**Robust and versatile**
**– reliable performance**
**for harsh environments**

# MARINE ASSET TRACKER

Pole Star's Marine Asset Tracker (MAT) offers a choice of SkyWave satellite transceivers linked to a web-based service, providing a highly effective way of automatically tracking powered and unpowered assets.

With a choice of three dedicated hardware options linked to a stand-alone system, MAT provides a reliable, low-maintenance tracking solution for a range of marine assets, including tugs and barges, support vessels, oil and gas rigs.

Whether for a tug and barge requiring routine tracking, a support vessel entering a high risk area or a rig in transit or unpowered in extreme weather conditions, MAT enables the user to monitor the safe passage of each asset in their fleet on one screen.

Each hardware option has been developed to suit specific vessel and market sector requirements in terms of power supply, battery type/duration and position reporting frequency. All options share the benefits of Pole Star's web-based MAT service.

## Key Benefits

- View fleet on interactive C-Map™ charts
- Display Fleet List for latest data on entire fleet
- Receive position reports by email and SMS
- Poll a vessel to receive an immediate position report (specified hardware options)
- Create geo-zones and receive notifications as assets enter or leave
- Track history for voyage analysis
- Global weather forecasting and meteorological information
- Credit-based payment system enables full user control
- Online usage report gives up-to-date account status
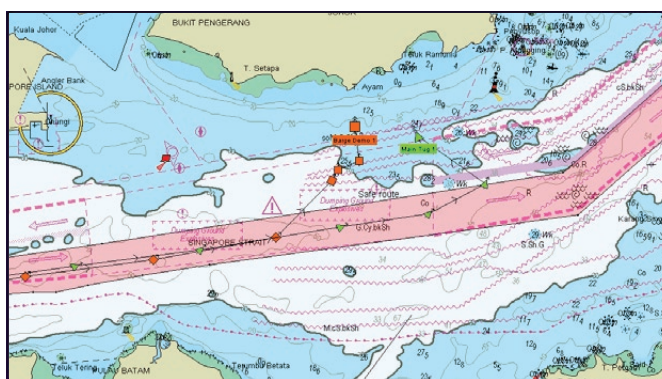
# Using Marine Asset Tracker

## Track history

MAT provides an essential tool for analyzing actual progress of a vessel against its planned schedule (shown below). You can display the voyage history for a selected vessel and click on an individual icon along the trail to display the associated position report.

## Geo-zones

MAT allows you to create a geo-zone to define and display a specific area. You can then program the MAT system to alert you by email/SMS, should a position report be transmitted when the vessel enters or leaves the defined area.
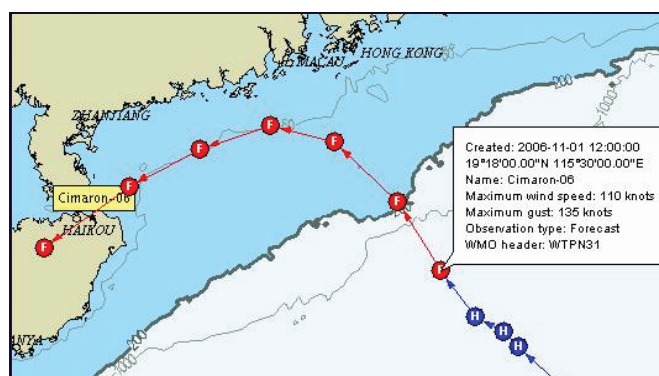


## Variable position reporting

With MAT1 and MAT5, you can change the reporting interval and poll a vessel to request an immediate position report. These features enable you to have accurate and updated information on a vessel, for example in the event of bad weather being forecast or a geo-zone notification received.

## Monitoring weather and sea conditions

MAT provides a 10 day weather forecast with a choice of meteorological parameters that can be overlaid as graphics on the C-Map charts.



A further option is the provision of cyclone information giving both forecast and historical data.

## Budget Management

Pole Star's credit based payment system is the key to ensuring you remain in full control of your Marine Asset Tracker account.

Online reports track costs and give current account status for fleet and for individual vessels, so that analysis of per vessel cost/usage and rebilling, where appropriate, is straightforward.

