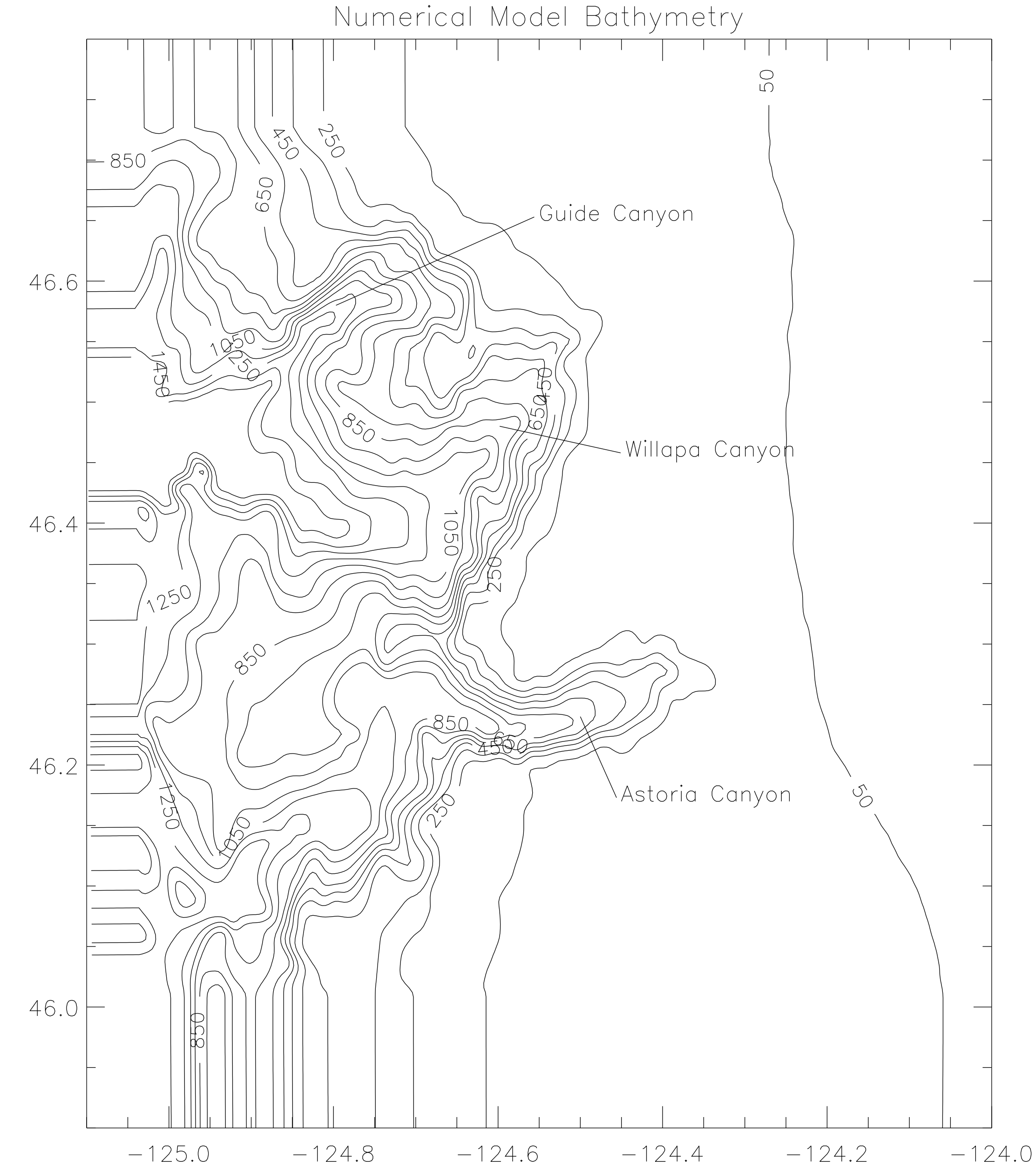
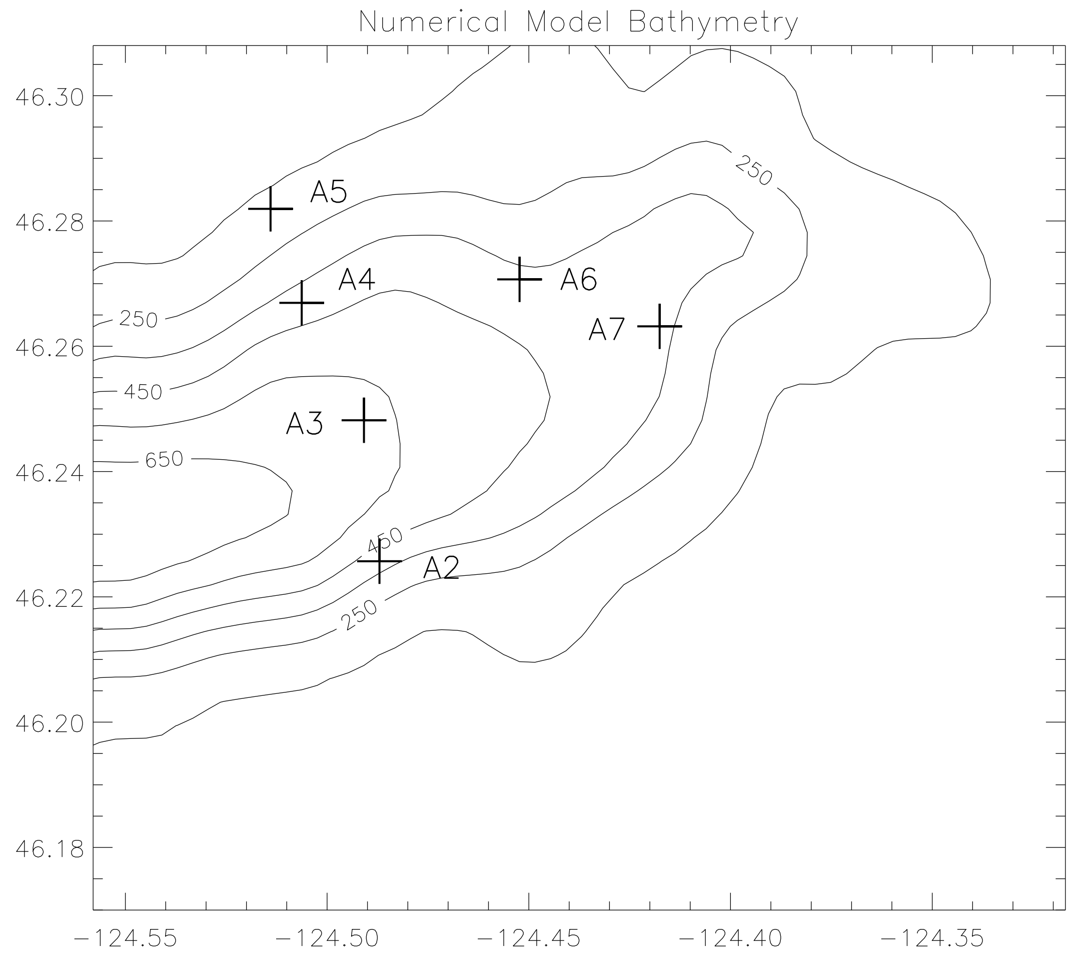
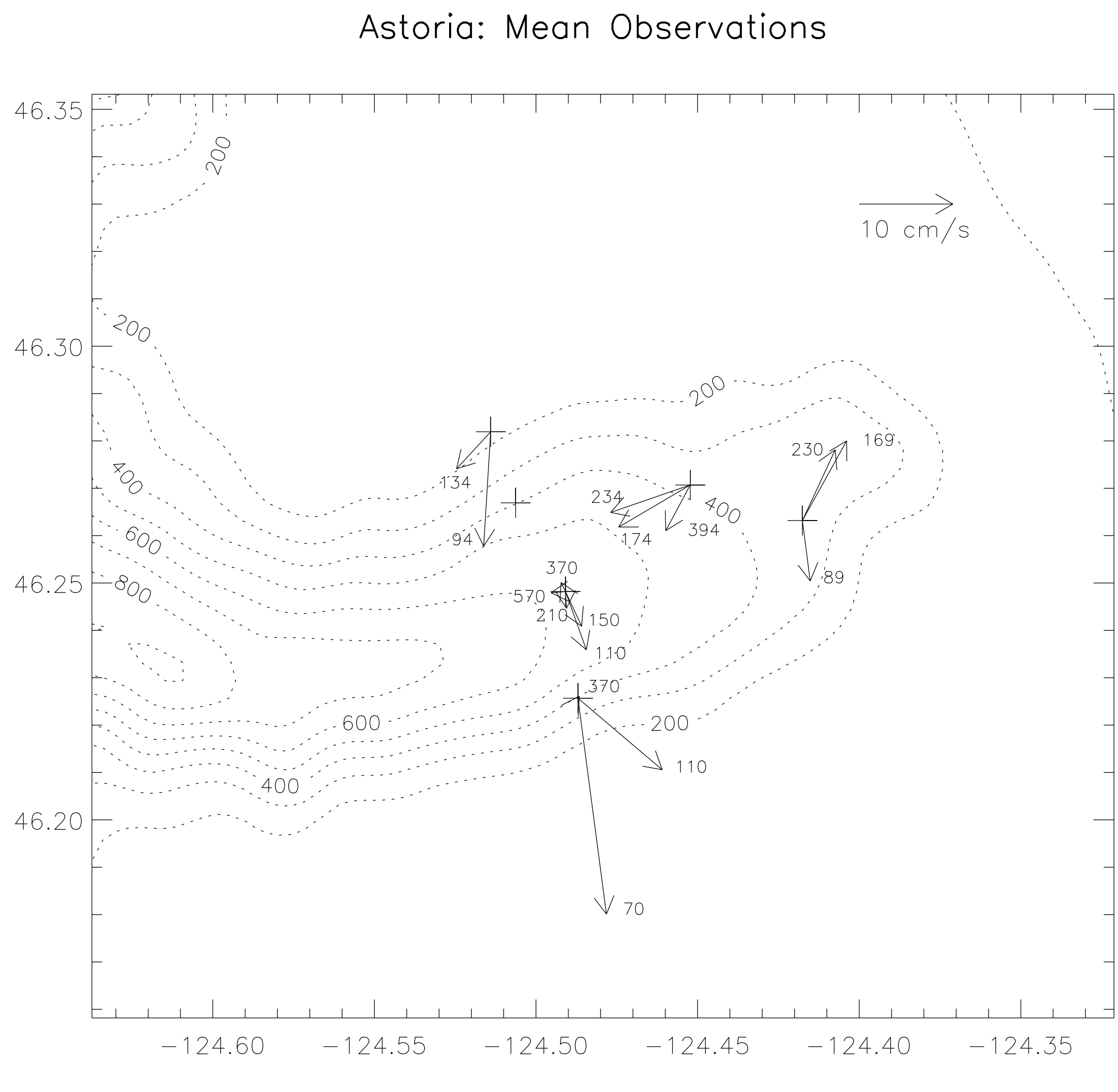


