PICES-P0MA Award for 2011

Goes to

NFRDI Serial Oceanographic Observation in Korean Waters (NSO)

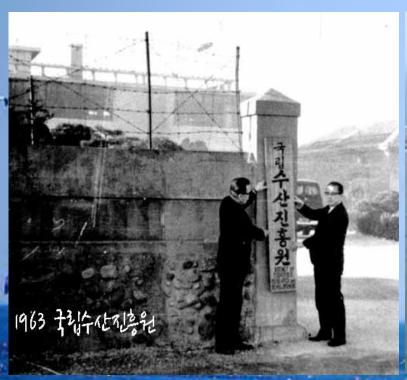
NFRDI Serial Oceanographic Observation (NSO)

has been carried out for the purposes of:

- Understanding the climatic variability and oceanographic condition
- Appreciating the fishing ground Environment and anthropogenic effects around Korea

Predecessor of NFRDI in 1963

Present NFRDI





NSO has been a Key monitoring system in the marginal seas of the Northwest Pacific



Bukhansan (1960's)



Tamgu-3 (1990's)



Tamgu-20 (2010's)



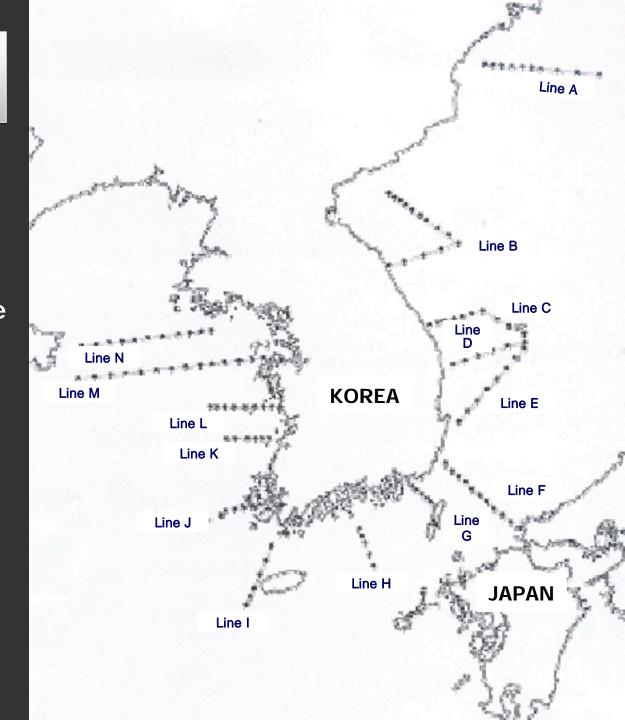
Tamgu-1 (2000's)

Research Vessels for NSO

NSO before 1960 (Period-)

 1917: six observation lines were started to be surveyed (A, B, C, D, E, F)

1935: added 8 lines (expanded to North Pacific and East China Sea)



Field Note and Cruise Report (Period-)

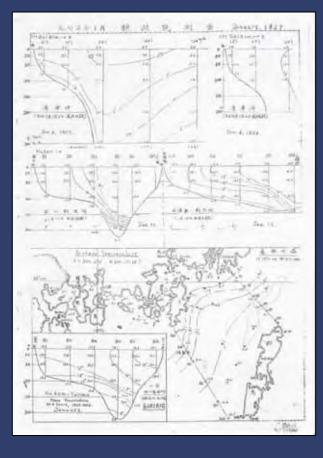
Screening Table of Salinity, Oxygen and Phosphoric acid during 1931-1934



