



UBIQUITOUS NAVIGATION
EVERYWHERE IN EVERY POSSIBLE WAY



The Applications of BeiDou in Vessel Monitoring and Management



International Committee on
Global Navigation Satellite Systems

Background

- Situation of Vessel Monitoring at Home and Abroad
- Advantages of BeiDou in Vessel Monitoring

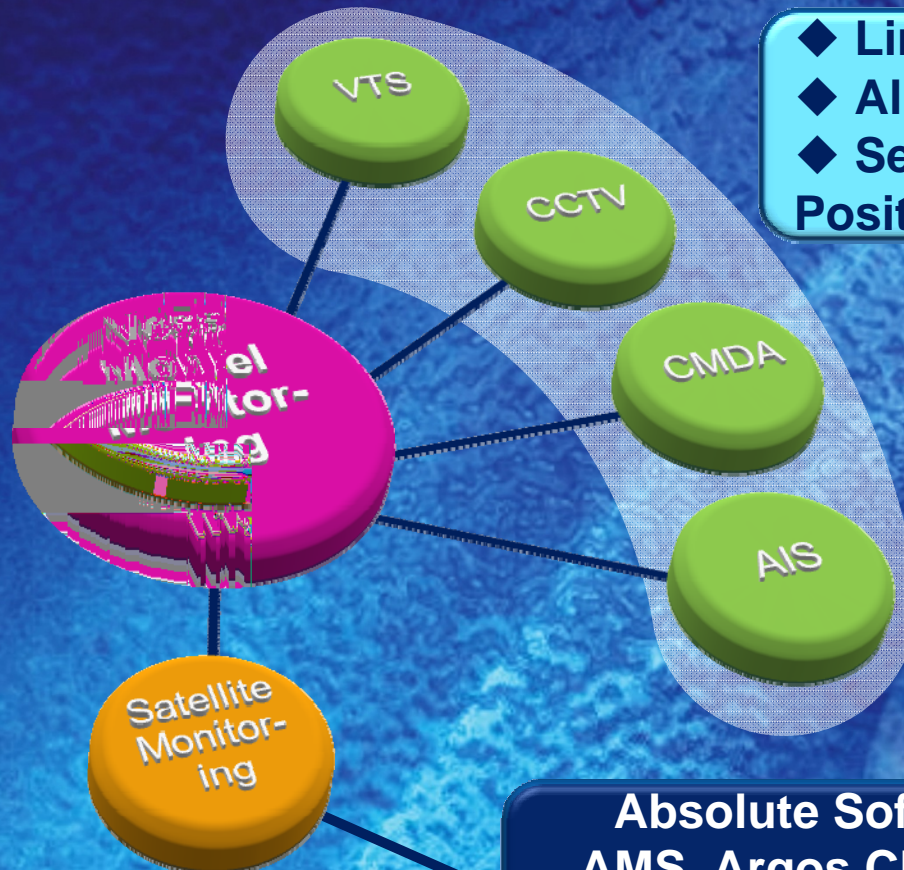
BeiDou and Vessel Monitoring

- Application Mode of BeiDou in Vessel Monitoring
- Services Frame Provided by BeiDou VMS
- Services Provided by BeiDou VMS

