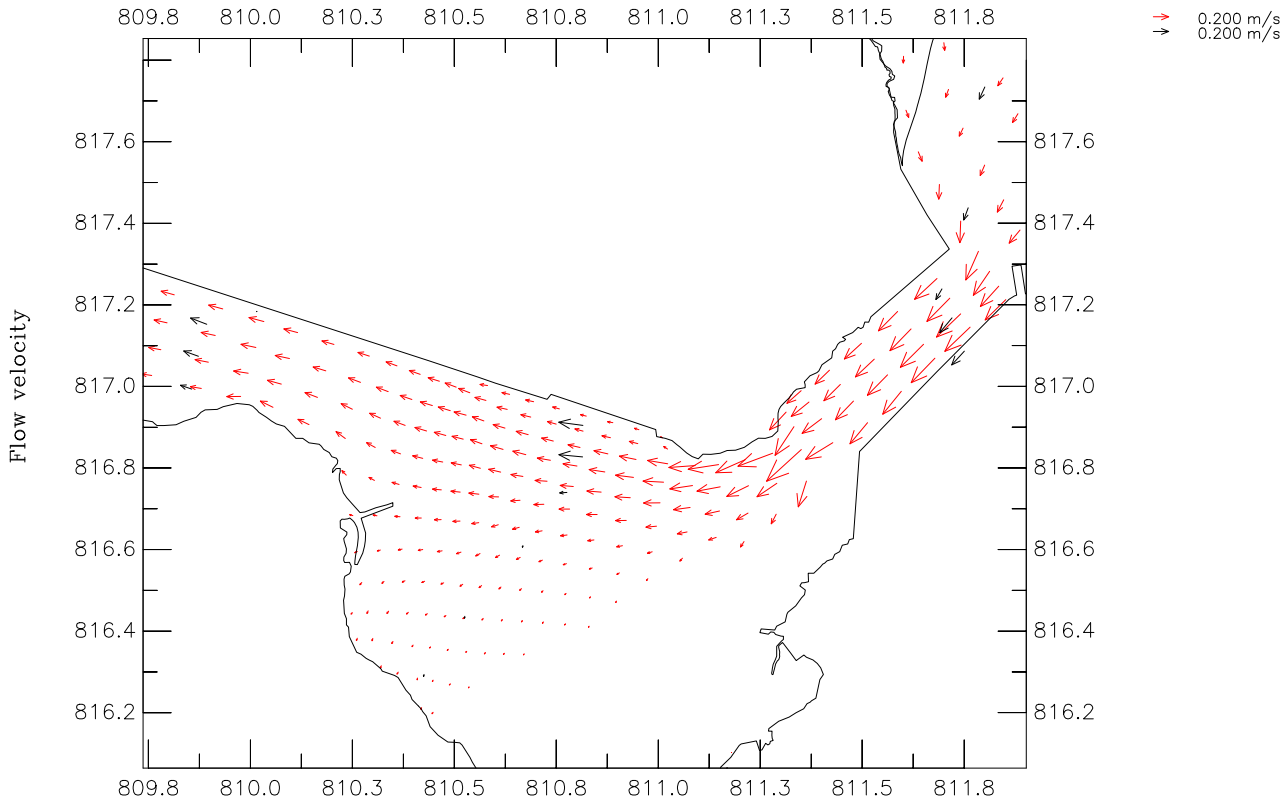


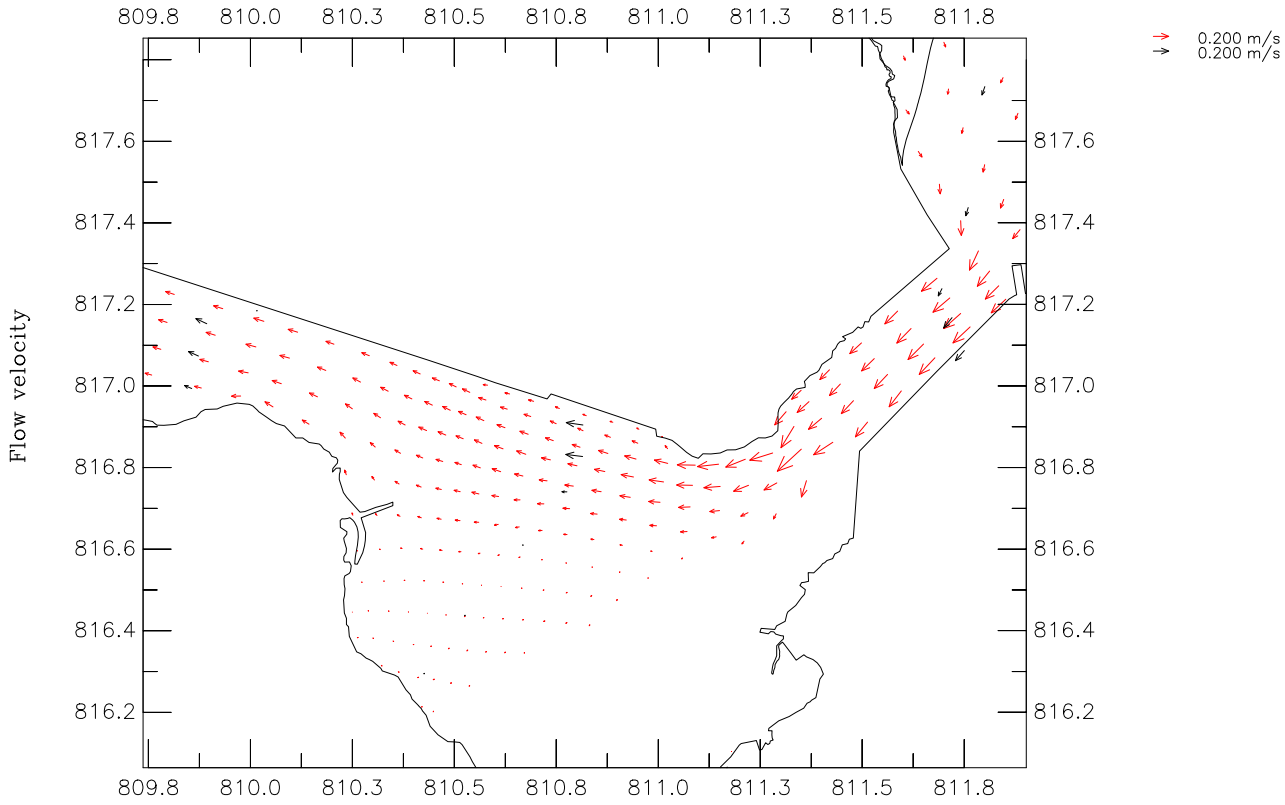
Airport North Upper: Accumulated FLow; Lower: Total Salinity FLux Red: H0 Scenario; Black: Regional Update Model	Dry Season	
	Drawing: H0−D−AN	
ARUP		



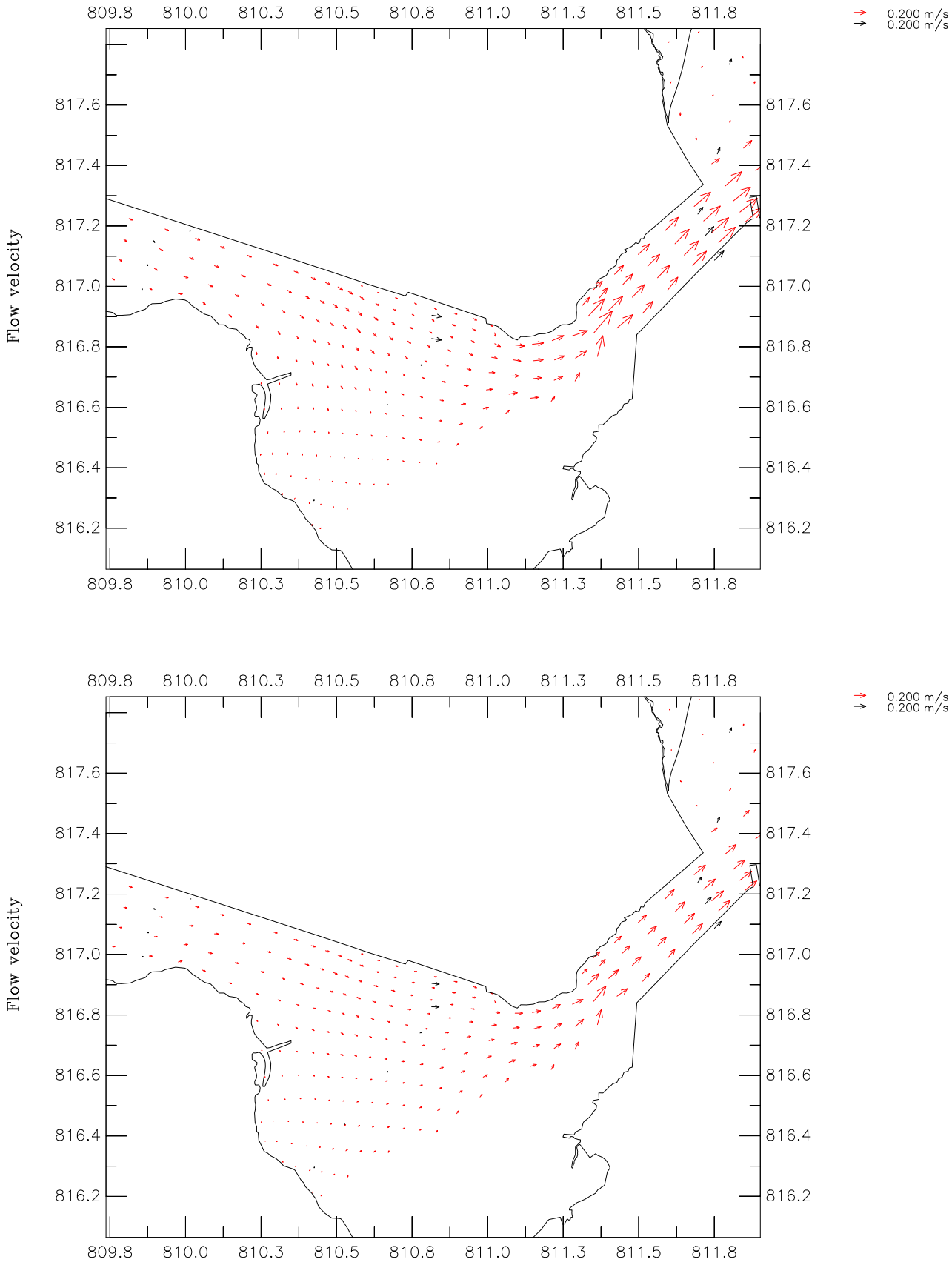


Ma Wan Channel Upper: Accumulated Flow; Lower: Total Salinity Flux Red: H0 Scenario; Black: Regional Update Model	Dry Season	
	Drawing: H0−D−MW	
ARUP		

