

Unmanned Aerial Vehicle (UAV) Service



OSRL offers a **Unmanned Aerial Vehicle (UAV)** service that provides enhanced surveillance and data collection capabilities during oil spill response operations. Equipped with advanced sensors, UAVs can safely monitor and assess spill conditions from the air, minimising personnel exposure and improving response efficiency.

Key Facts

- UAV options include rotary and fixed-wing models for short- and long-range missions
- Equipped with sensors: HD visual, infrared, ultraviolet, and gas monitoring capabilities
- Fully integrated into OSRL's response workflows, ensuring seamless deployment
- Applications include shoreline assessment, wildlife monitoring, site security, and more

Outputs and Deliverables

- Geo-referenced imagery and video, transmitted in real-time to field responders
- Track logs documenting the UAV's flight path
- Overflight reports, GIS-compatible products, and live streaming to command centres (upon request and availability)
- Additional deliverables may include habitat mapping and post-treatment inspection documentation



Specifications

Types of UAVs	Rotary and fixed-wing, suited for various operational needs
Sensor capabilities	Visual (HD), infrared, ultraviolet, and gas monitoring
Operational range	Short-range to long-range missions, adaptable for inland and offshore use
Personnel	Each team includes a UAV pilot, sensor operator, and OSRL response specialist

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Unmanned Aerial Vehicle (UAV) Service

The Unmanned Aerial Vehicle (UAV) service is available globally to OSRL members.



Mobilisation

- Contact the OSRL Duty Manager for best-effort response. Mobilisation depends on flight permission and UAV provider availability.

Applications

- UAVs support SCAT teams, habitat mapping, booming plans, site security, wildlife hazing, gas monitoring, equipment tracking, and long-term monitoring. Regular training ensures consistent, high-quality deployment.

Benefits

- Provides aerial access to hard-to-reach areas and offers unique perspectives for comprehensive assessment
- Cost-effective compared to manned aircraft, with minimal space needed for launch and recovery
- Flexible operational capabilities in various environments, enhancing overall response effectiveness



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