

Station Name:

A-line

**Type of Station (moored / ship-based) and Location
(geographic region / latitude and longitude coordinates):**

Ship-based : 21 stations along the section across the Oyashio region
(from 42°50'N, 144°50'E to 38°00'N, 147°15'E)

Among these stations, carbon measurements are operated at three stations (Stns. A4:
42°15'N, 145°07.5'E; A7: 41°30'N, 145°30'E, A11: 40°30'N, 146°00'E)

**Carbon and biogeochemistry measurements at the station
(indicate the frequency of observations, the year measurements began, and if they
are surface / full water column, etc.):**

Frequency: 5-6 visits /year

Initiation : 1988 for hydrographic & biological measurement
1996 for carbon measurement

Measurements Items: 22-layer water column samples from 10m to 300m
(from 1988 to 2001 : 12 layers from 0 to 200m)

CTD, bottle-salinity, bottle-DO, nutrients (PO₄, NO₃, NO₂, Si), Chla, Zooplankton
abundance & species composition, DIC (1996~), Talk (1996~), diatom species
composition (2004~), bacteria abundance (2004~), picoplankton abundance (2004~)

Principle Investigators / Contact Points:

Project PI: Tsuneo Ono (HNF/FRA)

**Affiliation of this station with national, regional, or global research programs and
process studies:**

This section is sponsored by the Agriculture, Forestry and Fisheries Research Council ,
Japan

Web-site or links to other information:

A-line database HP (http://hnf.fra.affrc.go.jp/a-line/index_e.html)