

Uses of Mobile AtoN

Contents

I

INTRODUCTION

II

USES OF MAtoN

III

OPINION



Ministry of Oceans
and Fisheries

INTRODUCTION

PURPOSE

- Introduction for Uses of MAtaN in Korea
- Introduction for improvement of operating problem

DEFINITION

- A Mobile AtoN(MAtaN) shall be defined as a non-fixed or un-moored AtoN; but does not include a fixed or moored buoy that is a drift from station.

TYPE

- PHYSICAL – Mobile buoy
- VIRTUAL – Mobile virtual AIS

Uses of MAtoN(1)

ODAS

Ocean Data Acquisition System

- Research on sea and tidal current
- Following the route of dangerous weather condition



[ODAS 이동경로]



[부표 사진]

Uses of MAtaN(1)

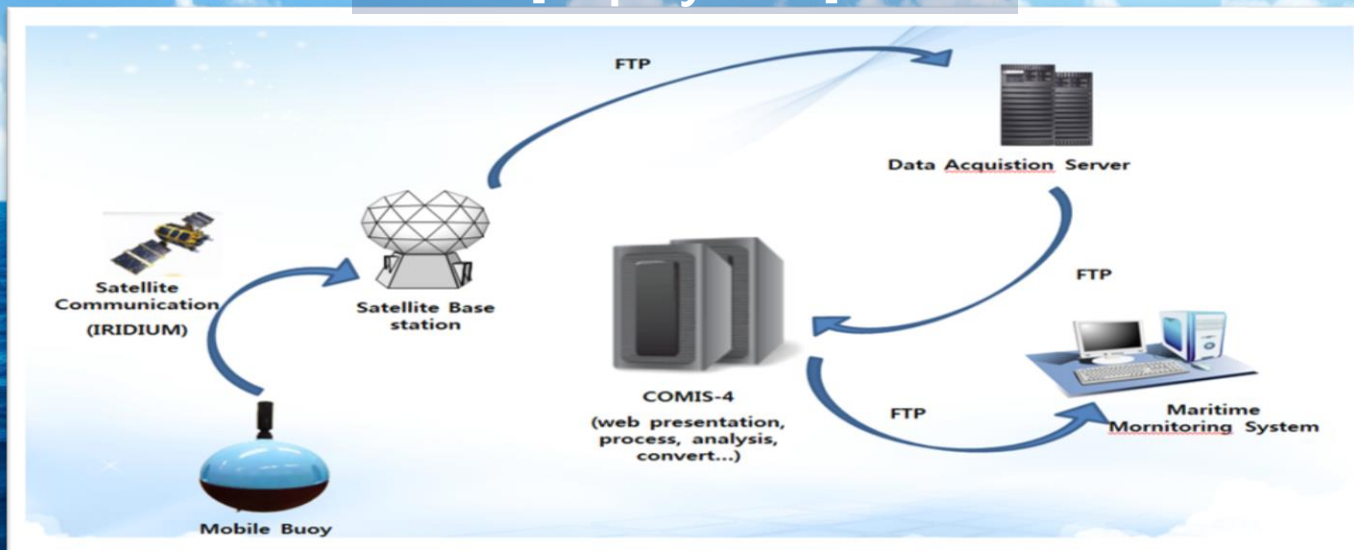
Name	Drift Buoy
Observe	Significant wave height, Period of wave, Temperature, Air pressure, etc.
Communication	Satellite COMM.(Iridium), CDMA/ COMM. interval 20mins
Position	Estimation route of dangerous weather, monitoring shadow zone, Disaster occurred area
Deployment	Drop from the vessel
Composition	Main body, sensing element, Communication element, Power supply, Navigational safety element, Data collection and processing element



Uses of MAtoN(1)



[Deployment]



[Communication System]

Uses of MAtoN(2)

