Abstract

Current capabilities will be presented for:

a) Measuring 3 second directional wave spectra in 15 meters water depth, or 5 second directional wave spectra in 40 meters water depth.

b) Unambiguously identifying the effect of current on Non-Directional Spectra with an acoustic range to surface measurement.

c) Correcting for current with the Doppler shifted dispersion relationship and potentially avoiding ~ 25% error in $H_s$ when 1 meter/second currents are present.

d) Using the sparse array of 12 velocity sensors from the ADCP (Acoustic Doppler Current Profiler) janus beam pattern for estimating the directional distribution.