

Filename	description
Boundary conditions	
Bonello_2018.fem	Daily freshwater discharge [m^3s^{-1}] of the Bonello pumping Station
Pomposa_2018.fem	Daily freshwater discharge from the Pomposa pumping station
Romanina_2018_JA.fem	Daily freshwater discharge from the Romanina pumping station
Giralda_2018.fem	Daily freshwater input [m^3s^{-1}] of the Giralda pumping station
Po_Volano_2018.fem	Daily water discharge imposed at the Po of Volano boundary condition
Po_Goro_cubic.fem	Po of Goro river branch discharge, see the paper for the details of the calculation
Po_Ven_cubic.fem	Po of Venezia river branch discharge, calculated as difference between the total discharge of the Po river measured at the Pontelagoscuro station and the Po of Goro calculated discharge
can_rom_temp.fem	Monthly climatological water temperature [$^{\circ}\text{C}$] of the freshwater input of the Romanina pumping station, imposed also at the Bonello, Giralda and Pomposa stations.
Po_vol_temp.fem	Monthly climatological water temperature imposed as boundary condition at the Po of Volano open boundary, see the paper for the details.
temp_po_pontelagoscuro_climatologica1989-2011.fem	Monthly climatological water temperature of the Po river imposed as boundary condition at the Po of Goro and Po of Venezia open boundaries
Model outputs	
exp0_sa.Goro.ssh.nc	Sea level height interpolated over regular grid of 100m spacing
exp0_sa.Goro.hydro.part1.nc	U and V component of the velocity from 2018-01-01 to 2018-07-01, for each model layer interpolated over regular grid of 100m spacing
exp0_sa.Goro.hydro.part2.nc	U and V component of the velocity from 2018-07-01 to 2018-12-31, for each model layer interpolated over regular grid of 100m spacing
exp0_sa.Goro.temp.nc	Temperature for each model layer interpolated over regular grid of 100m spacing
exp0_sa.Goro.salt.nc	Salinity for each model layer interpolated over regular grid of 100m spacing
exp0_sa.wrt.nc	Water Renewal Time, interpolated over regular grid of 50m spacing
Postprocessed outputs	
exp0_sa.hydro.aver.nc	2018 average U, V for each model layer, and Sea water level, interpolated over regular grid of 50m spacing
exp0_sa.hydro.aver.monthly.nc	monthly average U, V for each model layer, and Sea water level, interpolated over regular grid of 50m spacing
exp0_sa.speed.aver.nc	2018 average current speed for each model layer, interpolated over regular grid of 50m spacing

exp0_sa.speed.aver.monthly.nc	monthly average current speed for each model layer, interpolated over regular grid of 50m spacing
exp0_sa.speed.monthly.anomaly.nc	anomaly of the average monthly current speed for each model layer, with respect to the 2018 annual average speed, interpolated over regular grid of 50m spacing
exp0_sa.hydro.aver.22-26feb.nc	average U, V for each model layer, and Sea water level during an intense Bora wind event, interpolated over regular grid of 50m spacing
exp0_sa.hydro.aver.27-31oct.nc	average U, V for each model layer, and Sea water level during an intense Sirocco wind event, interpolated over regular grid of 100m spacing
exp0_sa.ts.aver.nc	2018 average temperature, salinity and density anomaly for each model layer, interpolated over regular grid of 50m spacing
exp0_sa.ts.monthly.anomaly.nc	anomaly of the average monthly temperature, salinity and density anomaly for each model layer, with respect to the 2018 annual average, interpolated over regular grid of 50m spacing
exp0_sa.ts.std.nc	Annual standard deviation of temperature, salinity and density anomaly for each model layer, interpolated over regular grid of 50m spacing
exp0_sa.ts.aver.22-26feb.nc	average temperature, salinity and density anomaly for each model layer, during an intense Bora wind event, interpolated over regular grid of 50m spacing
exp0_sa.ts.aver.27-31oct.nc	average temperature, salinity and density anomaly for each model layer, during an intense Sirocco wind event, interpolated over regular grid of 100m spacing
exp0_sa.wrt.aver.nc	2018 average Water Renewal Time for each model layer, interpolated over regular grid of 50m spacing
exp0_sa.wrt.anomaly.nc	anomaly of each Water Renewal Time calculated, with respect to the 2018 annual average, interpolated over regular grid of 50m spacing