**Electronic Supplement to   
OBSrange: A new tool for the precise remote location of Ocean Bottom Seismometers**

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This electronic supplement includes two figures. Figure S1 shows geostrophic flow and dynamic sea level (sea-surface height relative to the geoid) in the Young Pacific ORCA region during and directly following the deployment (see the link in Data and Resources for complete information about these data). The deployment took place from April 16-29, 2018. Figure S2 shows the diminishing improvement in horizontal misfit with increasing survey radius for the PACMAN survey geometry.

**Figures**

**Figure S1.** Seven-day average dynamic sea level and the associated geostrophic flow in the Young Pacific ORCA region. (left) average flow patterns approximately during the middle of the deployment from April 21-17 and (right) immediately following the deployment from April 29 – May 5. There is a clear cyclonic (clockwise) pattern in the geostrophic flow field associated with a low-pressure system sweeping across the deployment region. The flow pattern is of a scale and direction consistent with our observations of instrument drift.

**Figure S2.** Decrease in horizontal misfit, δ*rxy*, as a function of survey radius for the PACMAN geometry. The functional form of the best-fit curve in black is shown in the top right corner. The slope of this curve is the parameter ∇*rxy* in Figure 8e. For a reference to symbol colors, see Figure 8 in the main text.