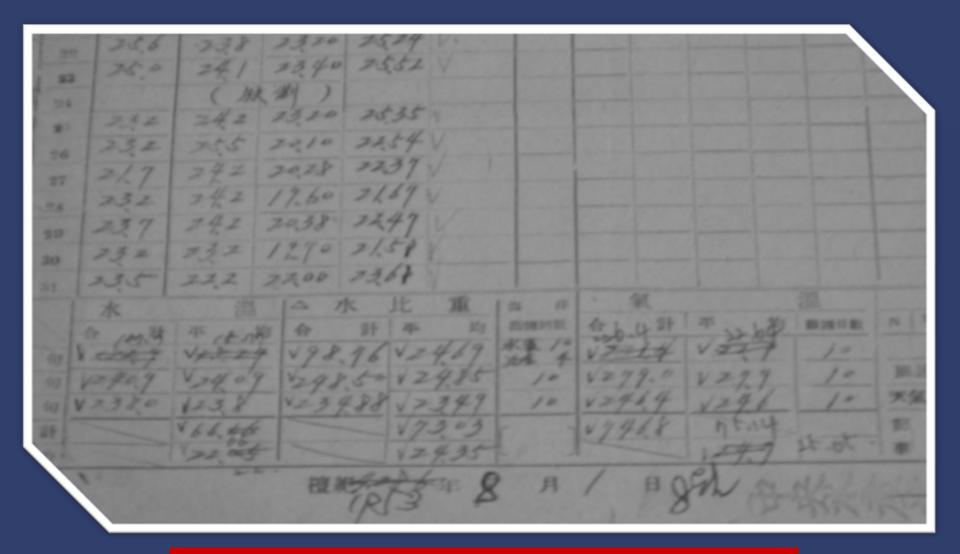


Field note of hydrographical observations in 1933

Sample of spatial and vertical temperature distribution in 1927

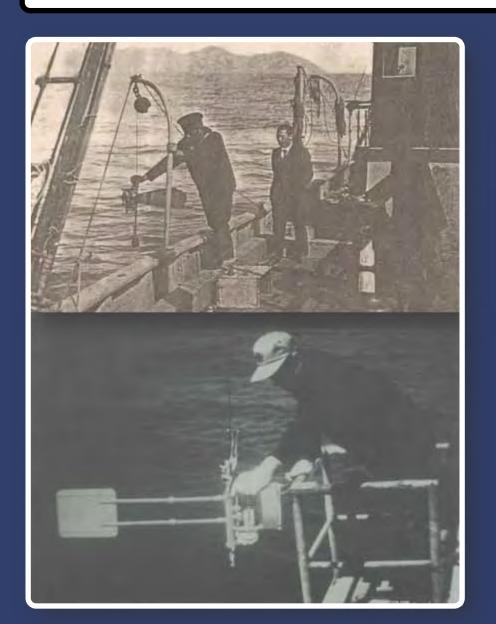


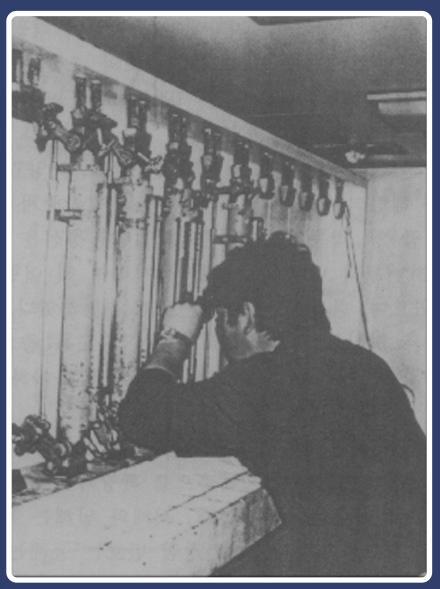
Field Note and Cruise Report (Period-)



Sample of Field Note in 1953 (During the Korean War)

Field Note and Cruise Report (Period-)





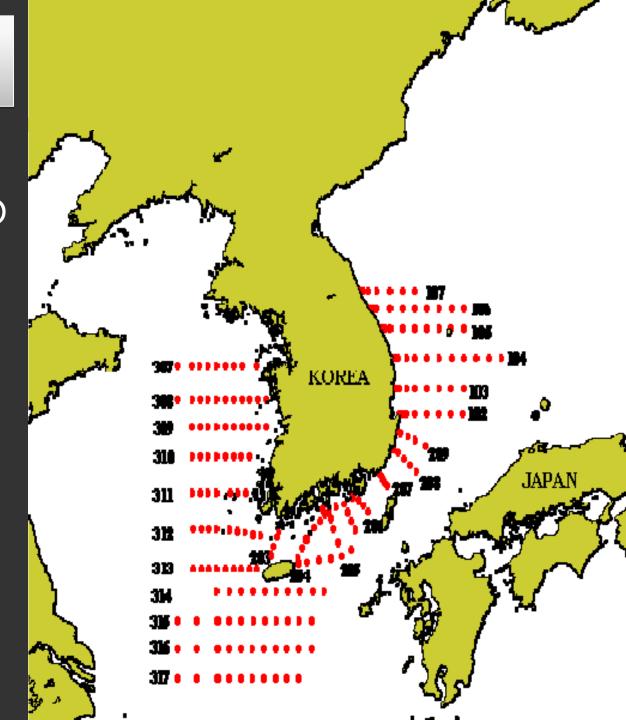
Field Note and Cruise Report (Period-)



NSO after 1961 (Period-)

- 1961: reorganized the observation lines (22 lines, 6 times/year)
- 1995: 2 lines were added (315, 316)
- 2000: 1 line was added (317)

NSO carry out the serial oceanographic investigation on 196 stations at 6 or 4 times/year





