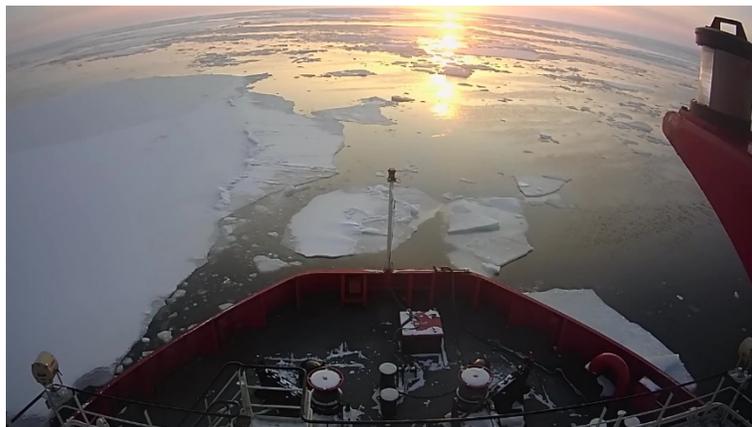


## NEW & UPCOMING FUELNET FEATURES

FUELNET has released numerous new features to give users even more insight into monitoring vessel activities. Below are the new features that FUELTRAX has to offer and how they can benefit your fleet.

### NEW RELEASE SUMMER 2018

**FUELTRAX INTEGRATED VIDEO SURVEILLANCE** delivers a complete picture of vessel operations and activities, updated to FUELNET, and tied directly to vessel fuel activity and location data.



*Figure 1*

Designed for rugged marine environment, FUELTRAX Video Surveillance system delivers:

- Full 360° coverage of vessel perimeter from six or more exterior IP cameras
- Up to 10 weeks of high-quality date/timestamped video footage available for controlled export on board
- Daily updates to FUELNET with minute-by-minute snapshots from all cameras
- Complete imagery databank matched directly to specific vessel location data and fuel activity data
- Cameras can also be added to monitor select interior vessel areas remotely

## NEW RELEASE FALL 2018

**WEATHER TRACKING** allows you to link weather effects directly to vessel fuel efficiency.



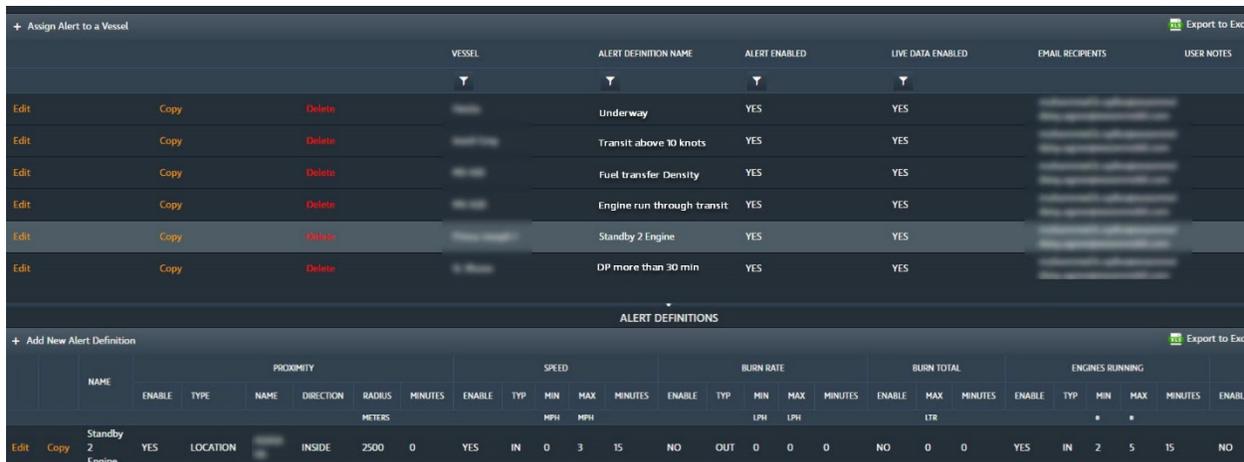
Figure 2

**Weather overlays:** By activating weather radar overlays, you can monitor your vessels' location, speed, and consumption alongside live weather readings covering everything from wind and temperatures to waves, currents, swells, and more. A full list of weather overlays is shown on the right side of the image above (*Figure 2*). Weather data is GPS timestamped and tied to your exact consumption profile for a quick and simple review.