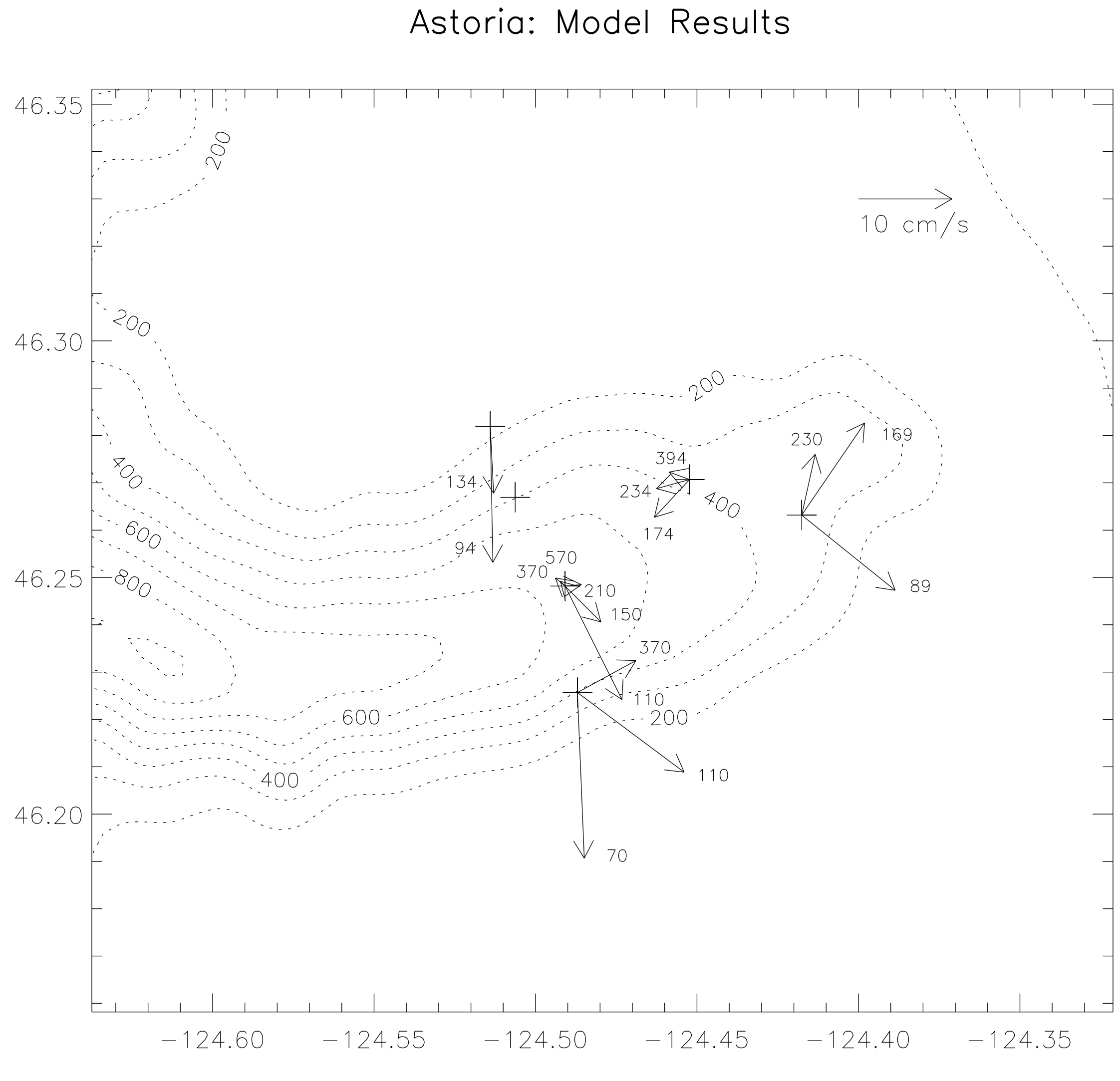
1. Model Bathymetry. Contours are every 100m and the depth is limited to 1500m.