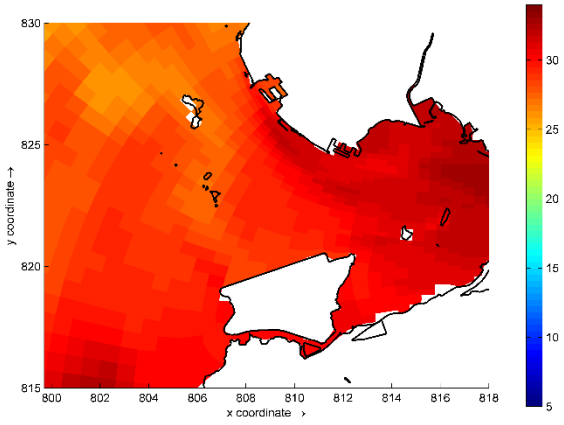




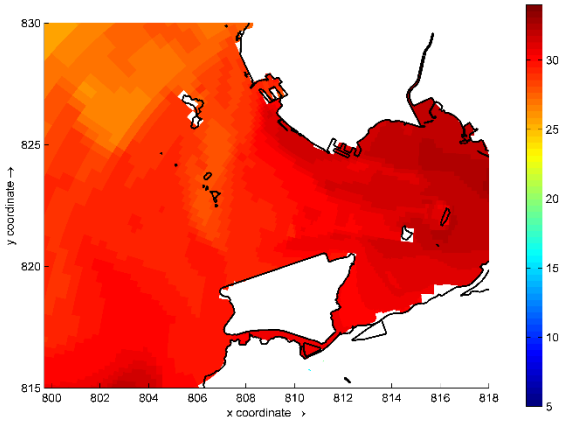
Velocity Vector (Red: H0; Black; RUM) Upper: Surface Layer (Flood Tide: 01/08/1996 08:00:00) Lower: Surface Layer (Flood Tide: 01/08/1996 08:00:00)	Dry Season	
	Drawing: H0–D–VV–FT	
ARUP		



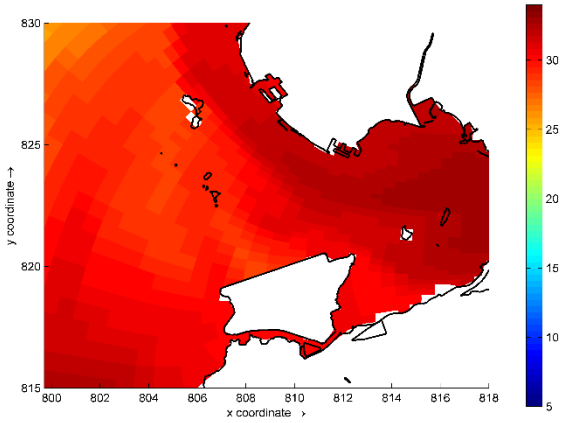
Velocity Vector (Red: H0; Black; RUM) Upper: Surface Layer (Ebb Tide: 30/07/1996 14:00:00) Lower: Surface Layer (Ebb Tide: 30/07/1996 14:00:00)	Dry Season	
	Drawing: H0–D–VV–ET	
ARUP		