Conclusion

- BeiDou is Notably Applicable to Vessel Monitoring

Situation of Vessel Monitoring at Home and Abroad

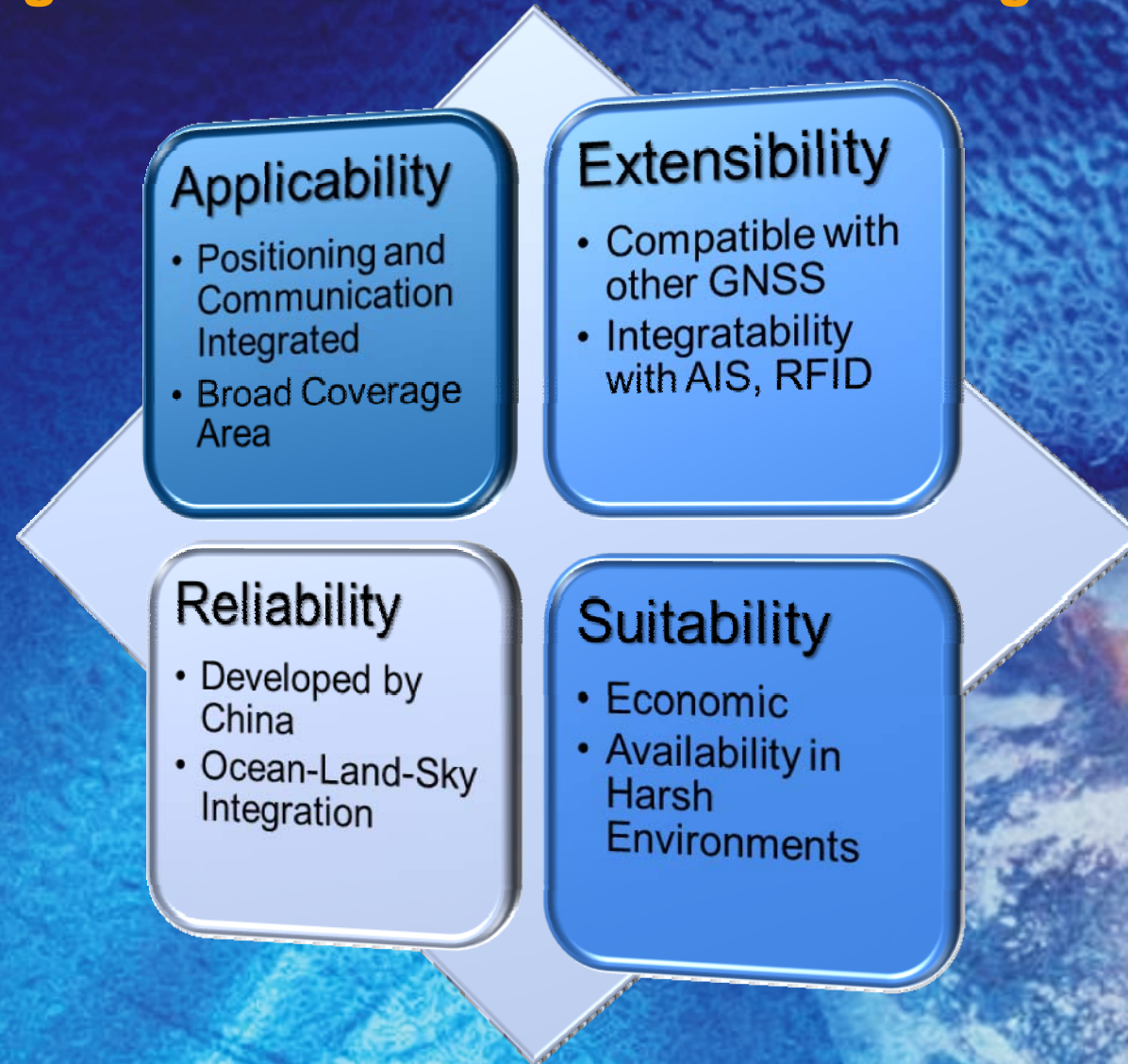


- ◆ Limited Coverage Area
- ◆ All-day Service Impossible
- ◆ Separation between Positioning and Communication