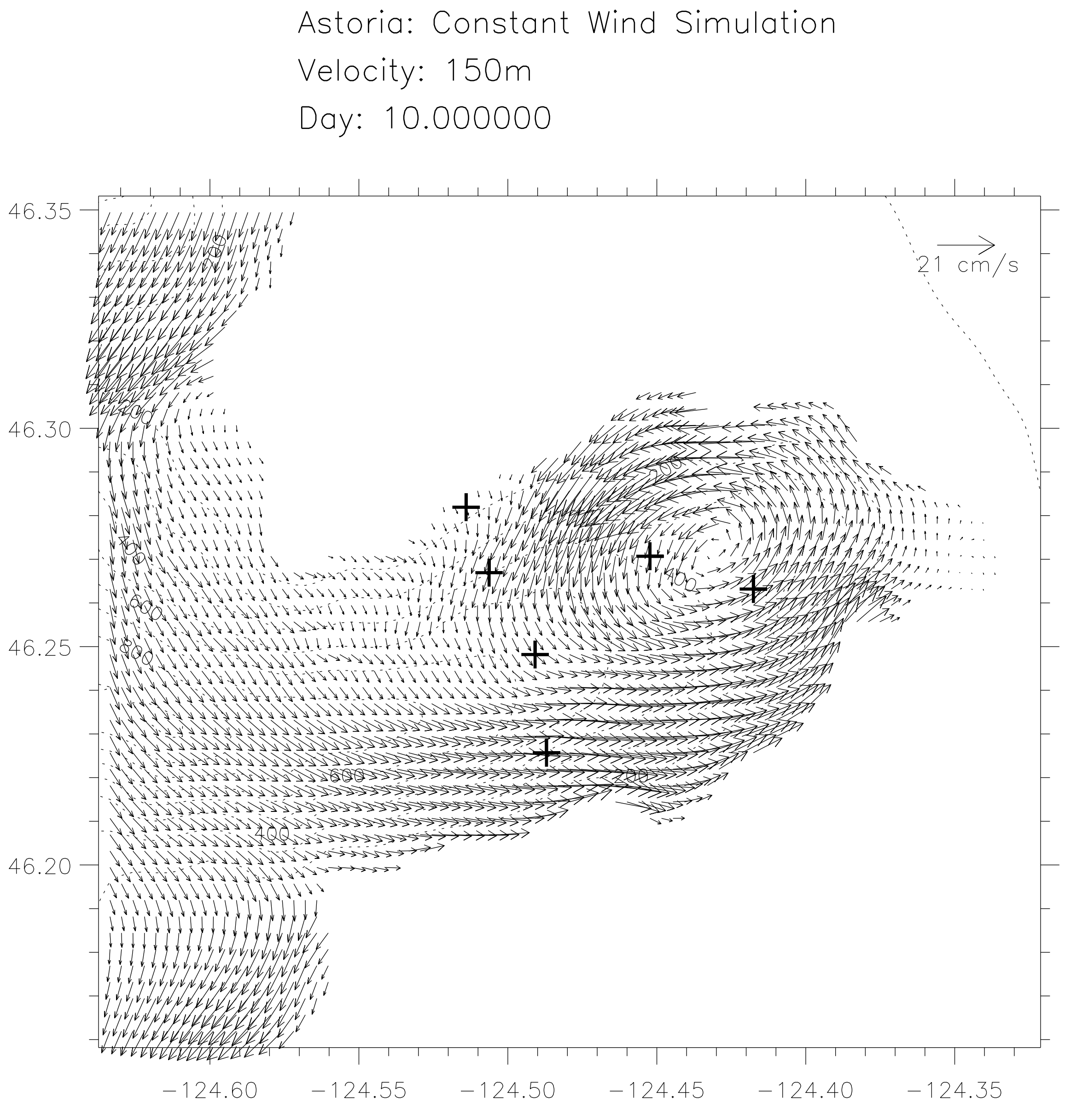
5. Exploded view of the model bathymetry around Astoria Canyon. The crosses represent the location of the current meter moorings.



