

DRIFTING BUOY SYSTEM

BRIEF DESCRIPTION:

Drifting buoys are widely deployed to measure near surface ocean currents and temperature. Drifting buoy was indigenized in India with geostationary satellite communication (INSAT communication) to have near real-time data at every hour. The measurement scheme in the drifting buoys is capable to measure variability in sea surface temperature and small mesoscale surface eddies. The drifter buoys and agro floats technologies were developed with an objective to understand the circulation pattern in Indian Seas and to study the air sea interaction process. Even useful to study the role of ocean in climate variability and El-Nino. These equipments quantitatively describe the upper ocean dynamics and the patterns of ocean climate variability. This information is essential to document seasonal to decadal climate variability and its predictability

ADVANTAGE:

- Durable ABS/ Acetal moulded float
- Components with proven, micropower parametric measurement.
- Data forwarding electronics
- A choice of parameters for measurements, long power autonomy and customizable transmission parameters
- To initialize ocean & coupled ocean-atmosphere forecast
- Better understanding of ocean dynamics and air-sea interaction

Scale of development: Demonstrated and commercialized