- ◆ Separation between Positioning and Communication
- ◆ Expensive

**Absolute Software,
AMS, Argos CLS, AST
Ltd,
Free Port-Eye from a sky**

Advantages of BeiDou in Vessel Monitoring

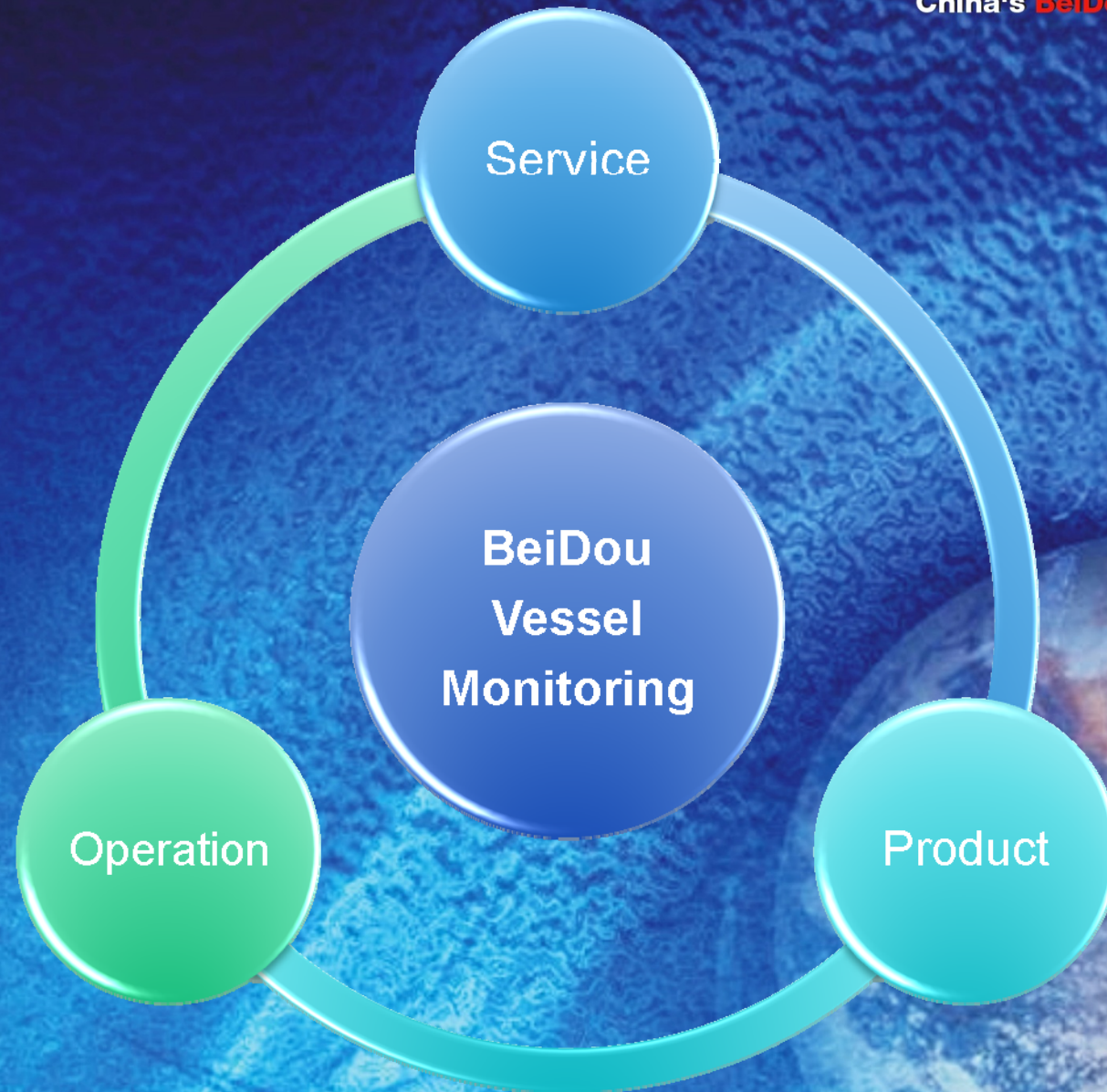




Application Mode of BeiDou in Vessel Monitoring



China's **BeiDou** World's **Compass**

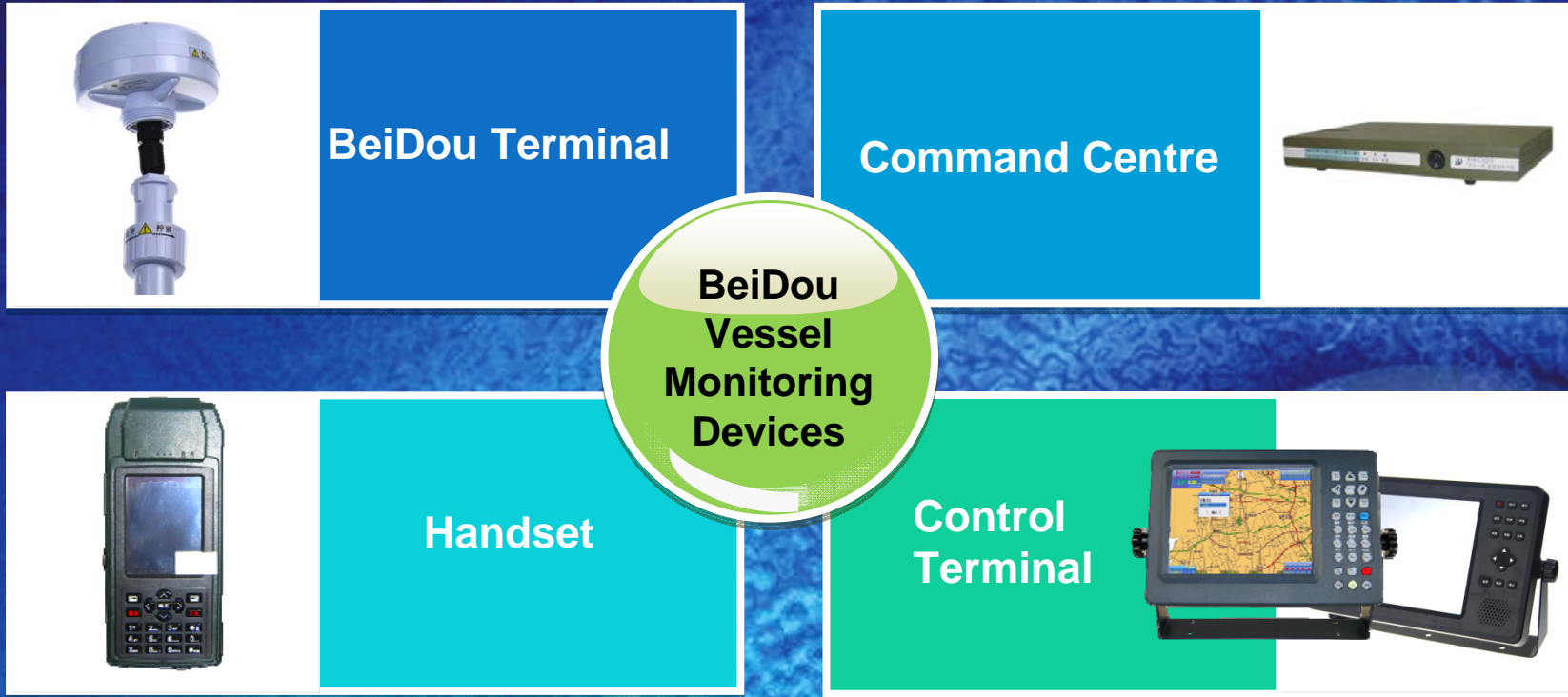




Application Mode of BeiDou in Vessel Monitoring



China's **BeiDou** World's **Compass**

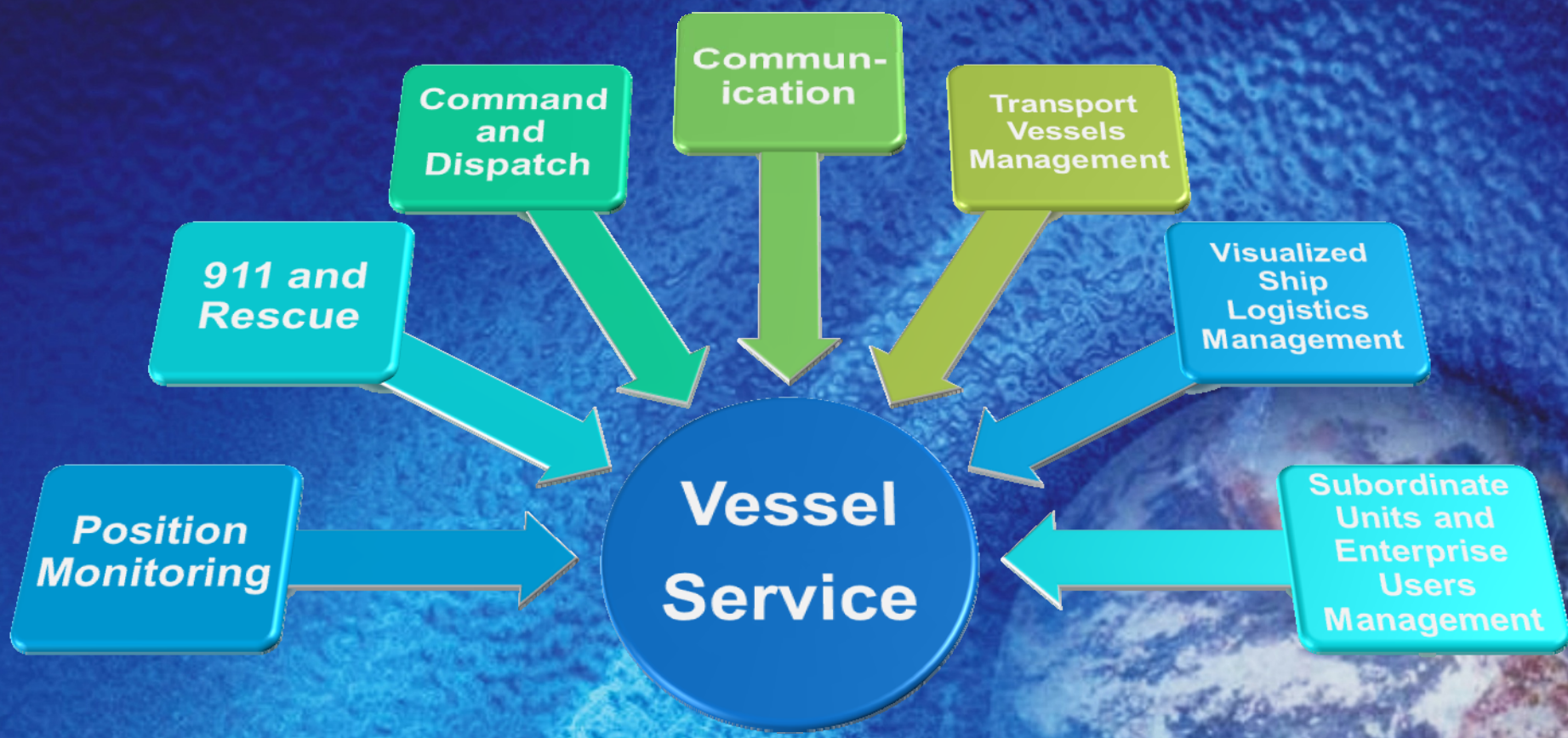




Services Frame Provided by BeiDou VMS



China's BeiDou World's Compass



Inland shipping (Lancang Jiang (Mekong River)): RS + 3D Image + BeiDou

China's **BeiDou** World's **Compass**

公安边防部队澜沧江-湄公河船舶监控系统

影像操作 北斗通信 管理功能 查询统计 系统配置

短信统计 报警统计 航迹查询 里程查看

查询统计 里程管理

船舶列表

搜索
请输入北斗卡号或船舶名称:
 搜索


船舶信息

名称	状态
公安边防部队	在线(0)
航运企业	在线(33)
航运企业	在线(33)
299004	离线
洪利号(吨位:260)	在线
299073	离线
顺安6号(吨位:2...	离线
嘉煌号	离线
弘阳(吨位:117)	离线
299104	离线
永鑫9号(吨位...	在线
嘉顺1号	离线
299140	离线
299215	离线
299345	离线

船舶列表 图层控制 三维控制

短信列表

当前用户:sszd 在线船舶数:33 服务器状态:正常 当前位置:经度 100° 05' 02", 纬度 20° 20' 23"