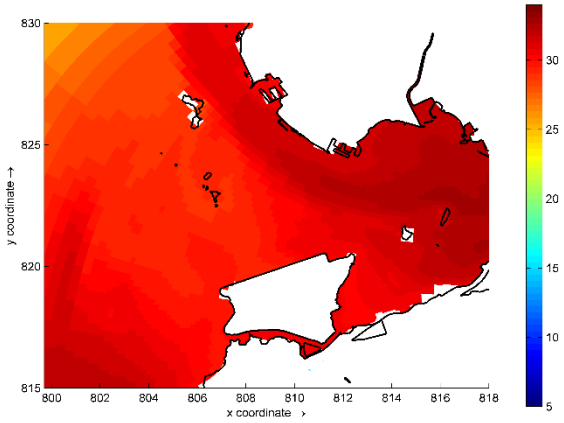
RUM, 29-07-1996 06:00:00, Surface Layer



H0, 29-07-1996 06:00:00, Surface Layer

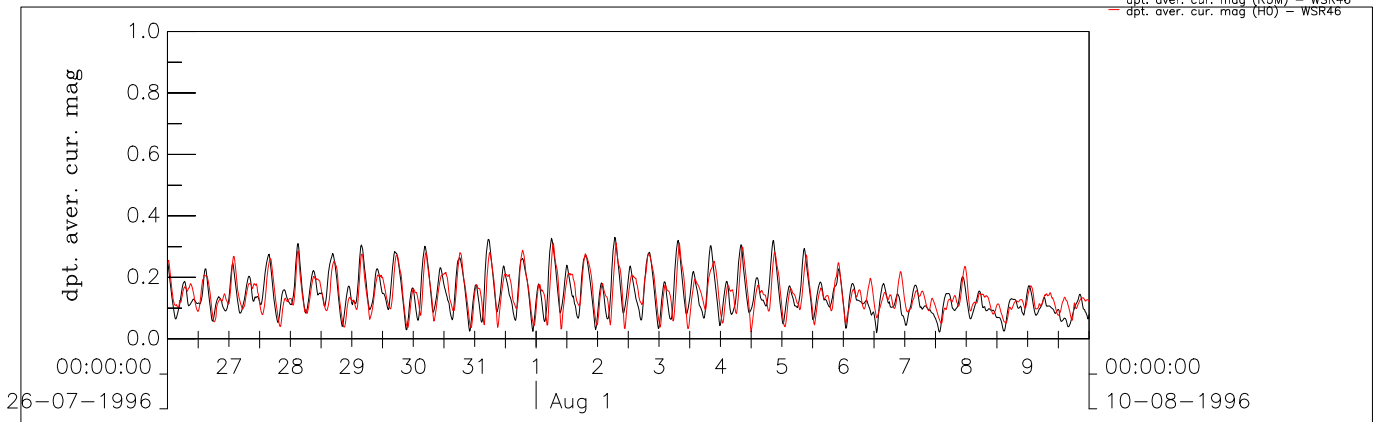


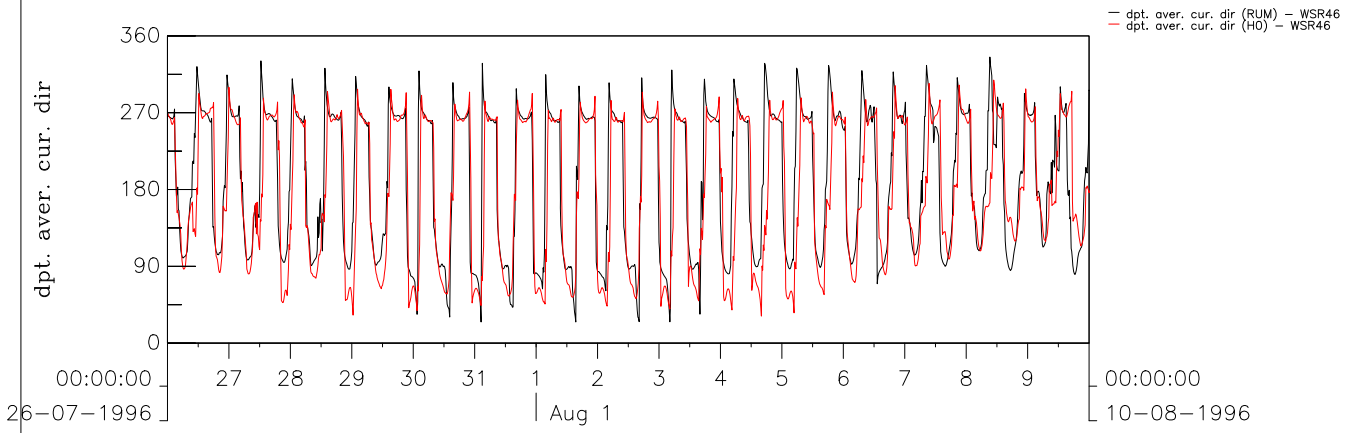
RUM, 29-07-1996 06:00:00, Bottom Layer

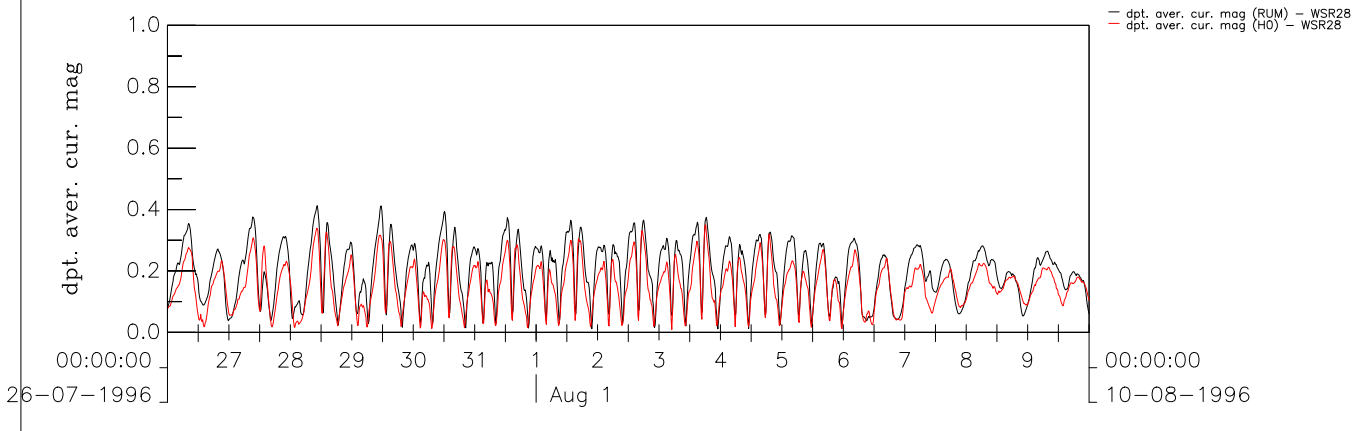


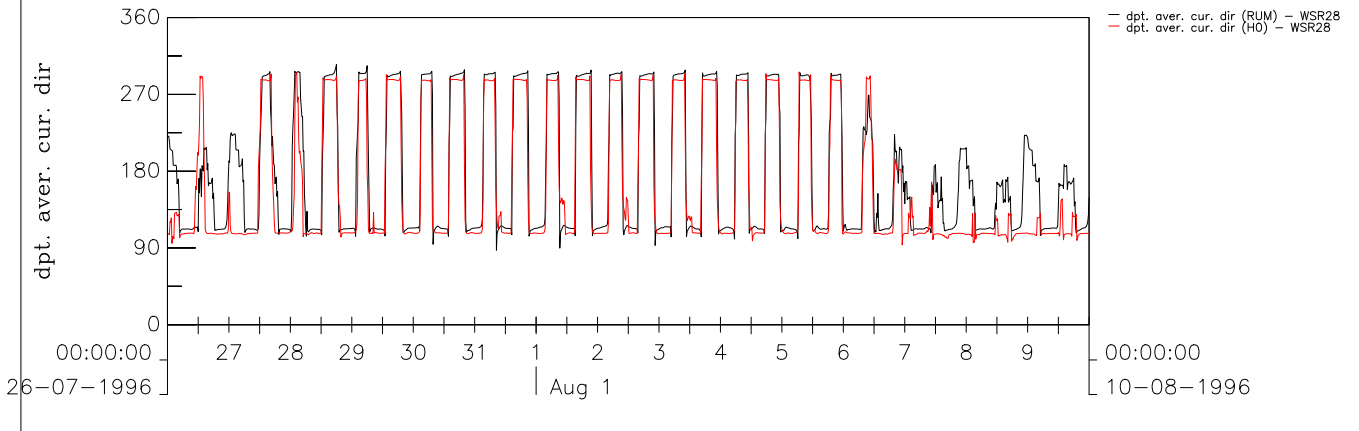
H0, 29-07-1996 06:00:00, Bottom Layer

Salinity (Upper: Surface Layer; Lower: Bottom Layer) UL: RUM Model; UR: H0 Scenario (29/07/1996 06:00:00) LL: RUM Model; LR: H0 Scenario (29/07/1996 06:00:00)	Dry Season Drawing: H0-D-SL
ARUP	