# Hardware options

The MAT range of hardware enables the user to select the transceiver unit that meets their specific operational requirements.
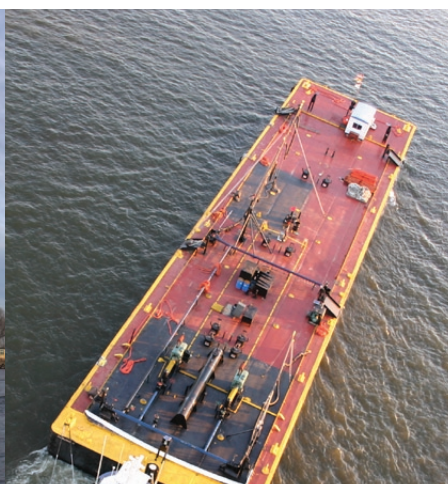
* In event of a power failure

| HARDWARE | VESSEL TYPE | BATTERY TYPE | BATTERY DURATION | VARIABLE POSITION REPORTS | POLL FOR POSITION |
|---|---|---|---|---|---|
| MAT1 | Powered | n/a | n/a | Yes | Yes |
| MAT3 | Unpowered | Integral | 12 months | No: Fixed – every 6 hours | No |
| MAT5 | Powered | * Plus integral & external back up + charger | * 14 days | Yes | Yes |

## MAT1

For powered vessels with stable power supply eg tugs and support vessels, MAT1 is the recommended option. Ideal for both routine tracking and, with its variable reporting capability, monitoring vessels transiting high risk areas.

## MAT3

For unpowered vessels eg barges, "dead" tows, unattended installations, MAT3 provides a low-cost, low-maintenance option with position reporting fixed at four times per day. The unit's non-rechargeable battery guarantees 12 months uninterrupted reporting.

## MAT5

Designed specifically for Rig/Platform Monitoring Management, MAT5 uses the onboard power supply to charge the internal battery and power the unit in normal operating conditions. Should the rig experience extreme weather conditions or be transported to a different location, causing the existing onboard power supply to be disrupted, the internal and external batteries will continue to power the unit for a further 14 days.

| FEATURE | DESCRIPTION | MAT TYPE | | |
|---|---|---|---|---|

| **PRICING** | | 1 | 3 | 5 |
|---|---|---|---|---|
| **Registration** | One-off fee for registering a transceiver on the MAT system billed in credits | ✓ | ✓ | ✓ |
| **Pay as you go** | Credits system allows for flexible usage | ✓ | ✓ | ✓ |

| **HARDWARE OPTIONS** | | | | |
|---|---|---|---|---|
| **External power pack** | Battery pack to extend time between recharges by 7 days | | | ✓ |
| **Battery charger** | Battery charger for charging unit | | | |
| **Integral power pack** | Replaceable internal power pack | | ✓ | |

| **CHARTS** | | | | |
|---|---|---|---|---|
| **Fleet List** | Latest position report data and map for each vessel | ✓ | ✓ | ✓ |
| **Interactive Fleet Map** | Shows the position of fleet on C-Map™ charts with zoom and pan | ✓ | ✓ | ✓ |
| **Weather information** | 10 day meteorological forecast and cyclone information | ✓ | ✓ | ✓ |
| **Geo-zones** | Set and display your own zones | ✓ | ✓ | ✓ |

| **POSITION REPORTING\*** | | | | |
|---|---|---|---|---|
| **Automatic Position Report (APR)** | A position report sent automatically at a fixed interval | ✓ | ✓ | ✓ |
| **Change reporting interval** | Send a command to change the interval between automatic position reports | ✓ | | ✓ |
| **Request a position report (poll)** | Send a command to request an immediate position report | ✓ | | ✓ |
| **Overdue position reports** | Receive a warning if a vessel has not reported | ✓ | ✓ | ✓ |
| **Monthly battery report** | Full diagnostic check of battery condition | | | ✓ |
| **Position report history** | View and download a log of all position reports | ✓ | ✓ | ✓ |
| **Enter position** | Manually enter position reports | ✓ | ✓ | ✓ |

| **TOOLS** | | | | |
|---|---|---|---|---|
| **Postings** | Manually enter extra information to be displayed in a position report | ✓ | ✓ | ✓ |
| **Email notifications** | Send position reports to an unlimited number of email addresses | ✓ | ✓ | ✓ |
| **SMS notifications** | Send position reports to up to 3 phone numbers by SMS | ✓ | ✓ | ✓ |
| **Geo-zone notifications** | Alert when vessel reports a position in or out of a user defined zone | ✓ | ✓ | ✓ |

| **USERS** | | | | |
|---|---|---|---|---|
| **Master user** | A username and password with full control of the service | ✓ | ✓ | ✓ |
| **Standard users** | Ability to create up to 10 Standard logins to access specific parts of the fleet eg by superintendent or type of vessel | ✓ | ✓ | ✓ |

\*Pole Star will use reasonable endeavours to track your transceiver and deliver your position reports. However, sometimes this is not possible due to factors beyond our control, such as satellite communications failure.

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