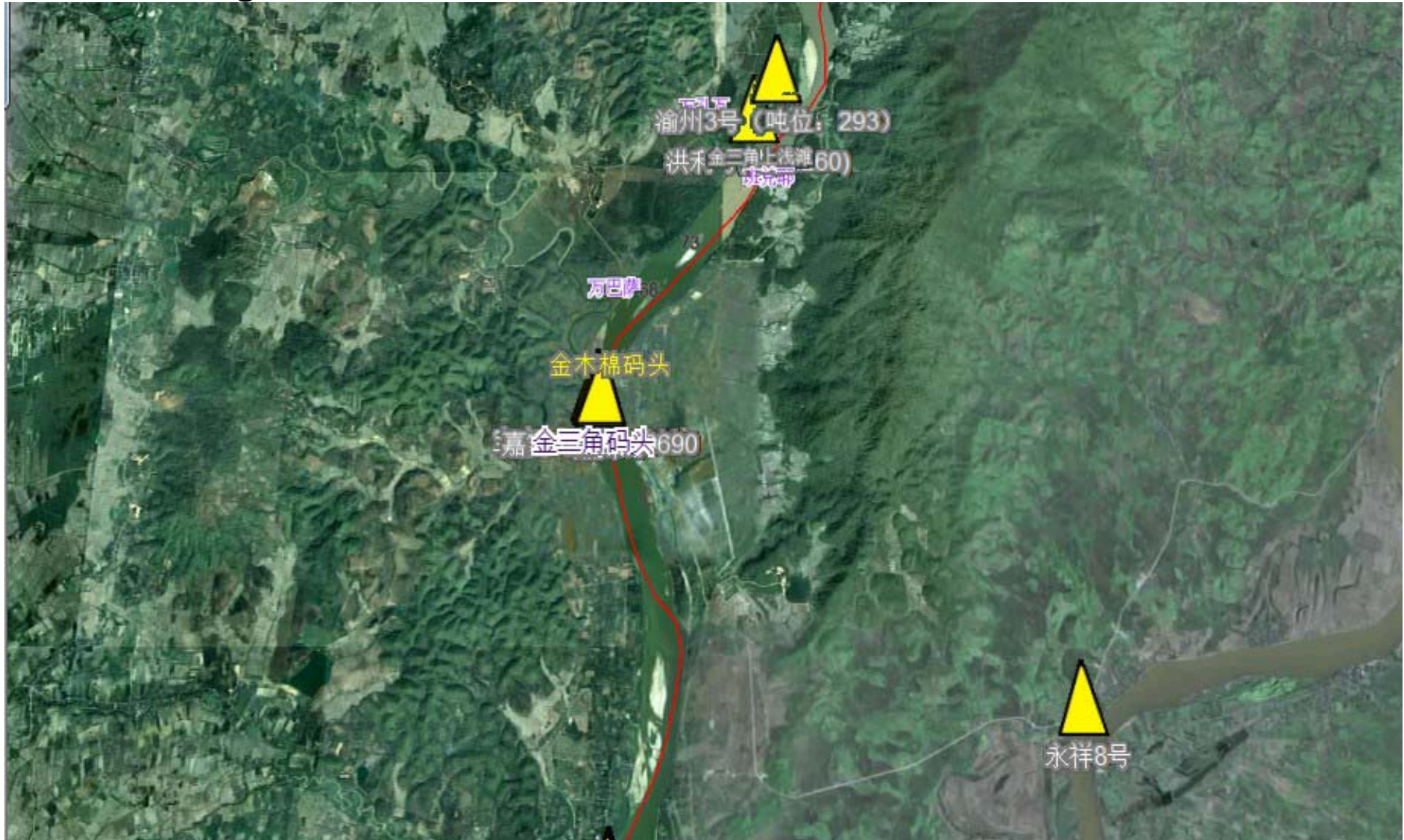


Services Provided by BeiDou VMS



Inland shipping (Lancang Jiang (Mekong River)):
RS + 3D Image + BeiDou

China's **BeiDou** World's **Compass**





Services Provided by BeiDou VMS



**Inland shipping (Lancang Jiang (Mekong River)):
RS + 3D Image + BeiDou**

China's BeiDou World's Compass

Project Effect

BeiDou Advantage: Positioning and Communication Integrated in the Remote Inland River Area

Integration Characteristics: BeiDou+RS+3D very suitable for the Environmental monitoring

Notable Benefits: BeiDou protects ship crew's life and property safety

International Corporation: BeiDou promotes the international Exchanges and Cooperation

Intelligent Ship Logistics :

China's **BeiDou** World's **Compass**

BeiDou Position Service + Short Messages + Sensors Integration

中国港口船舶动态监控与查询系统演示版[2.0] - Windows Internet Explorer

http://www.portlive.com/

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退出 | 在线船舶(船名、呼号或MMSI编号) 船舶资料 地点 经纬度

Portlive.com

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船舶资料

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- [HAI XUN 0846](#)
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地点

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- [LONDON\(Kiribati\)](#)

经纬度

- [122.37](#)
- [122.36](#)
- [122.35](#)
- [122.34](#)
- [122.33](#)

1550号 东海北部:-

YONG LONG GUI

船旗国:中国

类型:货轮

呼号:BJST 船首向:116.0度

航向/航速:117.0度/11.0节

航行状态:在航用机器推进

长/宽/吃水:200.0m×32.0m×7.3m

目的港:QINHUANGDAO

预计抵达时间:2009-3-12 13:0

MMSI/IMO:413599000/0

接收时间:2009-03-10 16:08:20

上传图片
发送该船动态
跟踪或取消跟踪
添加到我的船队

海图 C-Map 地图 通

海平面实况 24小时 48-

122米 (31°22.86'N, 121°35.12'E)

在线船舶总数1521艘

PortLive 2.0(兼容IE6.0、7.0), Copyright © 上海海事大学, 上海市浦东大道:

Intelligent Ship Logistics :

China's **BeiDou** World's **Compass**

BeiDou Position Service + Short Messages + Sensors Integration

Distinguish
-ing
Features

BeiDou achieves the dynamic management of cargo and makes the logistics system more efficient.