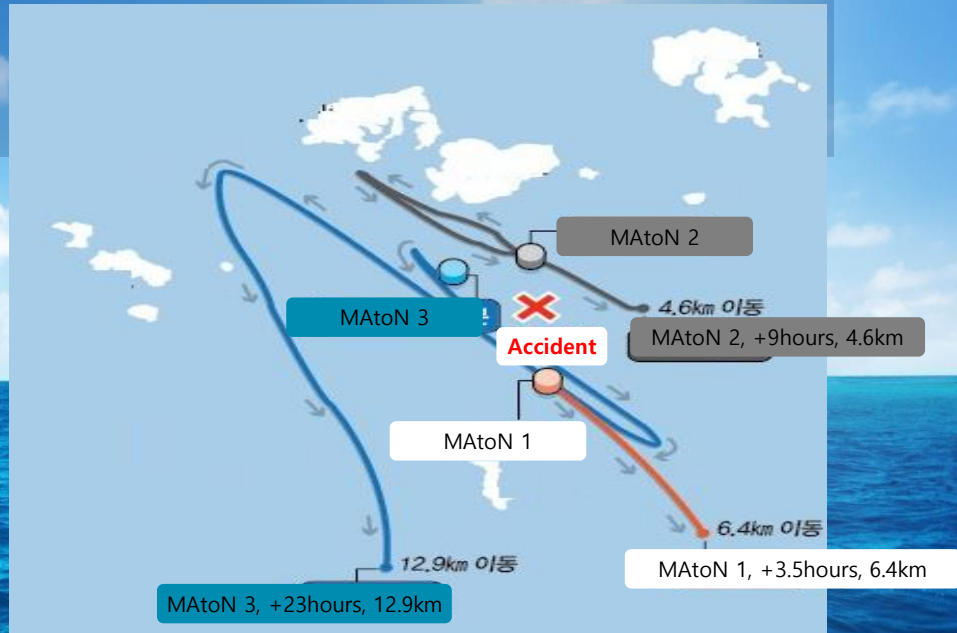
SAR

Search And Rescue

- Search and rescue for missing person



[Picture of tracking missing person]



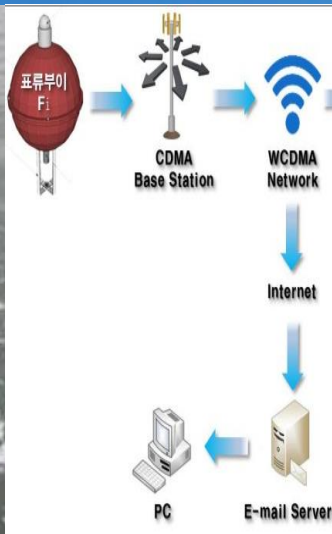
[Tracking path of MAtoN]

Uses of MAtoN(3)

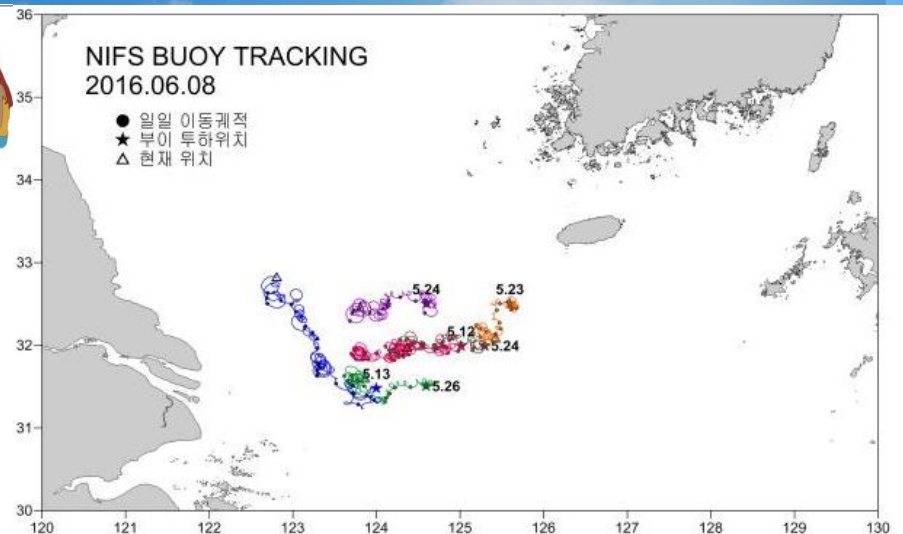
Monitoring

Water quality & pollution monitoring and Tracking Dangerous things

- Monitoring and tracking of pollution or dangerous things



[Tracking Water Pollutants]