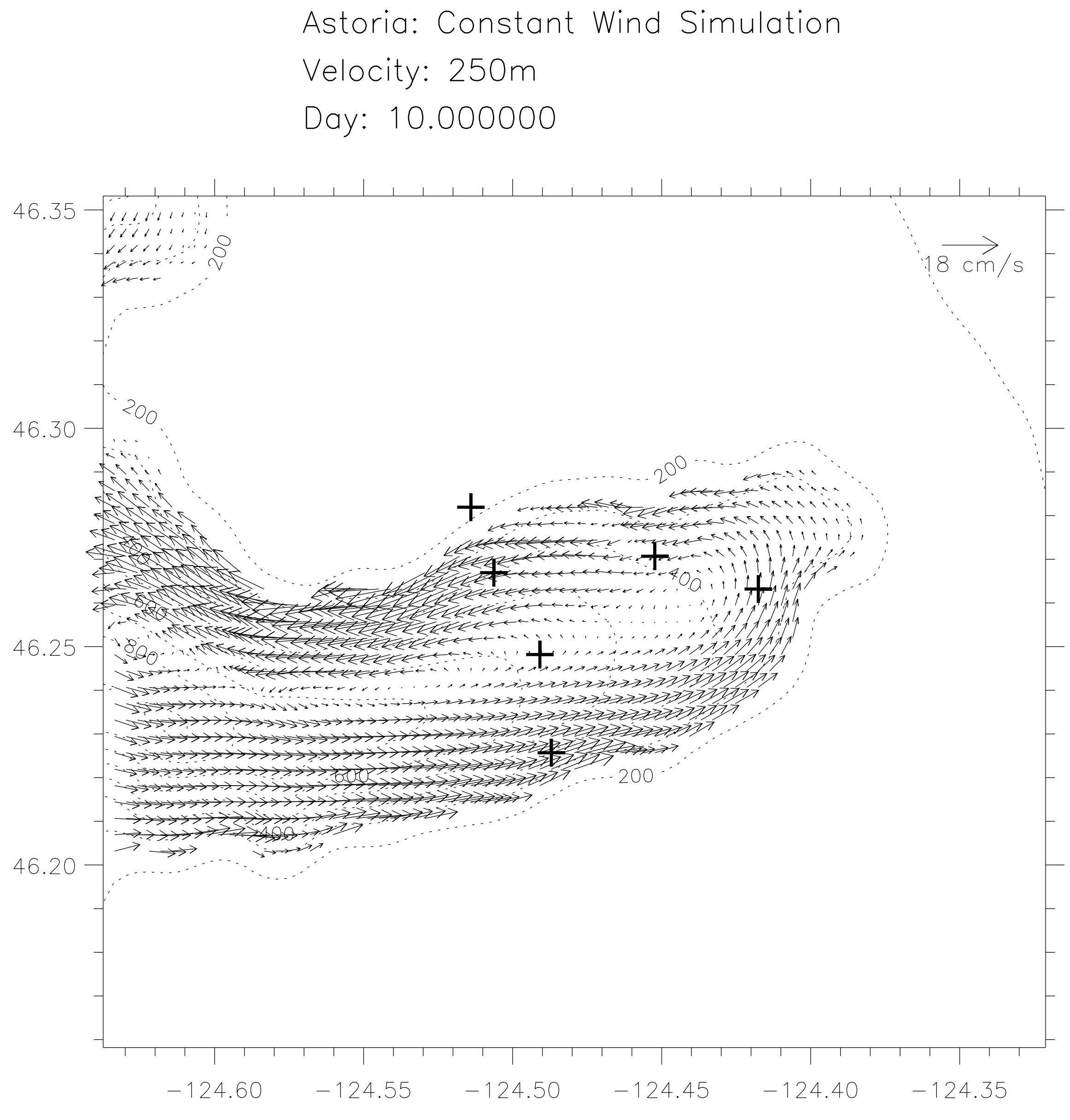
6. Mean velocity vectors (23 May - 3 June 1983) from the observations. The small number at the head of each vector is the measurement depth in meters.



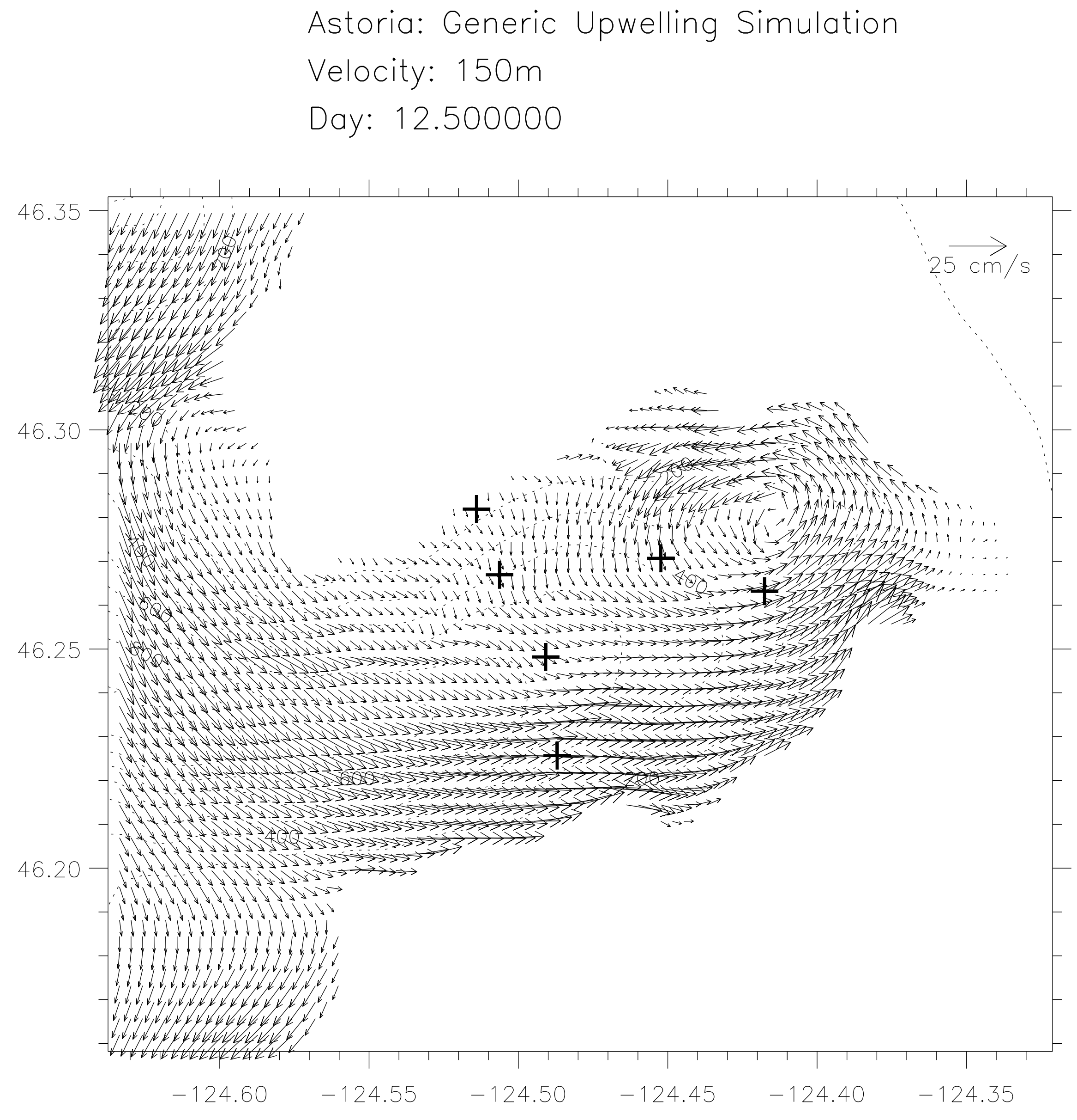
7. Vectors of the model velocity interpolated to the same points as the observations. These values are from d10 of the simulation. The flow in the canyon is almost at a steady state at this point and this figure does not look much different when the data is taken from later days. The small number at the head of each vector is the measurement depth in meters.