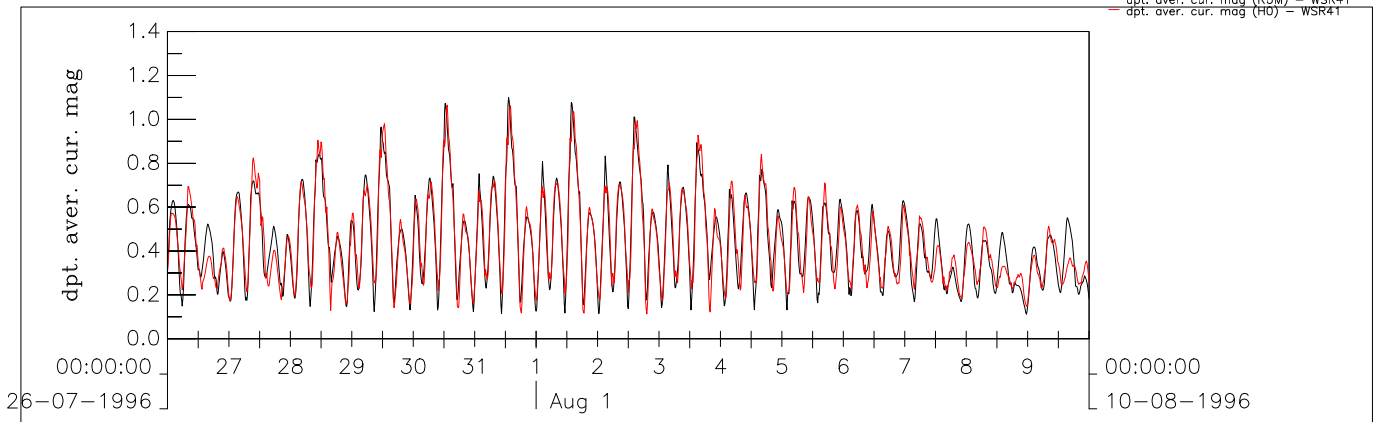


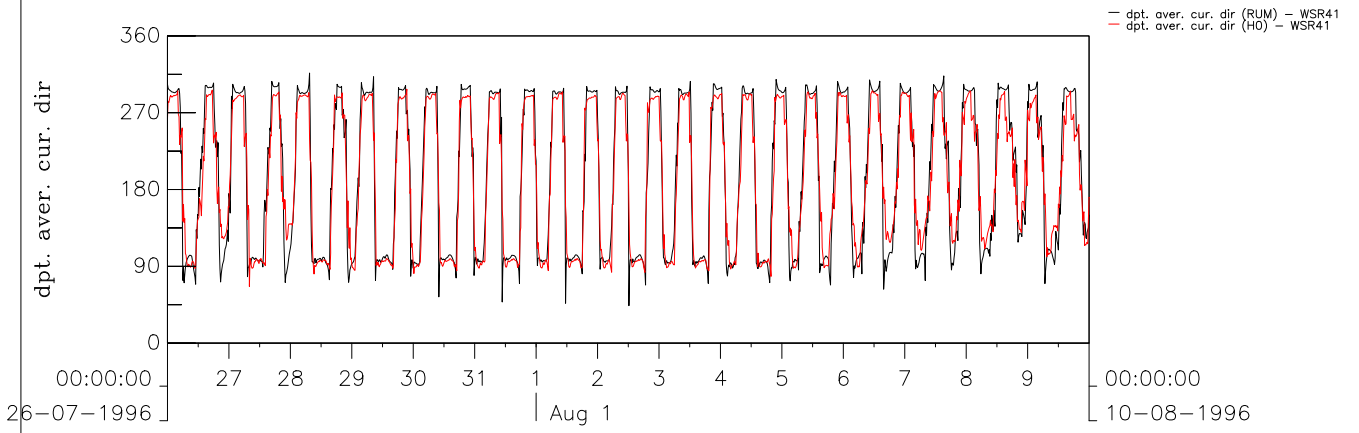


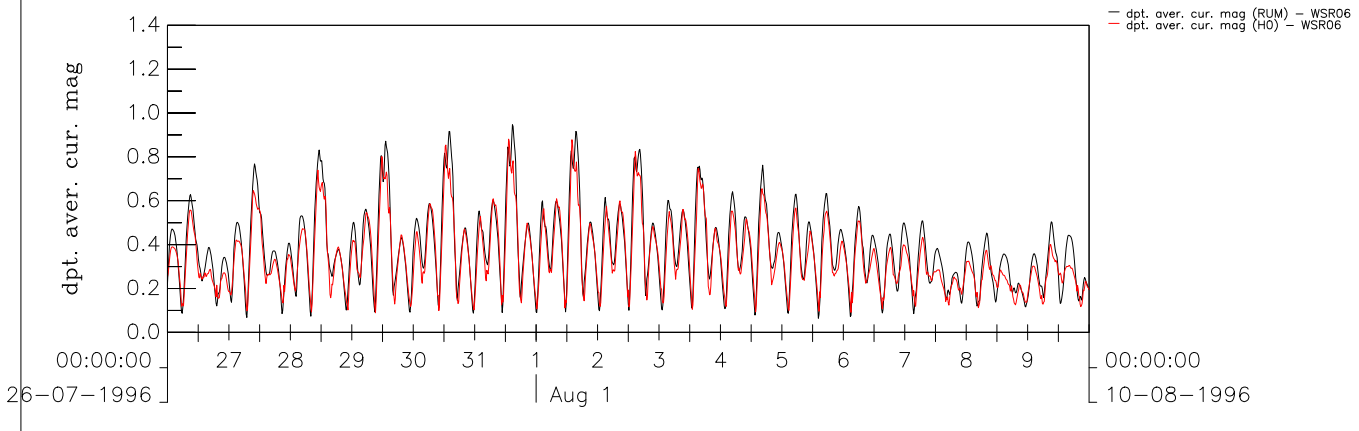


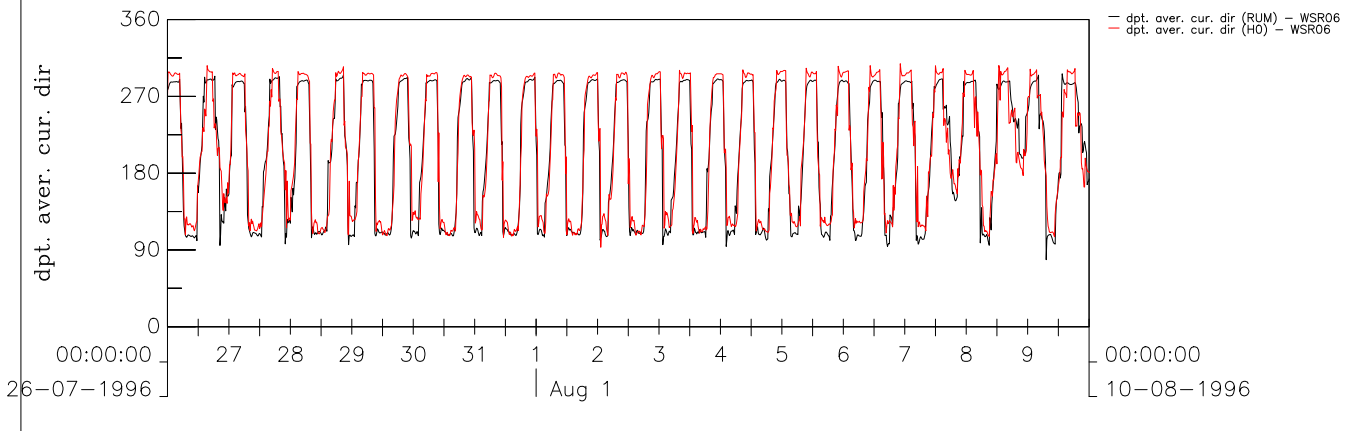


Current Velocity and Direction (Depth Average) Upper: Current Velocity; Lower: Current Direction Red: H0 Scenario; Black: Regional Update Model	Wet Season	