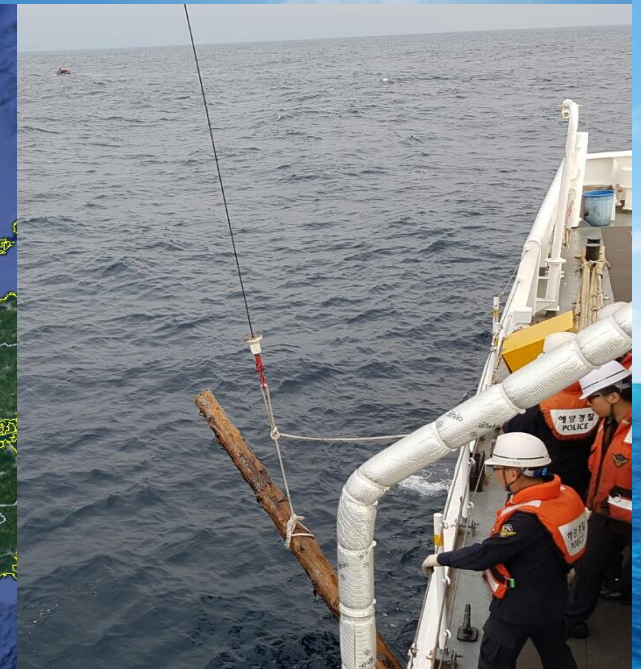
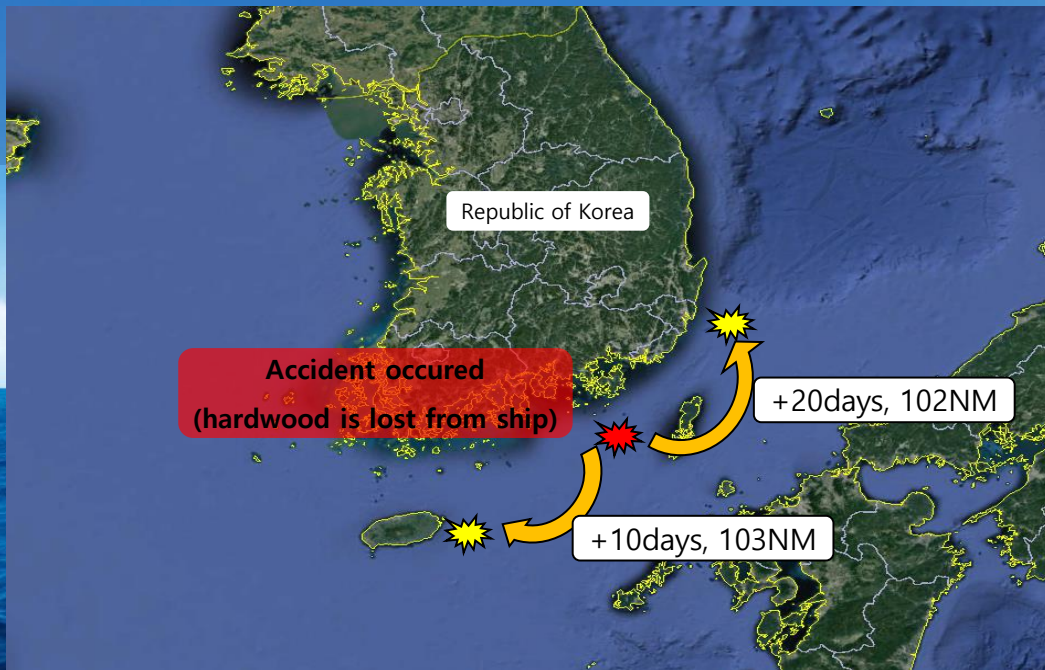
[Tracking jellyfish]

Uses of MAtoN(4)

Marking of Wrecks

Marking of Drifting Wreckage

- Mark on drifting wreckage



[Example case of Drifting Wreckage]

OPINION