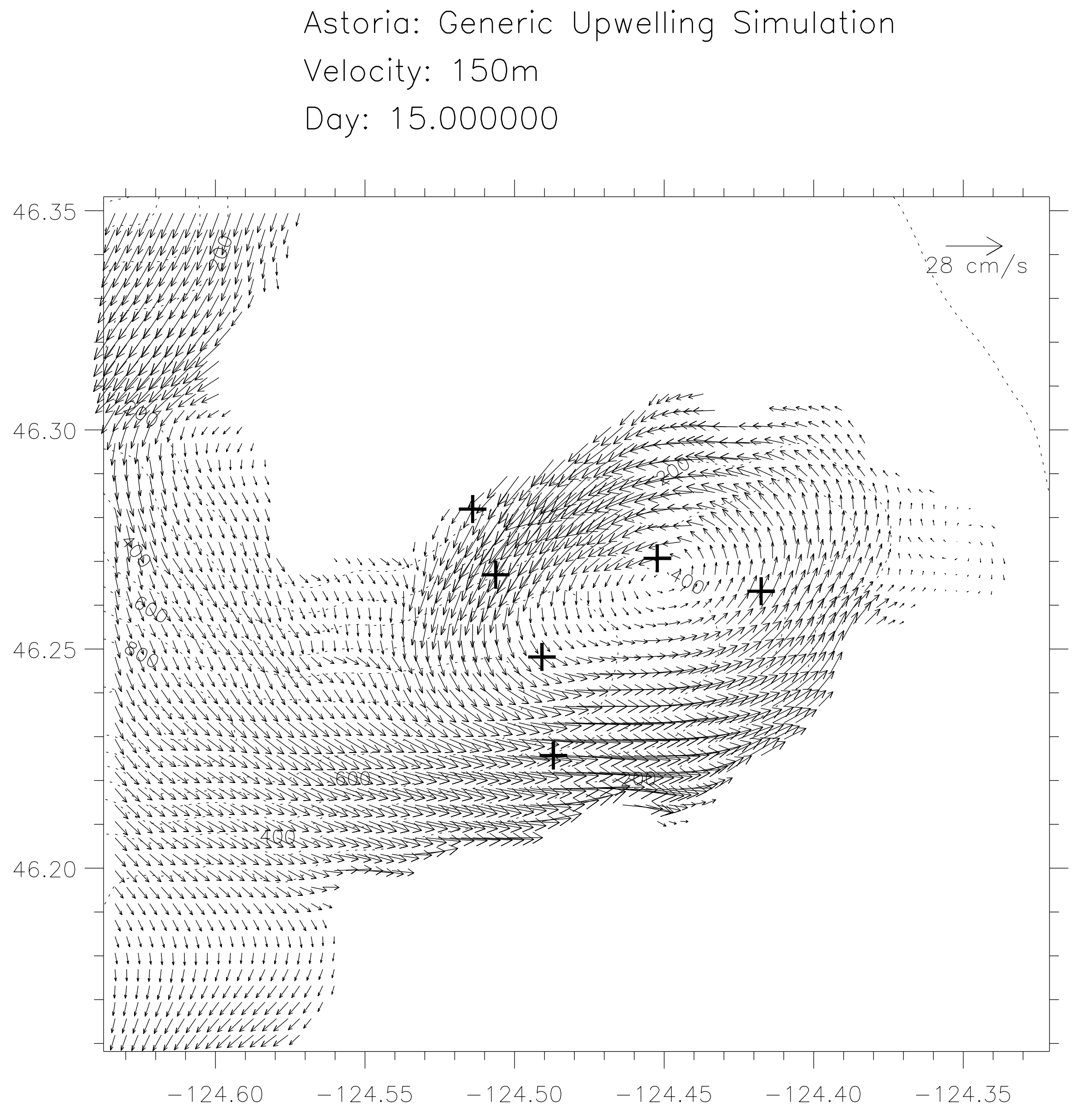
8a. Exploded view of model velocity field in Astoria Canyon at 150m after 10d. The crosses represent the location of the current meter moorings.



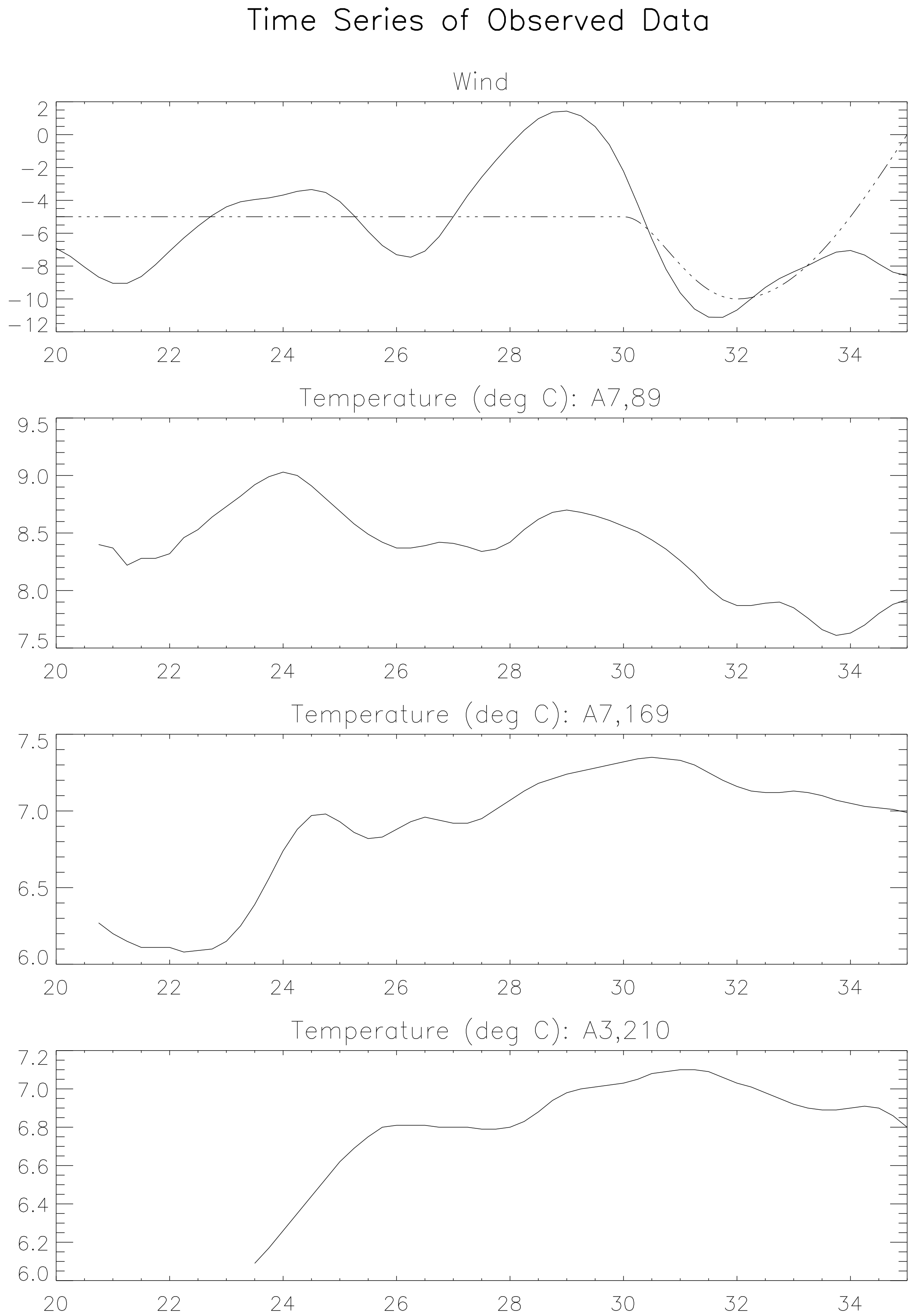
8b. Exploded view of model velocity field in Astoria Canyon at 250m after 10d.