**Forecast weather:** In addition to logging weather data in real-time, FUELNET will also give you access to weather forecasting data for the next 72 hours – empowering you and your crew to plan ahead. In *Figure 2*, the orange bar at the bottom shows this forecasting in action.

**Visual weather verification when combined with video surveillance:** The FUELTRAX real-time weather overlays along with all historical weather data are stored and matched with precise vessel route, and all FUELTRAX camera feeds.

The **ALERTS** feature allows you to receive customized notices based on live vessel activity in FUELNET and are tailored to your specific fleet needs.



The screenshot shows two sections: 'Assign Alert to a Vessel' and 'ALERT DEFINITIONS'.

**Assign Alert to a Vessel Table:**

			VESSEL	ALERT DEFINITION NAME	ALERT ENABLED	LIVE DATA ENABLED	EMAIL RECIPIENTS	USER NOTES
Edit	Copy	Delete	[Vessel]	Underway	YES	YES	[Emails]	[Notes]
Edit	Copy	Delete	[Vessel]	Transit above 10 knots	YES	YES	[Emails]	[Notes]
Edit	Copy	Delete	[Vessel]	Fuel transfer Density	YES	YES	[Emails]	[Notes]
Edit	Copy	Delete	[Vessel]	Engine run through transit	YES	YES	[Emails]	[Notes]
Edit	Copy	Delete	[Vessel]	Standby 2 Engine	YES	YES	[Emails]	[Notes]
Edit	Copy	Delete	[Vessel]	DP more than 30 min	YES	YES	[Emails]	[Notes]

**ALERT DEFINITIONS Table:**

		PROXIMITY				SPEED				BURN RATE				BURN TOTAL				ENGINES RUNNING								
NAME	ENABLE	TYPE	NAME	DIRECTION	RADIUS METERS	MINUTES	ENABLE	TYP	MIN MPH	MAX MPH	MINUTES	ENABLE	TYP	MIN LPH	MAX LPH	MINUTES	ENABLE	MAX LTR	MINUTES	ENABLE	TYP	MIN	MAX	MINUTES	ENABLE	
Standby 2 Engine	YES	LOCATION	INSIDE		2500	0	YES	IN	0	3	15	NO	OUT	0	0	0	NO	0	0	0	YES	IN	2	5	15	NO

Figure 3

You can customize everything from time, speed, location, proximity, burn rate and total, number of engines running, transfer volume, transfer fuel, and remaining on board (ROB). You can assign alerts to any vessel and have these alerts sent to any specified email recipients desired. Alert history, as well as the associated vessel name, is stored in the history section for easy review. *Figures 4 and 5* below show an example of how this appears in the web portal.