	Drawing: H0-W-CR-WSR 28&46	
ARUP		



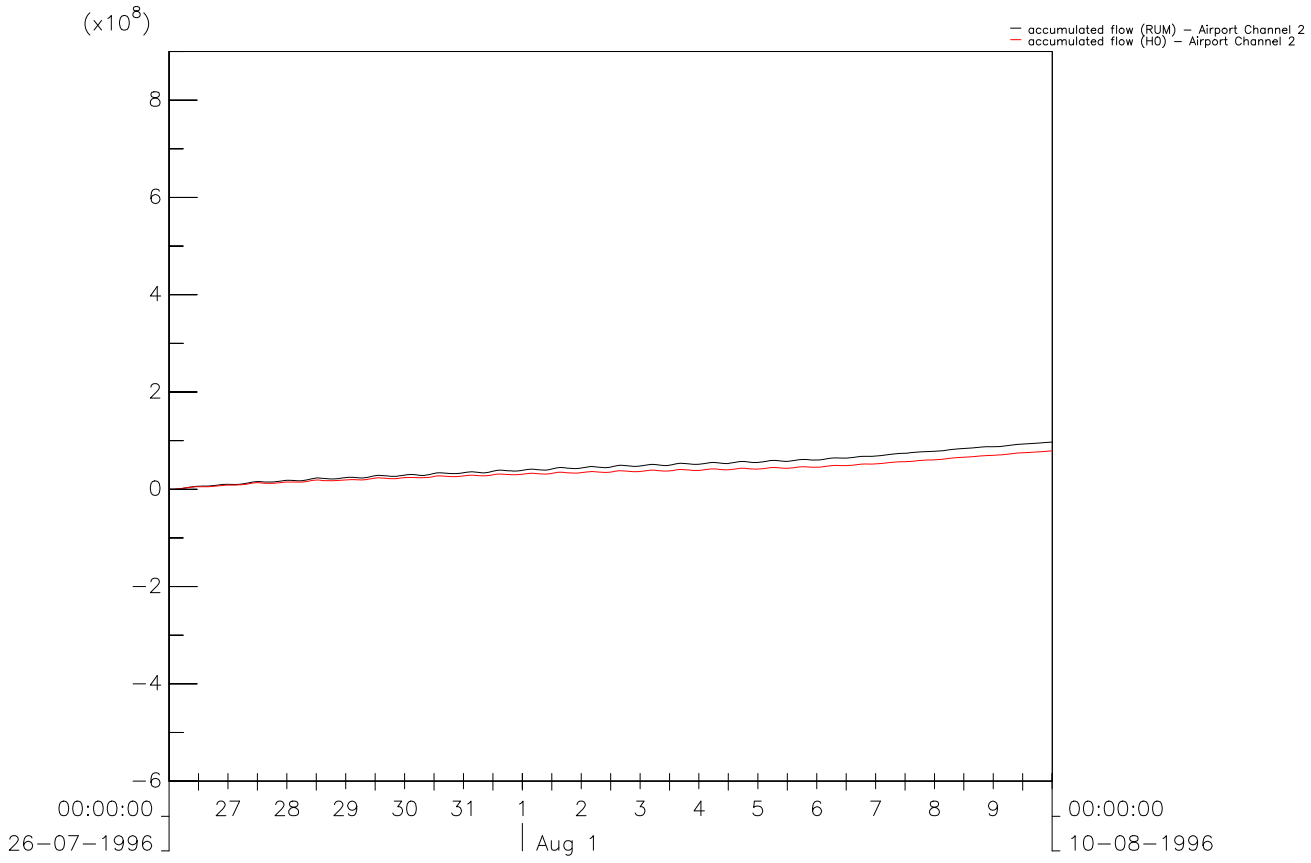




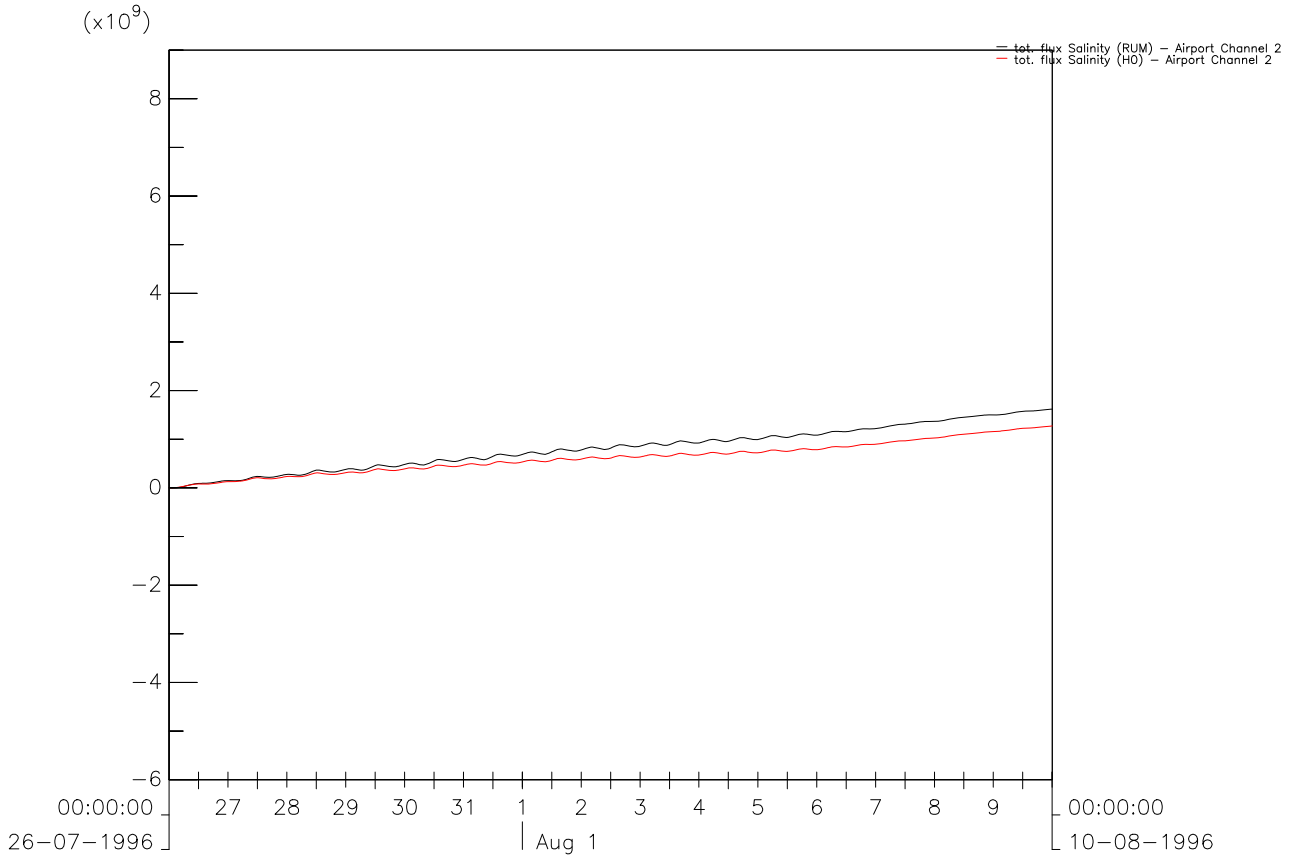


Current Velocity and Direction (Depth Average) Upper: Current Velocity; Lower: Current Direction Red: H0 Scenario; Black: Regional Update Model	Wet Season	
	Drawing: H0-W-CR-WSR 06&41	
ARUP		

