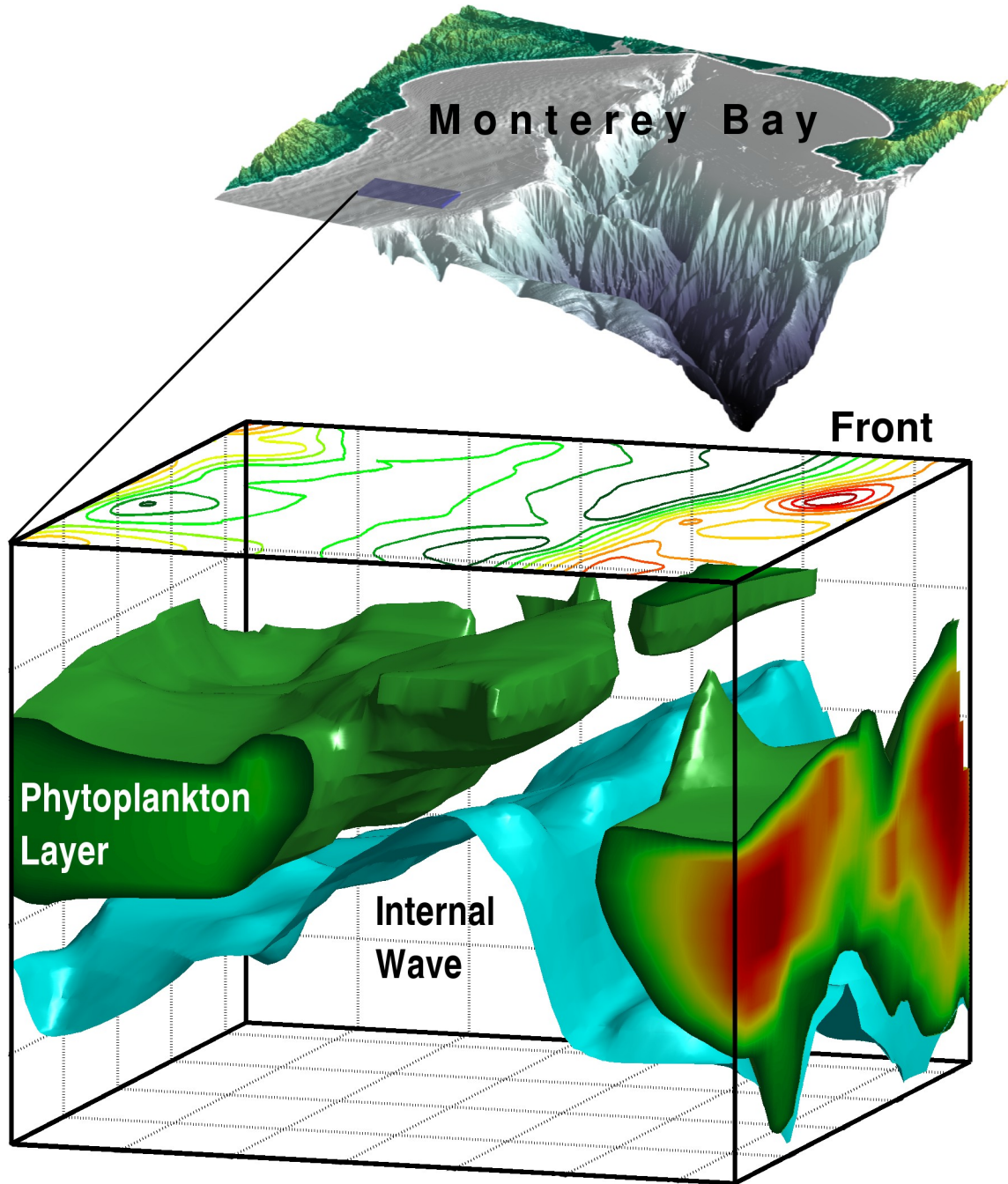


Plankton and Internal Waves



This image illustrates a phytoplankton layer mapped by AUV during a volume survey on the northern Monterey Bay shelf. The volume is 6.5 km x 2.5 km x 25 m. The AUV's rapid sampling capability and interdisciplinary sensor suite enabled unprecedented resolution of the coupling between ocean physics and the structure of the phytoplankton community across a frontal zone. Viewed from the deck of the ship, the front was evident as a surface slick. The image shows disruption of a phytoplankton layer by the crest of an internal wave and concentration of the phytoplankton in the trough of the internal wave. These observations were published in *Marine Ecology Progress Series*.