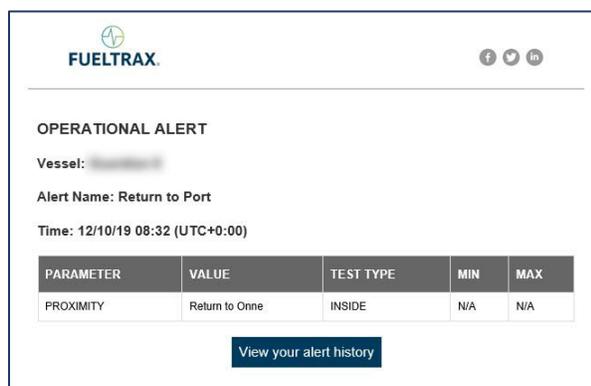


Figure 4

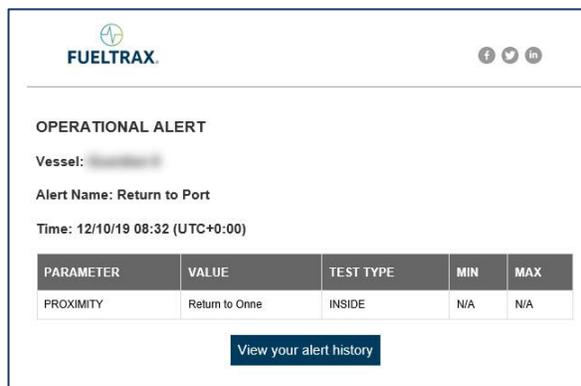


Figure 5

**SPEED VS CONSUMPTION CURVE** shows a historical performance profile for your vessel.

The plot graph shows all data points from our 1-minute data available and draws a 'best fit' line. This curve is drawn using directly measured fuel data from FUELTRAX and can be compared to a theoretical curve inside of FUELNET based on your sea trials data performance. You can also compare multiple vessels' data against each other, as is shown in *Figure 6*. Studying this curve and data can unlock new understanding of your vessels' performance.

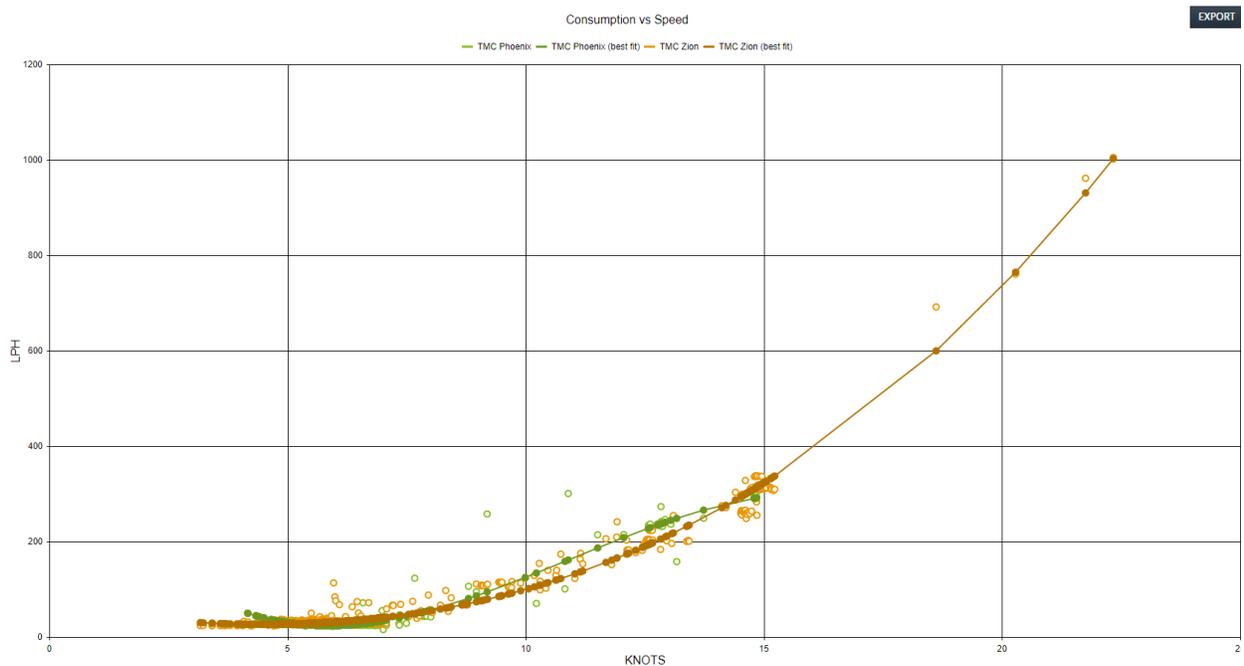


Figure 3

## NEW RELEASE FALL 2019

**ETA TRIP CALCULATOR** lets you plan multi-stop trips and accurately estimate the time of arrival by monitoring real-time speed changes. Features Include:

