



“Knowing your Site and Sticking To It”

Biography: Dr. Alex Hay, Dalhousie University

Alex Hay’s research interests are in oceanographic processes on the continental shelf from the nearshore to the base of the continental margin, with a particular interest in studying the real ocean using acoustic remote sensing techniques. He uses and develops high-frequency acoustic systems for investigating momentum and material fluxes in the bottom boundary layer and for imaging the temporal evolution of the seafloor on a range of time scales, and during storms in particular. After his doctoral studies of turbidity currents at the University of British Columbia, he joined the Department of Physics at Memorial University of Newfoundland, and in 1996 took up a chair in ocean acoustic technology in the Department of Oceanography at Dalhousie University. His current research is focused mainly on sediment dynamics in wave-dominated environments, the development of high-resolution acoustic Doppler systems, sound scattering and propagation in turbulent suspensions, and the investigation of tidal channel flow variability in relation to tidal power development. Dr. Hay is Killam Professor of Oceanography at Dalhousie, and a Fellow of the Acoustical Society of America.