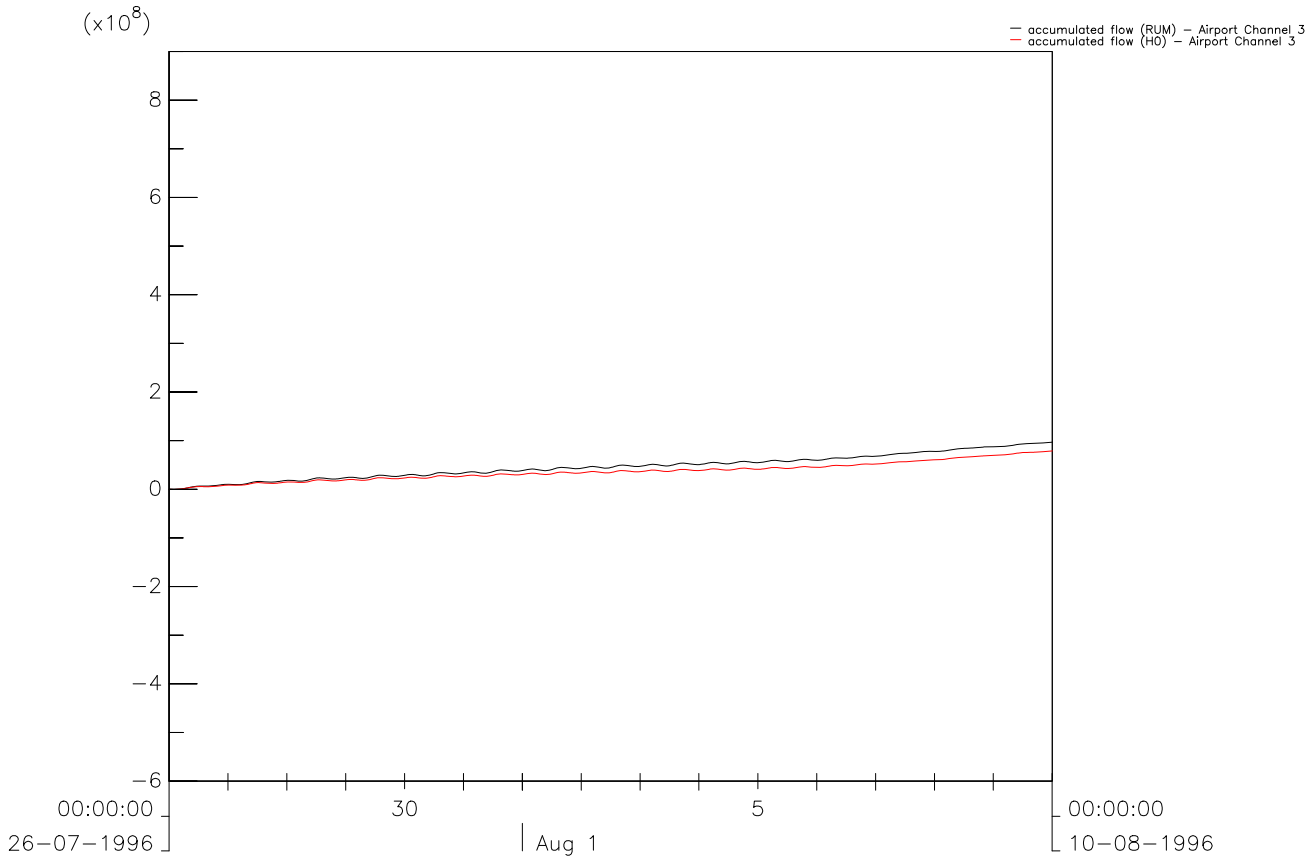
accumulated flow

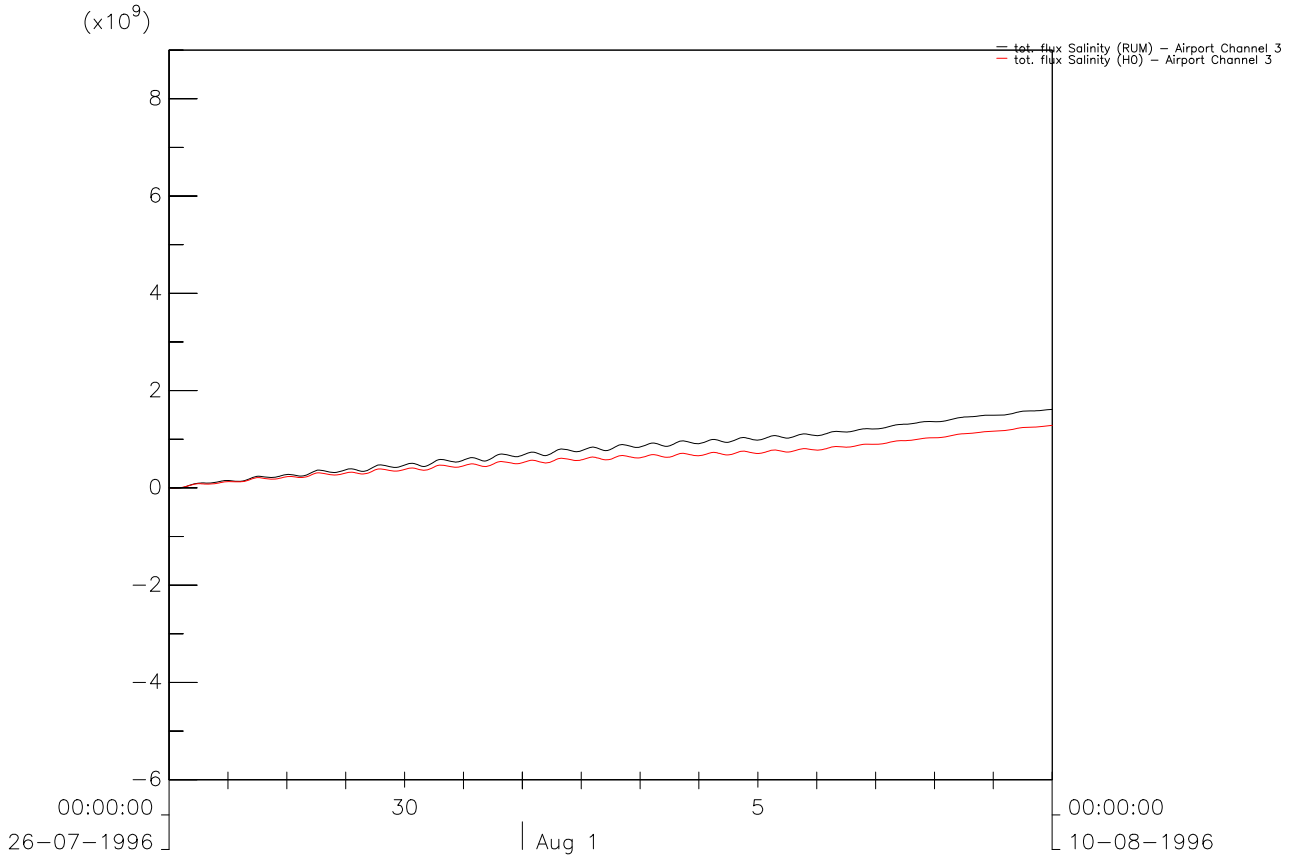


tot. flux Salinity

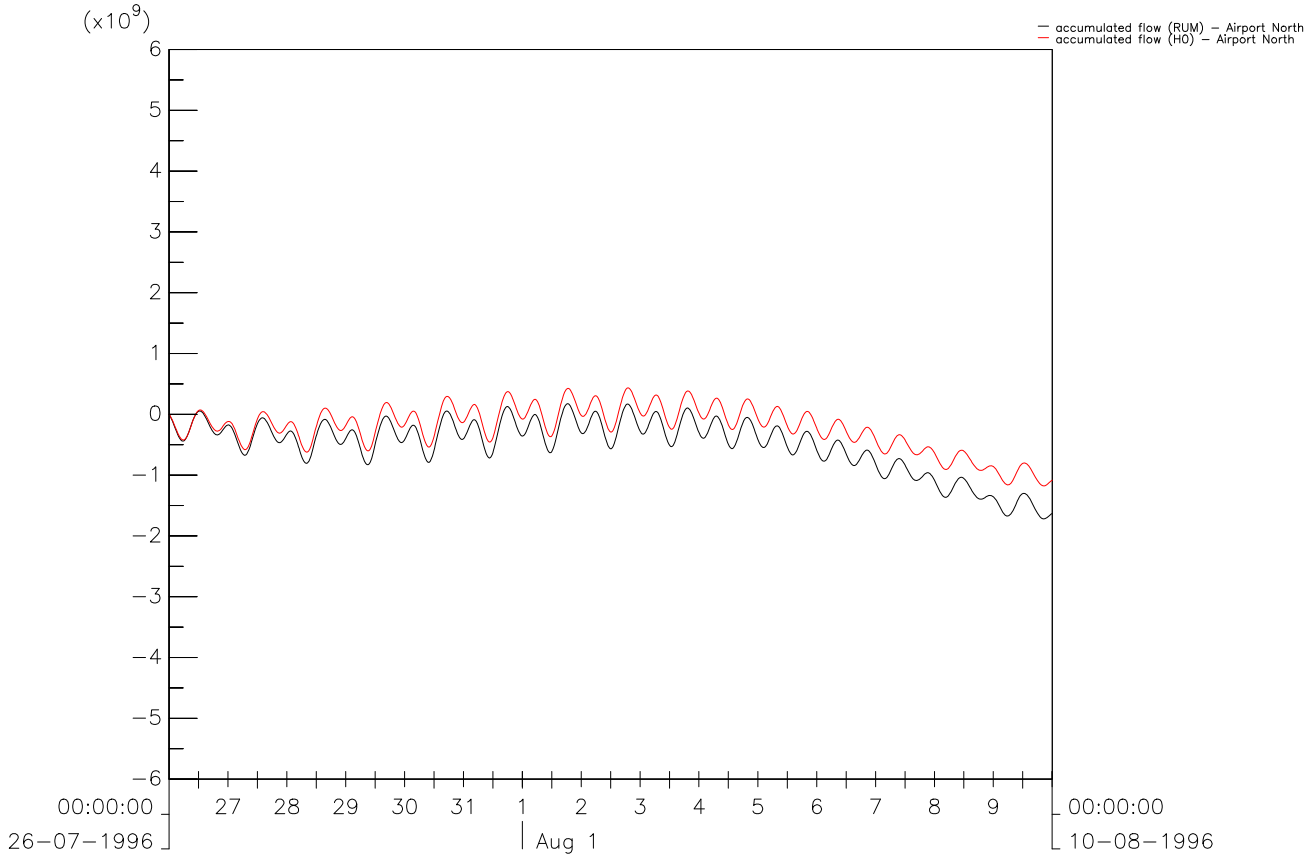


Airport Channel 2 Upper: Accumulated Flow; Lower: Total Salinity Flux Red: H0 Scenario; Black: Regional Update Model	Wet Season	
	Drawing: H0−W−AC2	
ARUP		

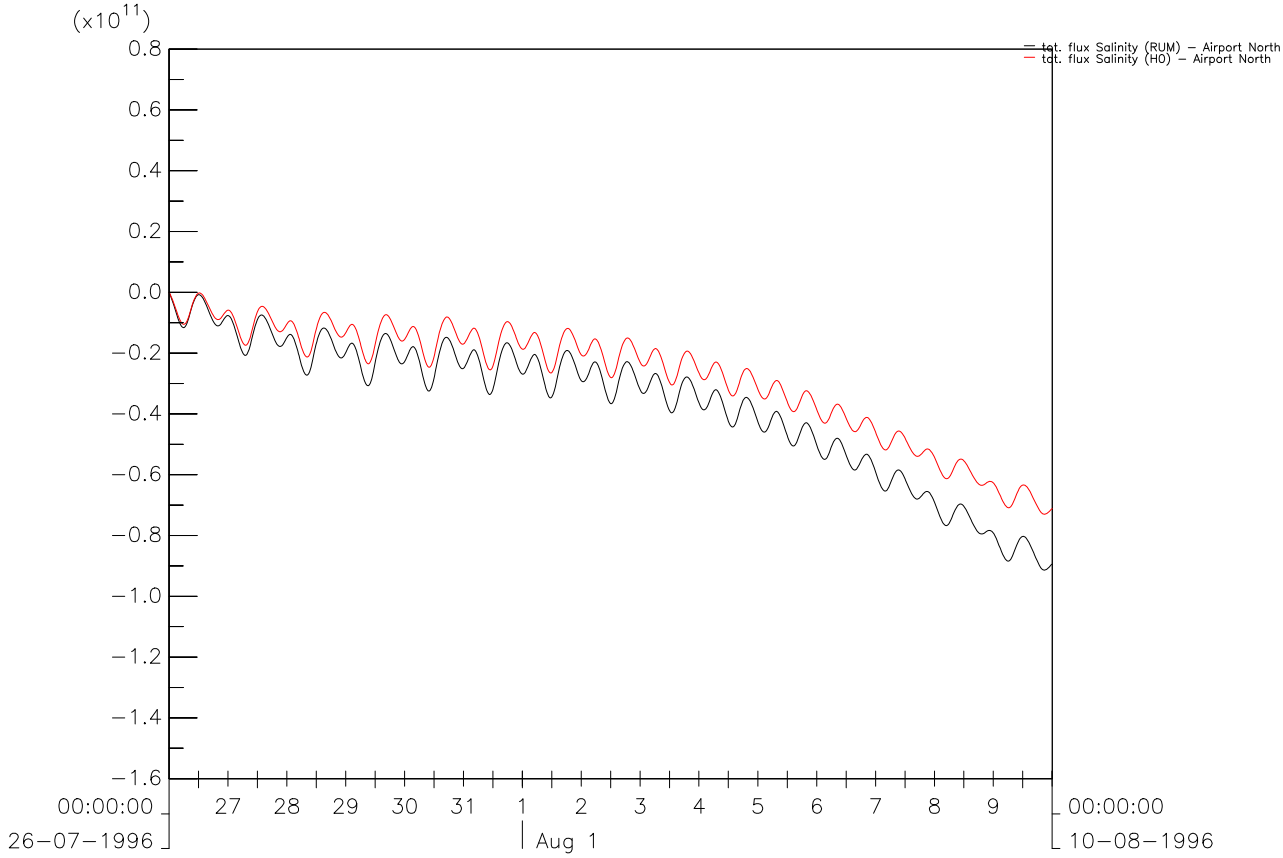




Airport Channel 3 Upper: Accumulated Flow; Lower: Total Salinity Flux Red: H0 Scenario; Black: Regional Update Model	Wet Season	
	Drawing: H0−D−AC3	
ARUP		