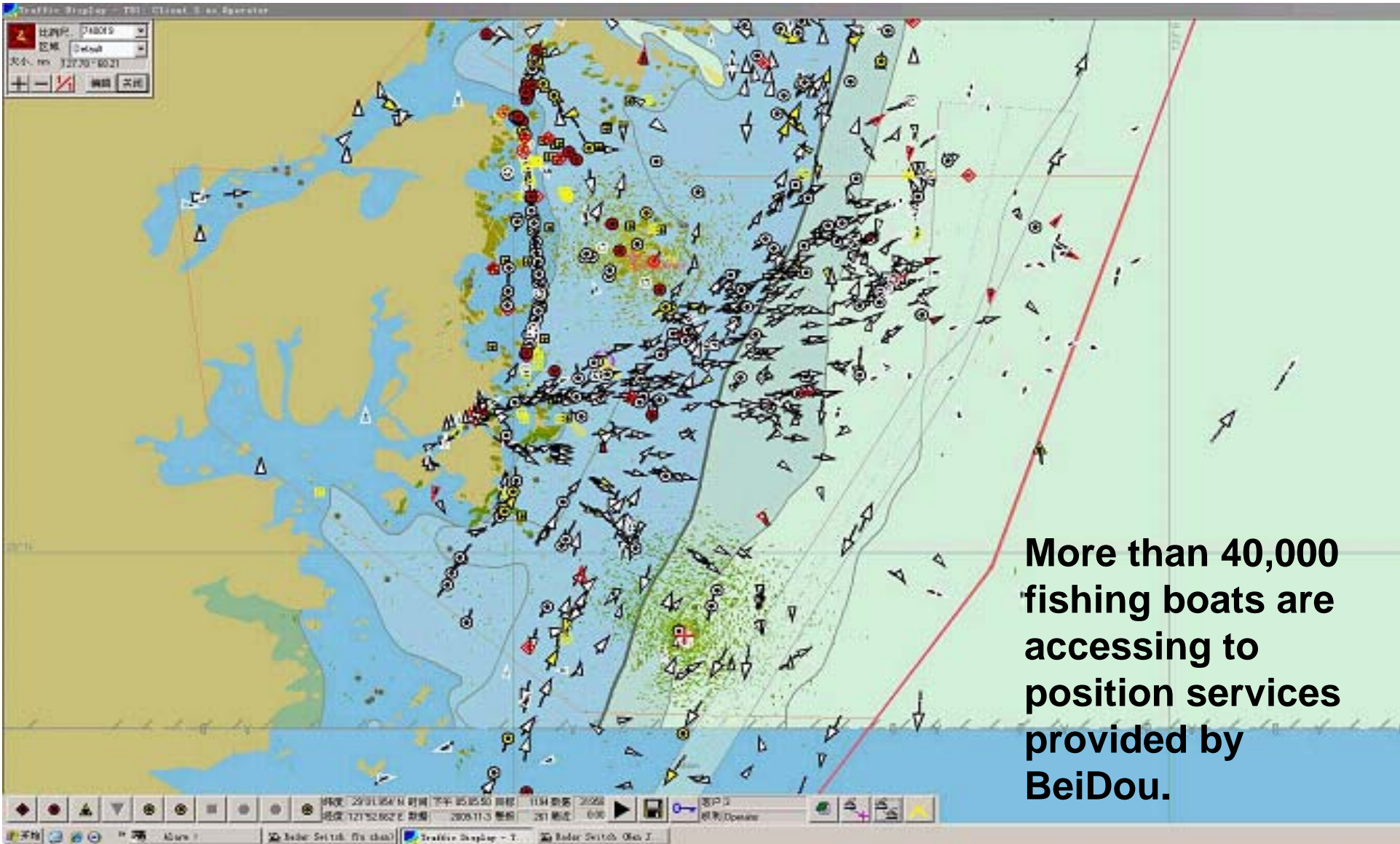
BeiDou Early Warning improves the safety of the ocean cargo transportation.

BeiDou LBS Service offers cargo real-time monitoring (temperature, humidity, etc.) for special logistics.

BeiDou Logistics can be integrated into Internet of Things.