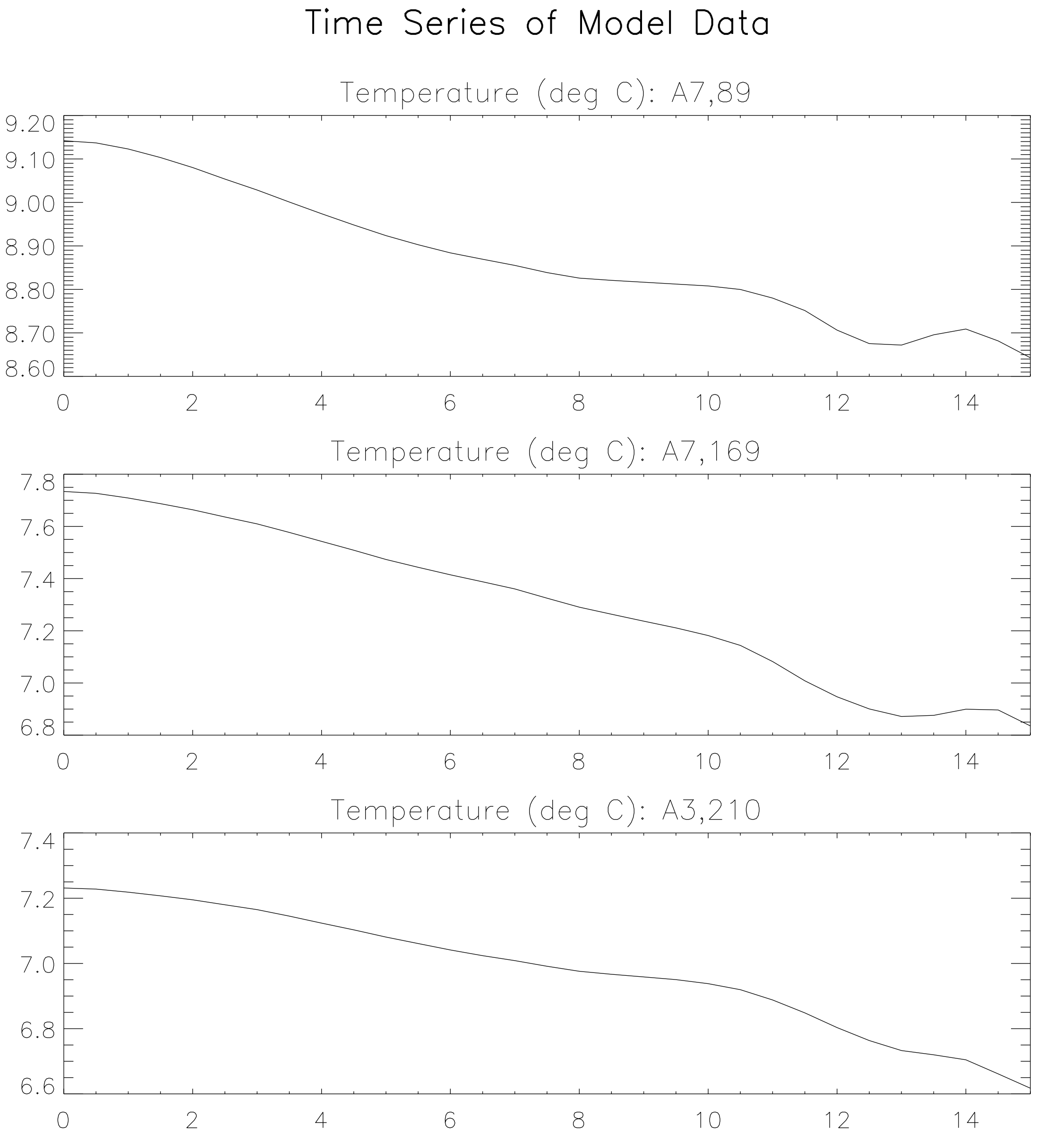
9a. Model velocity field in the canyon at peak upwelling (slightly after maximum upwelling wind) for the generic upwelling event simulation.



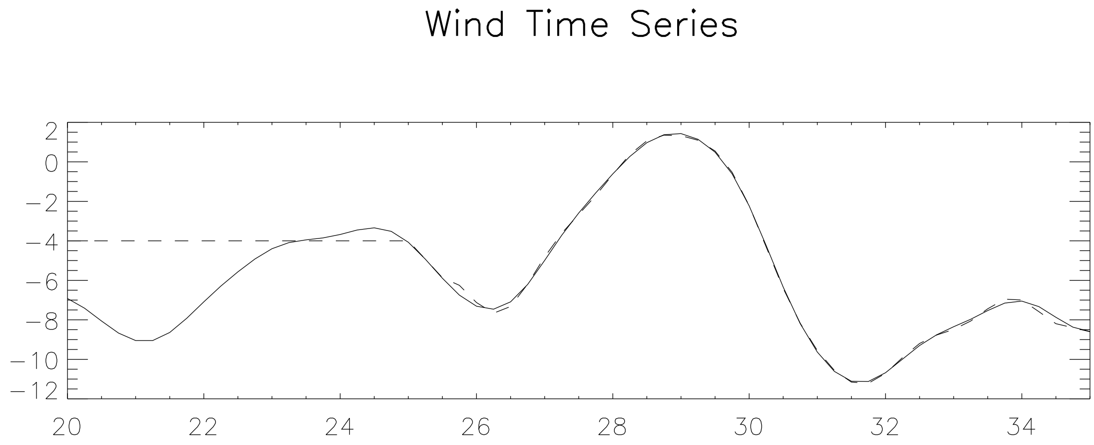
9b. Model velocity field in the canyon after wind relaxation for the generic upwelling event simulation.