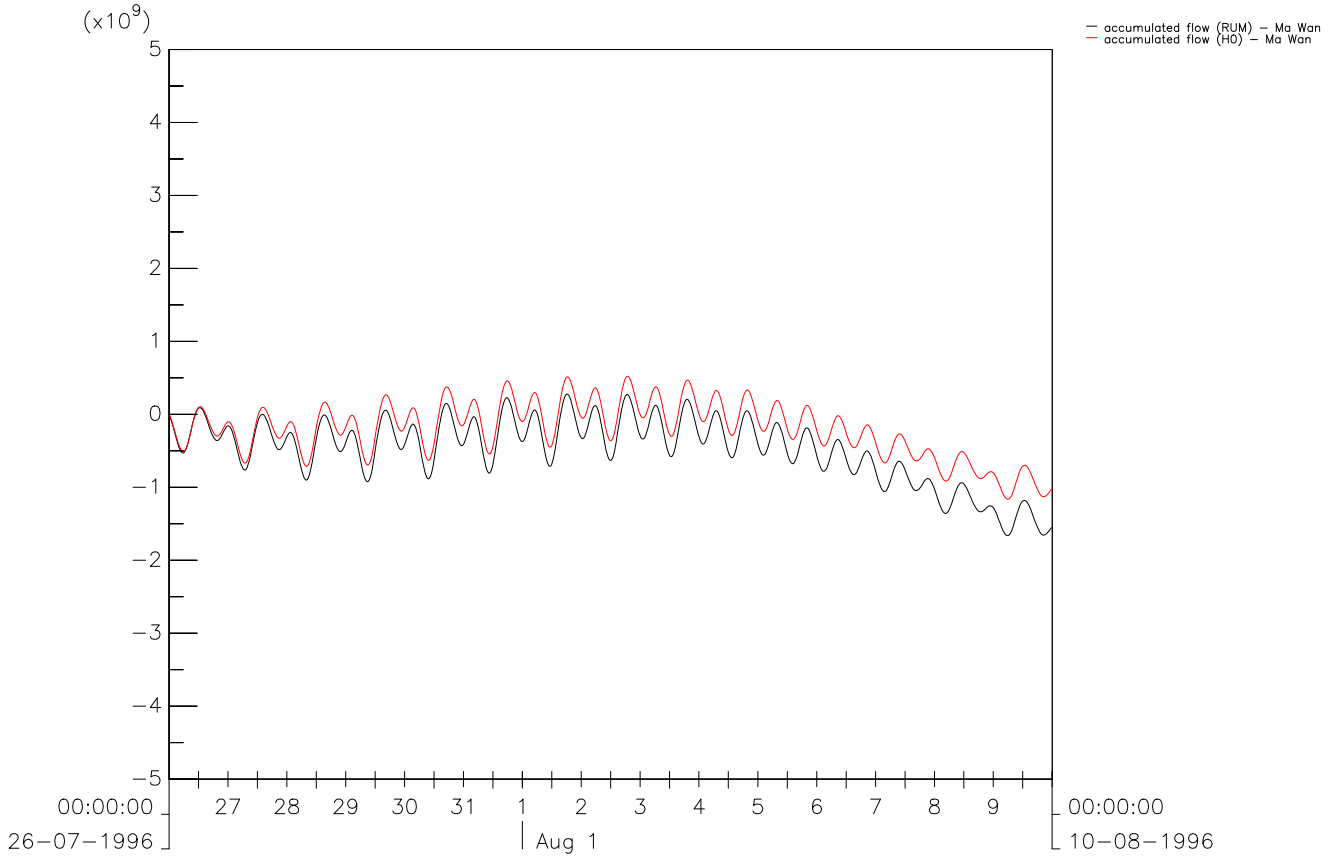
accumulated flow



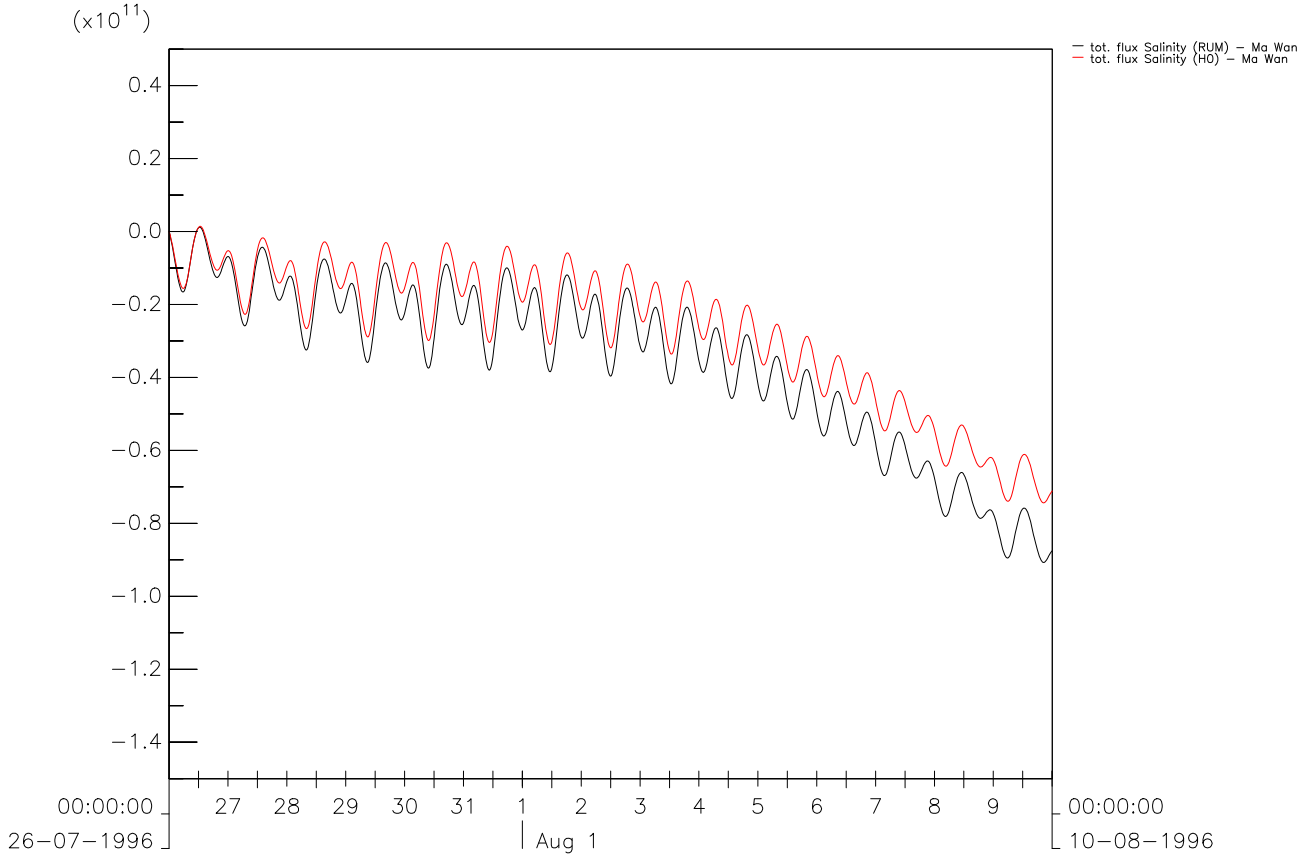
tot. flux Salinity

Airport North Upper: Accumulated FLow; Lower: Total Salinity FLux Red: H0 Scenario; Black: Regional Update Model	Wet Season	
	Drawing: H0–W–AN	
ARUP		

