

Standing conditions for drone operations on South Georgia & the South Sandwich Islands

All drone operators in SGSSI must agree to adhere to the following conditions. If you are unable to meet any of these conditions this must be clearly identified in your RAP application with a clear justification and suggested alternate mitigation.

Suitable aircraft

All drones must:

- Be powered by electric motors only.
- Have GPS and be capable of autonomous return to the launch point if contact is lost.
- Have a telemetry system capable of sending real time data to the pilot, including current altitude, speed, orientation and distance from the launch point.
- Have an alarm which is audible to the pilot when the battery is below 30% charge.
- Have an auto-land/return to home feature that triggers before the battery voltage falls below the voltage needed to sustain flight.

Planning and training

- You must have a permission under the Air Navigation (Overseas Territories) Order to operate a drone within 12nm SGSSI. This will specify dates of operation and named pilots.
- Pilots should be suitably experienced and have undertaken test flights in an environment which is comparable to the proposed flight locations on South Georgia. A CV and flight log may be requested as evidence of this.
- If a pilot has insufficient experience in flights in comparable conditions, a plan of how this experience will be developed through test flights in wildlife free areas must be submitted to and approved by GSGSSI

Flight Operations – all flights

- All drone operations must consist of a pilot and observer.
- Safety systems of the aircraft must be tested prior to every flight.
- Flights must not be started in winds exceeding the aircraft manufacturers guidelines and must be aborted if winds exceed 25 knots or if visibility that is not consistent with Visual Line Of Sight (VLOS) operations unless BVLOS has been authorised under AN(OT)O.
- There must be a designated take-off and landing site which is at least 50m away from people who are not directly under control of the pilot/observer.
- Take-off and landing areas must be free from seabirds and seals.
- Drones must not be flown within 50m of any vessel, vehicle or structure which is not under the control of the person in charge of the aircraft, or for which they have explicit permission for from the Master of that vessel.
- Flights must be within VLOS at all times, unless specifically authorised under AN(OT)O.
- Flights must be completed with more than 30% battery remaining. Flights should be precautionary and land with reserve, especially if needing to return to a vessel.
- No flights are permitted near buildings at King Edward Point or Grytviken without the permission of the Government Officer.

- No flights are allowed over Prohibited Areas surrounding the whaling stations at Stromness, Leith, Husvik or Prince Olav Harbour unless specifically agreed with GSGSSI.
- In the event of a crash or unscheduled landing, every effort must be made to recover the drone unless in doing so would cause disturbance to wildlife or involve entry into a Prohibited Area or otherwise unsafe environment.
- Observers must be vigilant for disturbance to wildlife. Disturbance means a change in behaviour, such as groups of birds taking off, skuas paying attention to drone in flight, seals raising their heads or moving to the sea, penguins moving as a group.
- Other drone operators may be present at sites. In the event other parties are present, you must liaise to determine the scope of their permitted activities and if UAV flights are planned should liaise with each other prior to commencing operations to ensure that adequate systems are in place to monitor UAV path in relation to other aircraft, persons, vessels and structures for the purpose of avoiding collisions.

Landscape only flights

- Flights must be 200m (horizontal) from known colonies or observed aggregations of wildlife for take-off and the duration of flight.
- Flights must maintain horizontal distance of 200m from cliff edges where seabirds may nest.
- Minimum flight height of 80m Above Ground Level (AGL) to avoid disturbance of unseen wildlife.
- If disturbance to wildlife is noted by observers, the drone must be moved at least 200m away from this spot or the flight ceased.

Flights over wildlife

If you have need to fly directly over wildlife you must justify this in your RAP application form and meet the following conditions:

- For flights over penguins and seals minimum height of 50m AGL
- For flights over flighted birds including albatross, shags, terns etc, initial flight height should be 100m AGL. If no disturbance is observed after a test flight, flight height can be incrementally reduced to a minimum of 50m AGL.
- Flight operations must be planned to minimise noise and changes of direction and speed over wildlife aggregation. Changes of direction or speed must be at least 50m outside the colony boundary.
- If disturbance to wildlife is noted by observers, the flight must be increased to 100m AGL or ceased.

NOTE: permission for flights over wildlife is usually only given if required for research/monitoring or for media projects that have significant global reach

Flights on the South Sandwich Islands

NOTE: for flights on the South Sandwich Islands the above conditions apply but additional mitigation measures may be needed depending on the nature and extent of planned activities. These should be detailed in your RAP application and appropriate additional mitigation measures identified and agreed with GSGSSI

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