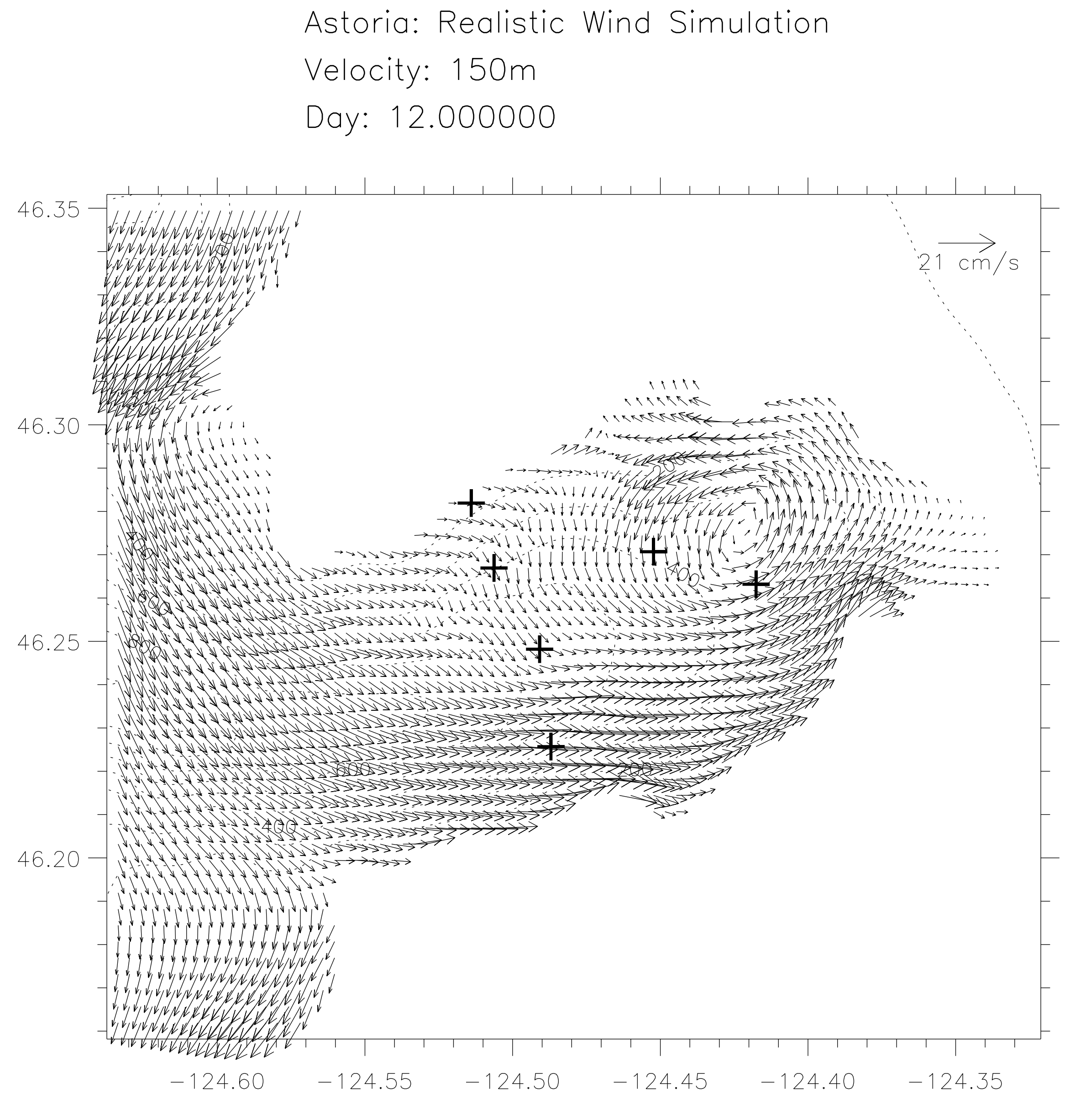
10. The top figure is the (estimated) wind (m/s) over the model domain in late May-early June 1983. The number on the horizontal axis represents the number of days after 30 April 1983. The dashed line is the wind profile used for the generic upwelling event simulation. The bottom three plots are time histories of observed temperature at different stations.