- **Accurate ETA monitoring:** Track each vessel's ETA to any location in real-time via the FUELNET map view to make fully informed deployment plans.
- **Model custom ETAs:** Compare current and custom vessel speeds side-by-side to see the impact on your ETA.
- **Store your favorite locations:** Quickly and easily draw ETA lines by clicking on the map or selecting one of your saved locations.
- **Plan multi-stop journeys:** Get a clear view of the arrival time at every stop along your vessel's route.
- **Independent tracking:** Follow reliable real-time location updates from the independent FUELTRAX GPS tracking signal without relying on AIS or other tracking systems.
- **Industry-leading 99% uptime:** Enjoy pole-to-pole coverage and an uninterrupted Iridium® satellite connection with industry-leading system uptime.

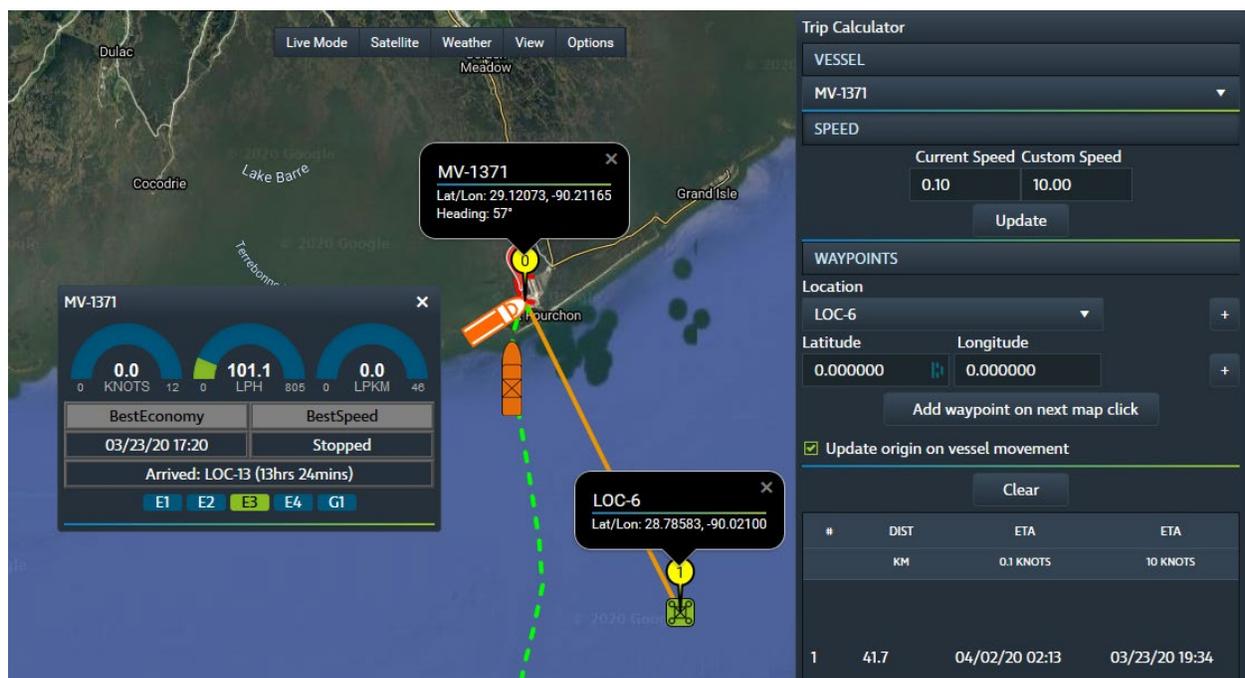


Figure 4



## ABOUT FUELTRAX

From its inception in 2006, FUELTRAX has grown to be the leading universal fuel management solution, compatible with any vessel, engine, or fuel, in any location in the world. Together with its cloud-based data and analytics service, FUELNET, it provides fully self-contained, smart monitoring and measurement, reducing costs and setting the standard for secure, compliant, optimized vessel performance.

FUELTRAX is a product of Nautical Control Solutions, LP.

For further information, please contact: [support@fueltrax.com](mailto:support@fueltrax.com)