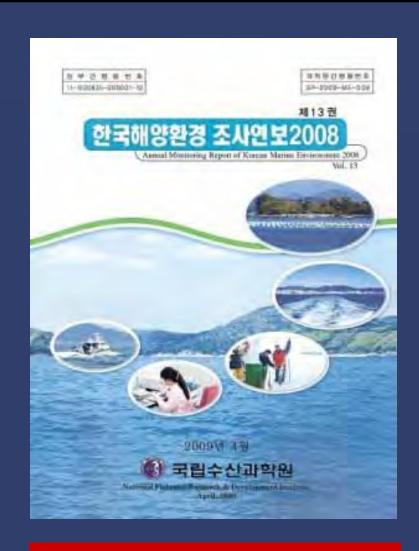






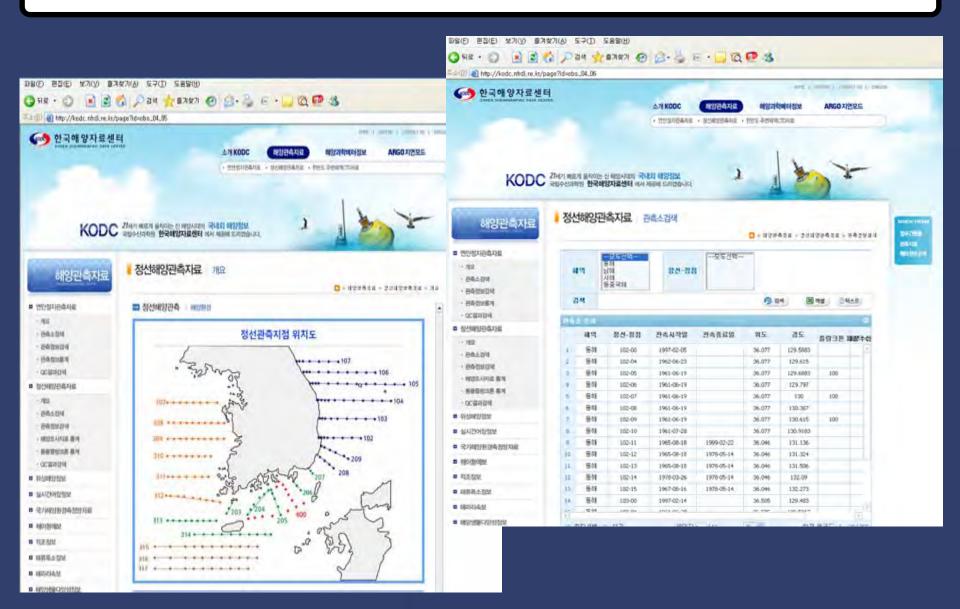
Offline Data Service by KODC (Period-)

- Annual reports of NSO have been published every year since 1952
- including reference level data for the SST, salinity, dissolved oxygen, the nutrients, zooplankton and meteorological factors

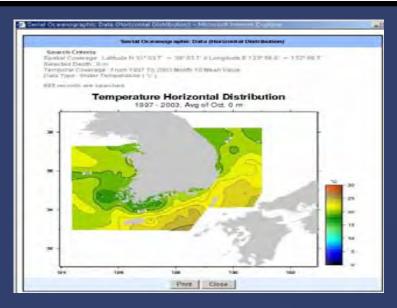


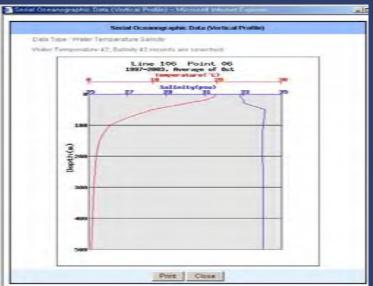
Annual reports of NSO

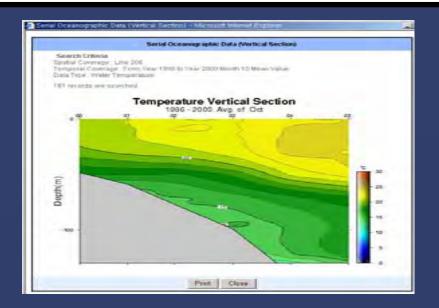
Online Data Service by KODC (Period-)

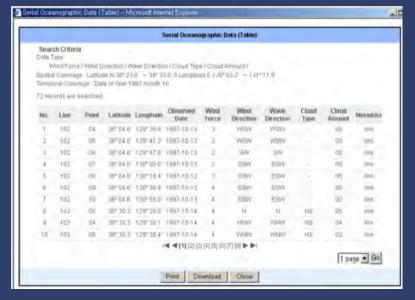


Online Data Service by KODC (Period-)







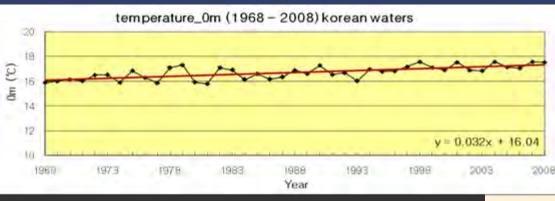




NSO has supported domestic and international researchers to share NSO data

Fishing conditions in Korea waters have been forecasted based on NSO data

Accomplishment of NSO



- NSO data are used for academic purpose
- Research results are utilized for marine and fisheries policy issues by policy makers
- Long-term NSO has derived valuable result for climate research in Korea



Over 90 years, many organizations have helped to maintain NSO...