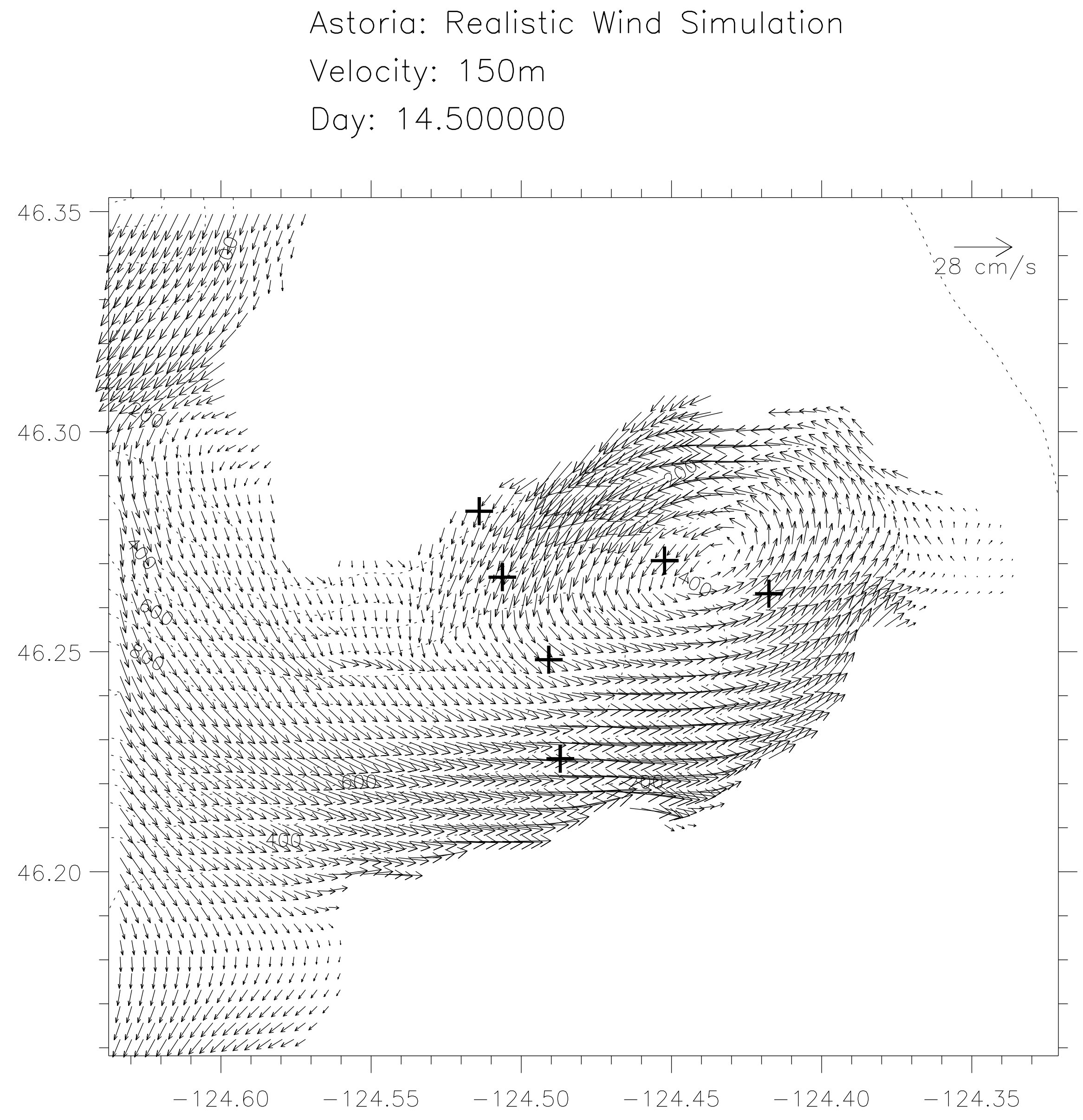
11. Time histories of model temperatures (for the generic upwelling simulation) interpolated to the same stations as in Figure 10.



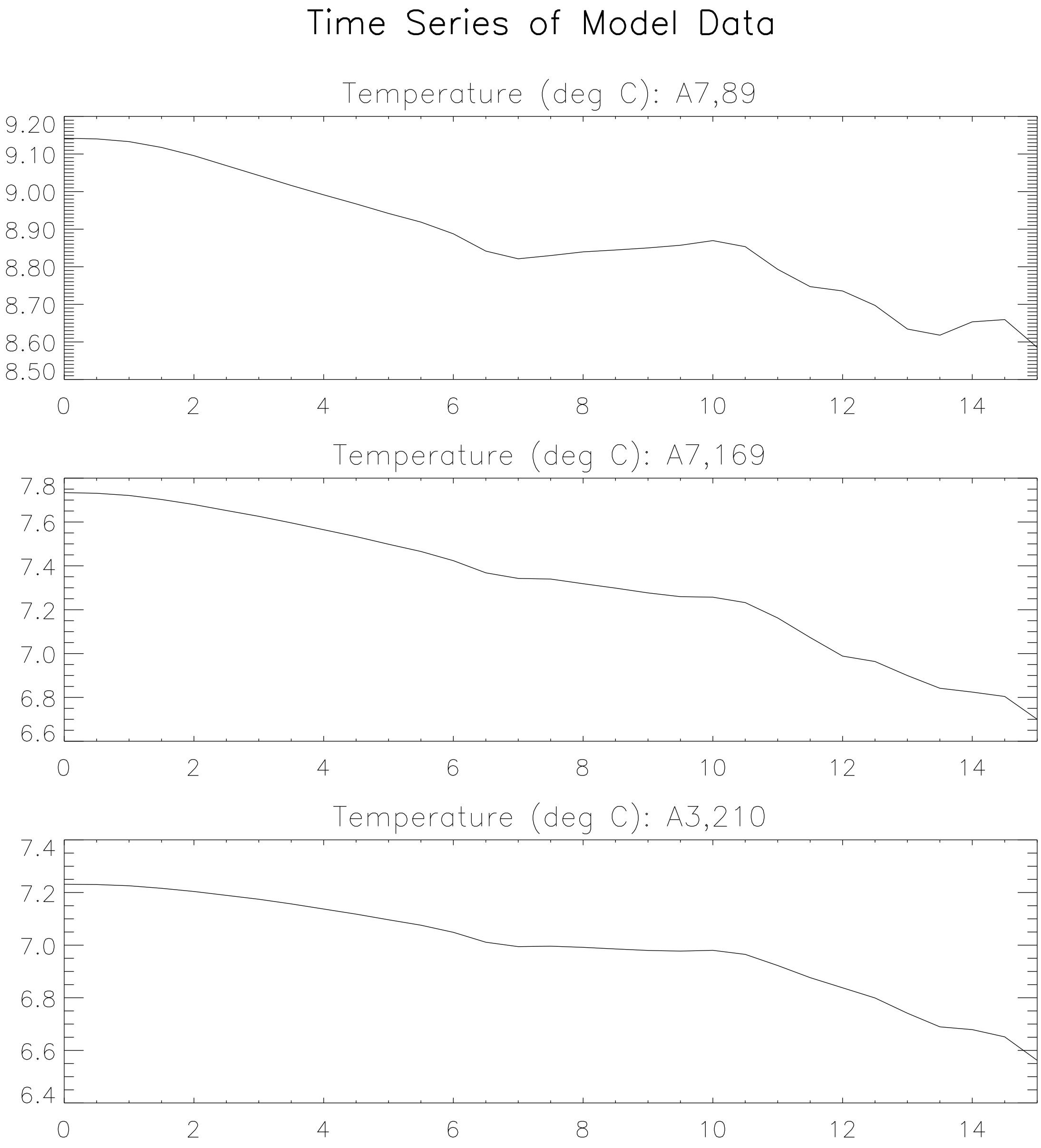
12. The solid line is the (estimated) wind (m/s) over the model domain. The dashed line is the wind profile used for the realistic wind simulation.



13a. Model velocity field in the canyon at peak upwelling (slightly after maximum upwelling wind) for the realistic wind simulation.



13b. Model velocity field in the canyon after wind relaxation for the realistic wind simulation.



14. Time histories of model temperatures (for the realistic wind simulation) interpolated to the same stations as in Figure 10. Note that the model wind profile doesn't match the observations until after day 5.

2. Model velocity field at 50m after 10d.

3. Model velocity field at 150m after 10d.

4. Model velocity field at 250m after 10d.