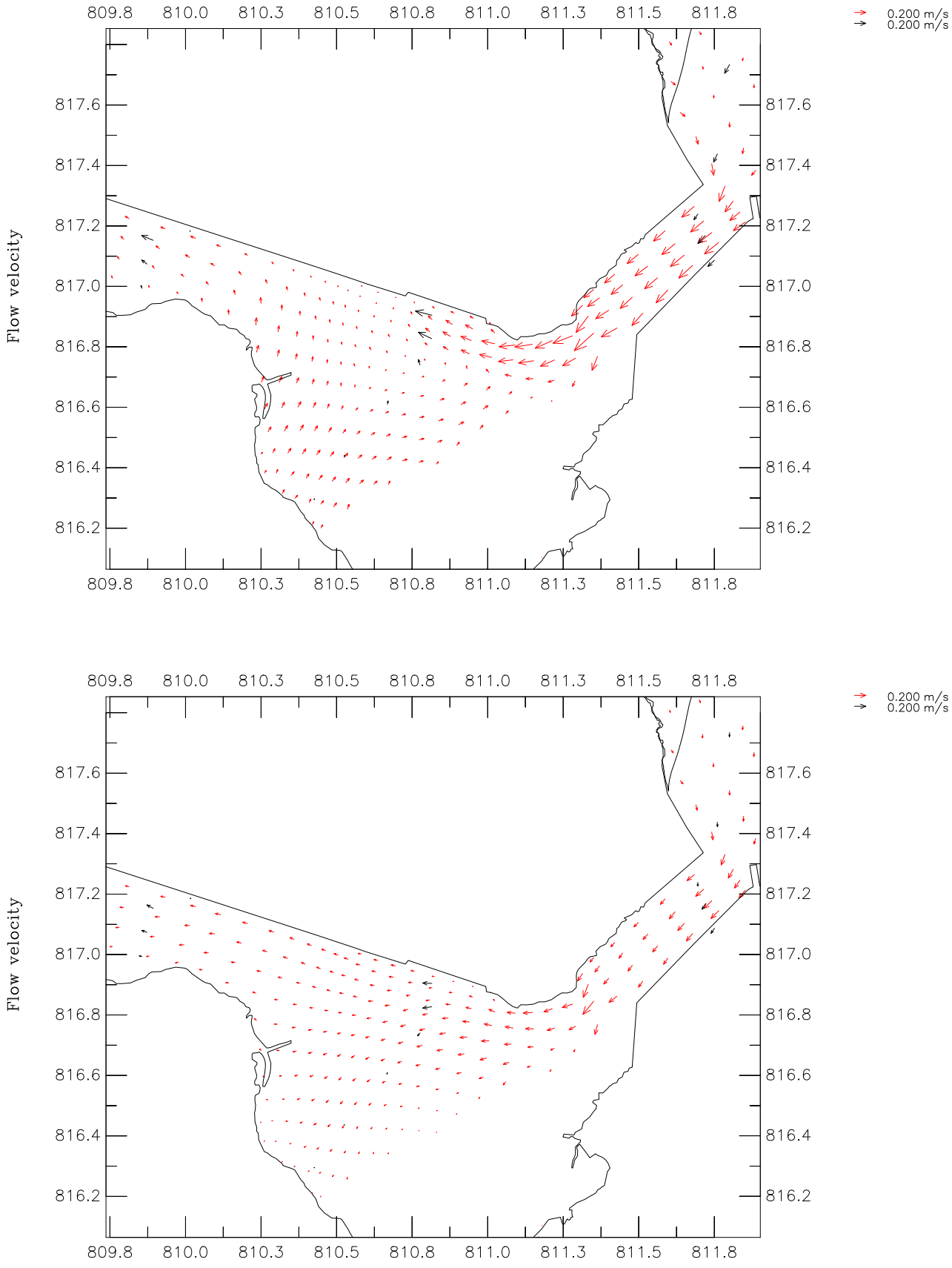
accumulated flow



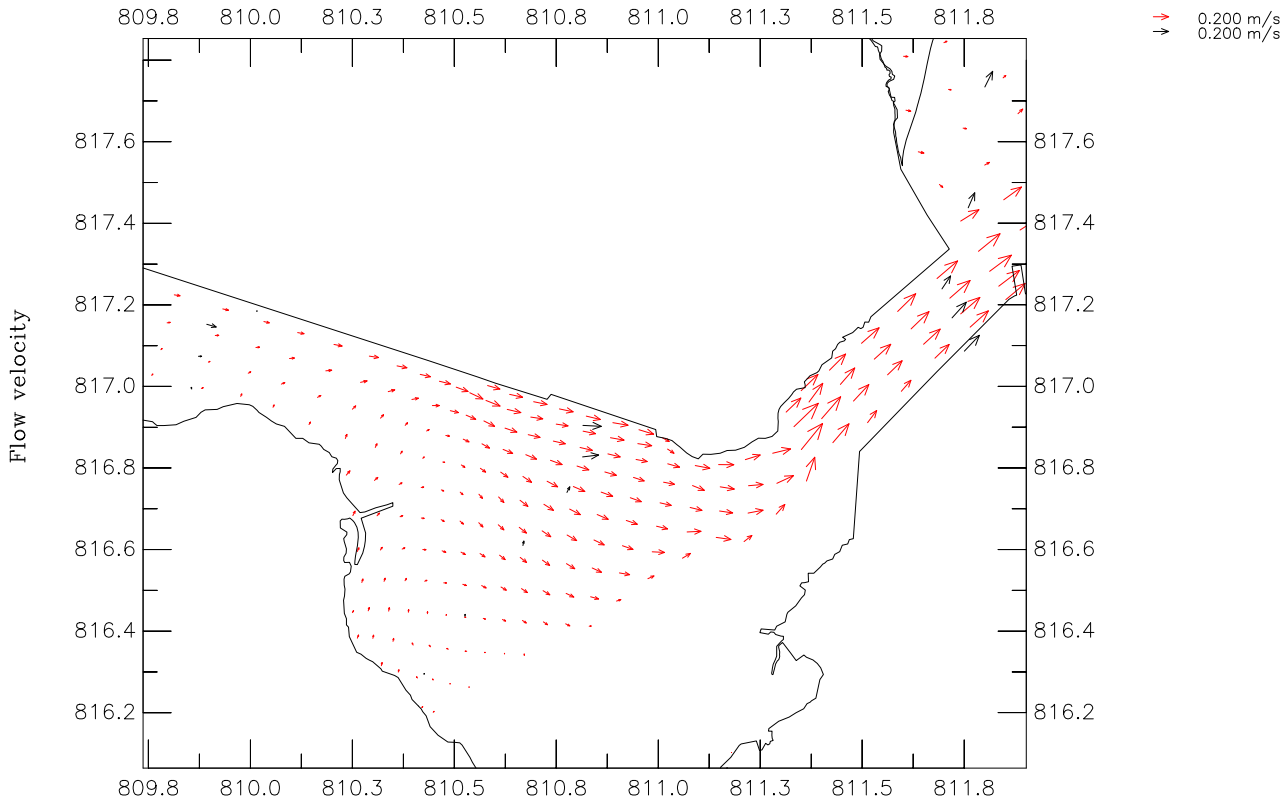
tot. flux Salinity

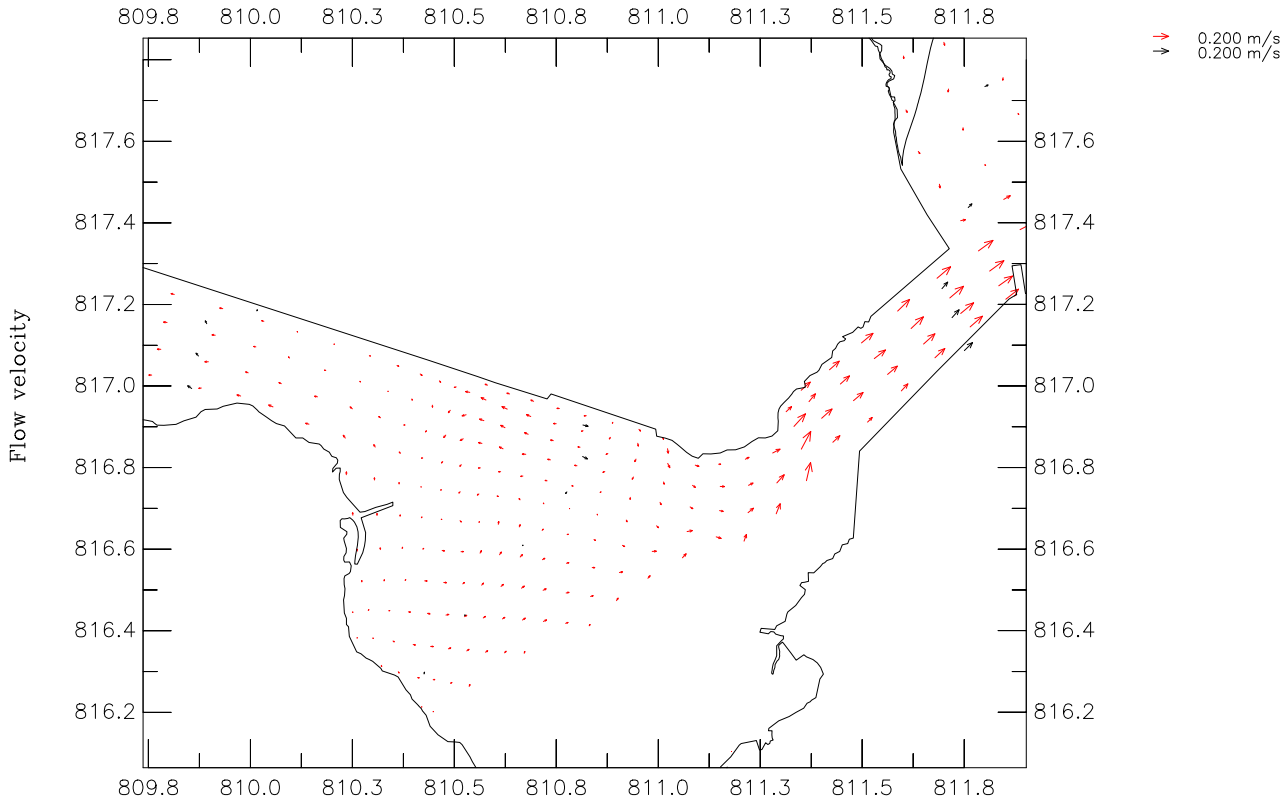


Ma Wan Channel Upper: Accumulated Flow; Lower: Total Salinity Flux Red: H0 Scenario; Black: Regional Update Model	Wet Season
	Drawing: H0−W−MW
ARUP	

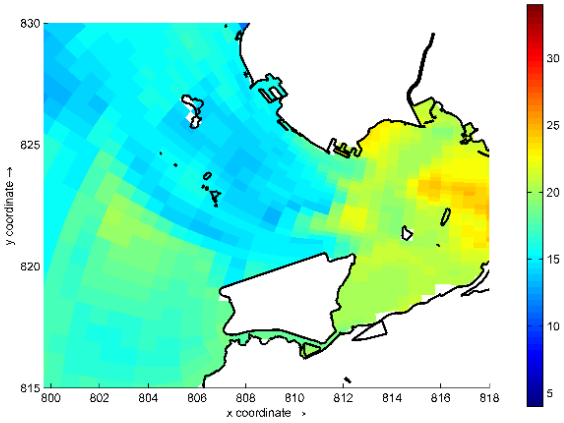


Velocity Vector (Red: H0; Black; RUM) Upper: Surface Layer (Flood Tide: 01/08/1996 08:00:00) Lower: Surface Layer (Flood Tide: 01/08/1996 08:00:00)	Wet Season	
	Drawing: H0–W–VV–FT	
ARUP		

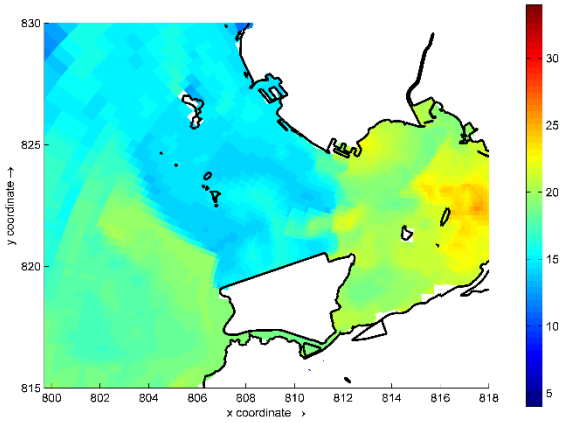




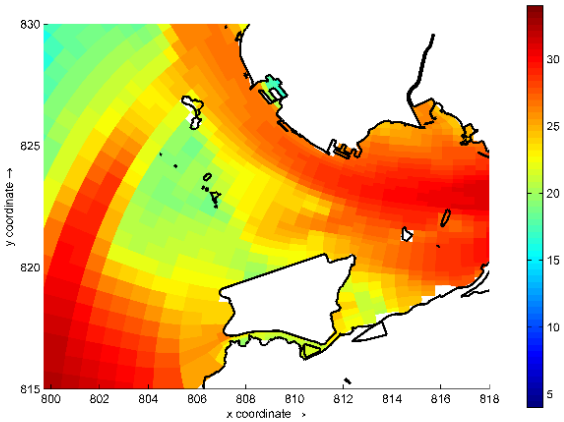
Velocity Vector (Red: H0; Black; RUM) Upper: Surface Layer (Ebb Tide: 30/07/1996 14:00:00) Lower: Surface Layer (Ebb Tide: 30/07/1996 14:00:00)	Wet Season	
	Drawing: H0–W–VV–ET	
ARUP		



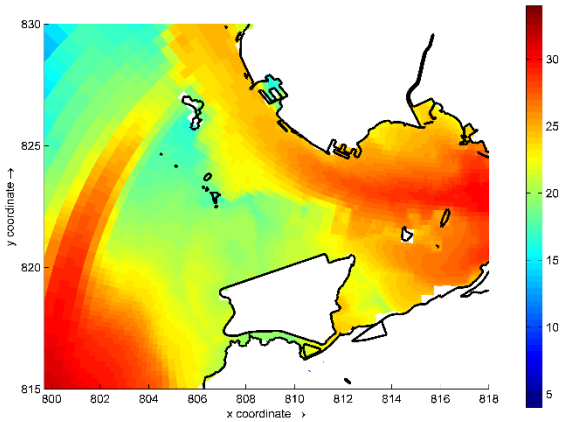
RUM, 28-07-1996 22:00:00, Surface Layer



H0, 28-07-1996 22:00:00, Surface Layer



RUM, 28-07-1996 22:00:00, Bottom Layer



H0, 28-07-1996 22:00:00, Bottom Layer

Salinity (Upper: Surface Layer; Lower: Bottom Layer) UL: RUM Model; UR: H0 Scenario (28/07/1996 22:00:00) LL: RUM Model; LR: H0 Scenario (28/07/1996 22:00:00)	Wet Season	
	Drawing: H0-W-SL	
ARUP		