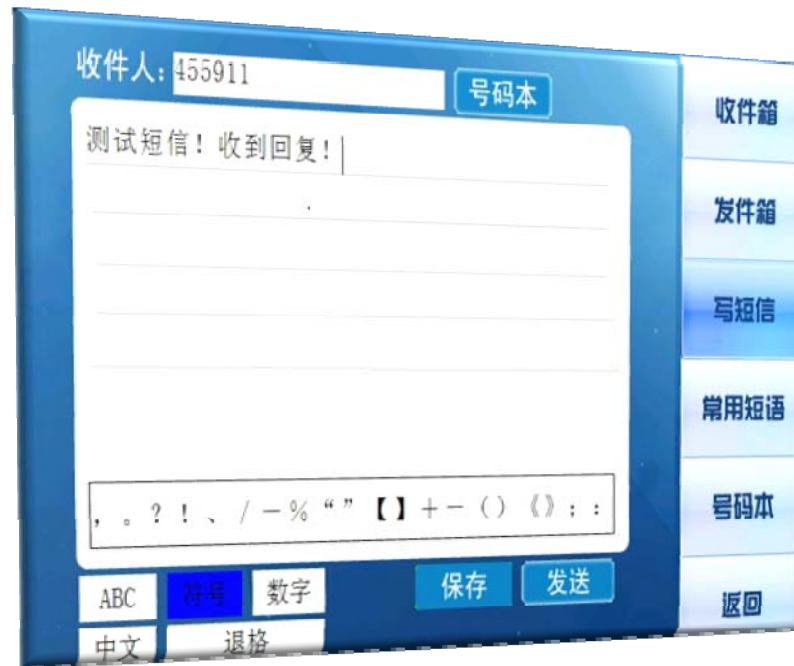
The Application of BeiDou in the Marine Fisheries ——Position Service

