



FUGRO OPERATIONAL SAFETY FORECAST (OSF)

This unique service is ideal to assist offshore operators in planning work schedules based on your operational weather criteria and the forecast weather conditions.

The OSF is an additional service to the weather forecast already provided by Fugro. It is displayed as a colour coded reference chart and designed to be easily incorporated into a company's "Emergency Response Plan" (ERP) and their "Health, Safety and Environment" (HSE) procedures.

EMERGENCY RESPONSE PLAN (ERP)

ERP's often only describe action plans based on a limited number of pre-designated events. They can often assume that operations needed to be performed in the event of an emergency

can proceed without disruption. Consulting the OSF within the ERP process can highlight any operations that may already be in a non-operational state due to the nature of the emergency.

For example if the weather conditions exceed the safe limits for a semi-sub, an evacuation may be necessary. Using the OSF as part of any ERP will ensure evacuation occurs whilst the helicopters and supply vessels are still within the safe operational limits.



OSF can reduce operation downtime related to weather.



General operating criteria can be quickly assessed with OSF.



HEALTH, SAFETY AND ENVIRONMENT

Safety is of vital importance in any offshore operation. The OSF can be easily adapted to suit the clients HSE policy by setting limits in accordance to their policy.

THE OSF CHART

The OSF colour coded reference chart has been developed to indicate, at a glance, when the weather conditions become marginal or critical. Fugro's easy-to-use chart takes into consideration the weather criteria for more than one parameter, and therefore is applicable to all offshore operations. These include operations involving helicopters, diving, lifting, ship-to-ship transfer, work-boats, evacuation, tows etc. The criteria and marginal limits are based on information provided by the client.



OSF can help pre-plan for possible delays.

EXAMPLE OF HEAVY LIFT OPERATION

Consider a heavy lift operation requiring winds less than 30 knots, a sea state below 2.5 metres and the wave period shorter than 8 seconds or a sea state below 2.0 metres if the wave period is greater than 8 seconds. Looking through the forecast to find out when the lifts can go ahead or will be affected by the weather can be both time consuming and prone to errors.

The OSF will extract the information from the forecast and present the risk in a simple colour coded chart display for as many operations as you wish to include. Any operation that has criteria defined in terms of the weather conditions can be included. General weather parameters can also be defined, for instance, the preview can be set to show simply when winds are forecast to be greater than 20 knots or the combined significant wave height is greater

than 1.5 metres. This provides a quick and easy way to determine if "general" operating criteria are forecast to be approached or exceeded.

The OSF shows how various operations may interact. If one operation depends on another it may be unnecessarily held up if the weather interferes. With some careful pre-planning the delays or waiting-on-weather "WOW" can be kept to a minimum.

Operational Safety Forecast

	Fri 25 Apr				Sat 26 Apr				Sun 27 Apr				Mon 28 Apr				Tue 29 Apr						
	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00		
Helicopter Ops	S	S	S	S	S	M	C	C	C	C	C	C	C	C	C	C	C	M	M	S	S	S	S
Supply Vessels	S	S	S	M	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	S	S	S
Anchor Handling	S	S	M	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	S	S
Heavy Lifts	M	M	M	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Diving Operations	S	S	S	S	M	C	C	C	C	C	C	C	C	C	C	C	C	C	M	S	S	S	S
Crane Operations	S	S	S	S	S	M	M	M	M	C	C	M	M	M	S	S	S	S	S	S	S	S	S
Disconnect	S	S	S	S	S	S	S	S	S	M	M	M	M	S	S	S	S	S	S	S	S	S	S
Evacuation	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

Legend:

S = Safe **M** = Marginal **C** = Critical