China's **BeiDou** World's **Compass**

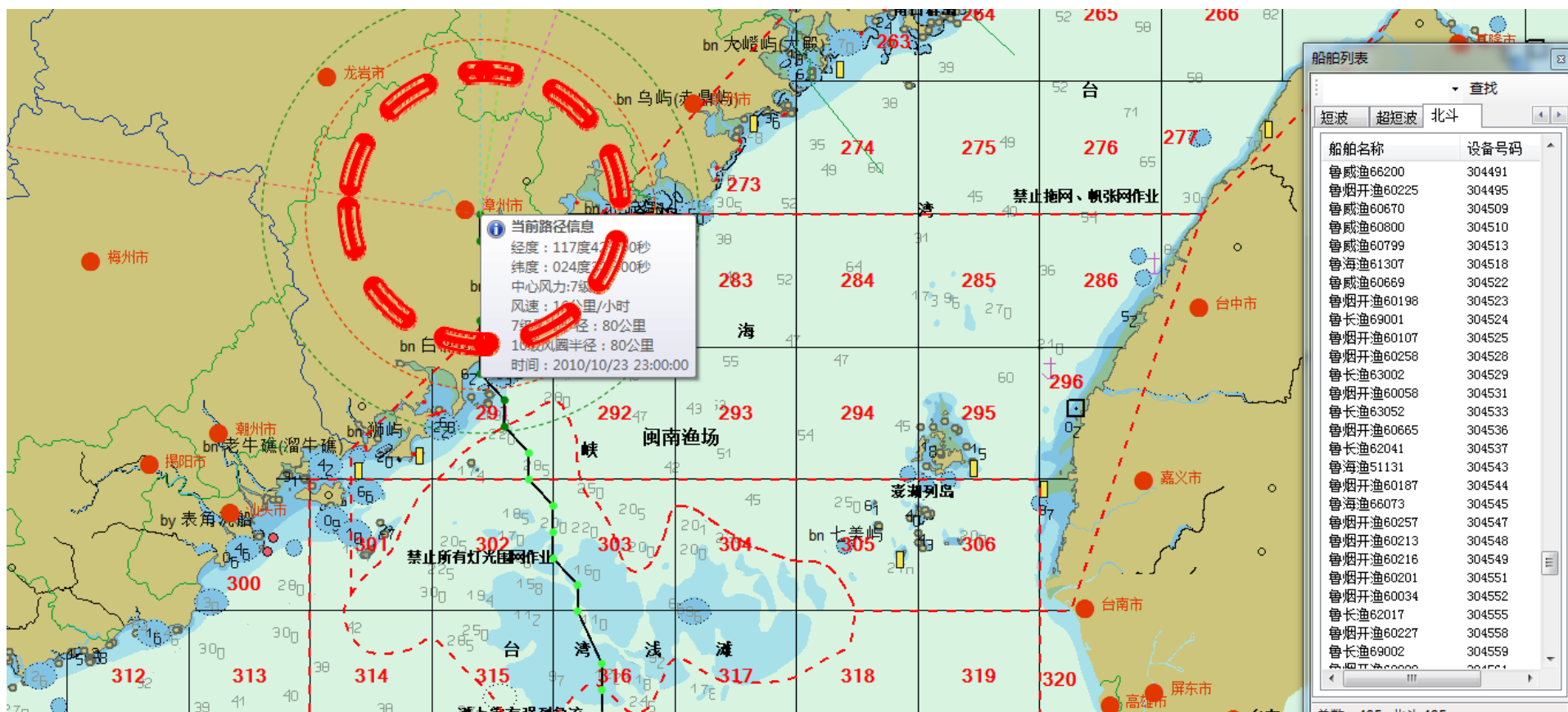


The Application of BeiDou in the Marine Fisheries ——Communicate Service

China's **BeiDou** World's **Compass**



The Application of BeiDou in the Marine Fisheries —Typhoon Warning Service



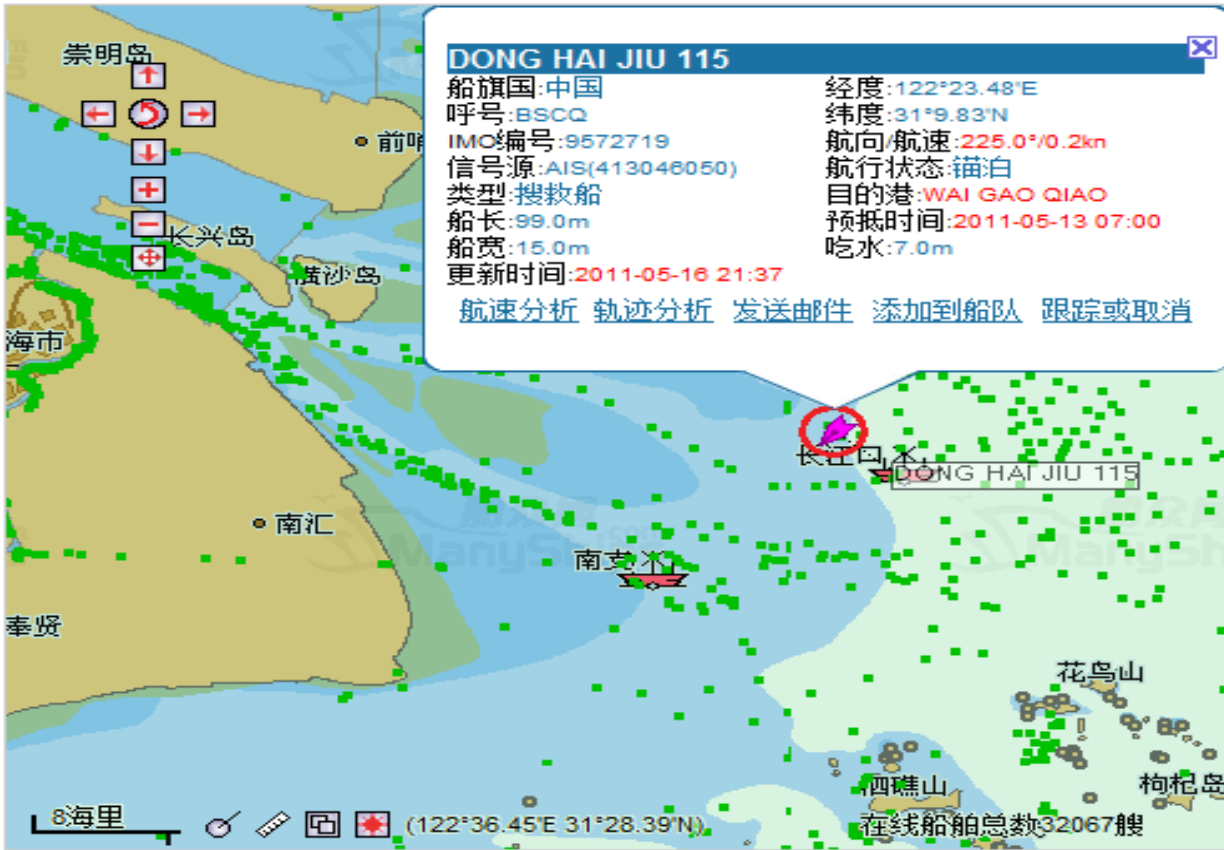
The Application of BeiDou in the Marine Fisheries —Search and Rescue Services

China's **BeiDou** World's **Compass**

船名(英文或拼音) 呼号 MMSI IMO sam@ubinavi.com.cn | 帮助 | 技术支持 | 退出

DONG HAI JIU 115

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DONG HAI JIU 115	<input type="button" value="海图"/>	<input type="button" value="遥感"/>	<input type="button" value="地图"/>	<input type="button" value="+遥感"/>
船旗国:中国 呼号:BSCQ IMO编号:9572719 信号源:AIS(413046050) 类型:搜救船 船长:99.0m 船宽:15.0m 更新时间:2011-05-16 21:37	经度:122°23.48'E 纬度:31°9.83'N 航向/航速:225.0°/0.2kn 航行状态:锚泊 目的港:WAI GAO QIAO 预计时间:2011-05-13 07:00 吃水:7.0m	<input type="button" value="12小时天气预报"/>	<input type="button" value="24小时天气预报"/>	

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8海里 (122°36.45'E 31°28.39'N) ©ManyShips [使用条款](#)

Applications on the other Vessels

China's BeiDou World's Compass



MV Xue Long

- Scientific Ship Monitoring
- Scientific Data Acquisition



Sailboat

- Competition Sailing Monitoring Service
- Personal Navigation Service



Yacht

- Vocation Navigation Service
- Emergency 911 Communication Service

BeiDou is Notably Applicable to Vessel Monitoring

- ◆ Positioning and
- ◆ Various Water
- ◆ Offshore, Ocean
- ◆ Various Boats

- ◆ Autonomous Navigation
- ◆ SMS Communication

- ◆ Monitoring Management
- ◆ Intelligent Logistics
- ◆ Emergency Rescue
- ◆ Scientific Investigation

System
Extensibility

BeiDou Vessel Monitoring

Application
Suitability

Services
Variability



UBIQUITOUS NAVIGATION
EVERYWHERE IN EVERY POSSIBLE WAY



Thank You!

谢谢



International Committee on
Global Navigation Satellite Systems