

EXERCISE STRIKE WARRIOR 26-2**ENVIRONMENTAL AND SUSTAINABILITY IMPACT ASSESSMENT STATEMENT,
EXERCISE STRIKE WARRIOR 26-2 (21 Sep - 9 Oct 2026)**

1. **Introduction.** Exercise Strike Warrior 26-2 (SW26-2) will take place in waters to the north and east of the UK during the period 21 Sep - 9 Oct 2026 and will include in excess of thirty ships and aircraft. This Environmental and Sustainability Impact Assessment Statements a live document and is designed to cover directed maritime activity for the duration of SW26-2 programmed serials and events. It is updated when required following a change in the programme. All participating units, including foreign units, shall comply with the mitigation measures contained in this assessment.

2. The Impact Statement is written in compliance with the:

Wildlife and Countryside Act 1981 (as amended)
 The Conservation (Natural Habitats, &c.) Regulations 1994 (as amended)
 Nature Conservation (Scotland) Act 2004
 Marine and Coastal Access Act 2009 (as amended)
 The Marine (Scotland) Act 2010
 Marine Act (Northern Ireland) 2013
 The Conservation of Habitats and Species Regulations 2017(as amended)
 The Conservation of Offshore Marine Habitats and Species Regulations 2017
 The Protection of Seals (Designation of Haul-Out Sites) (Scotland) Order 2014

3. **Activity.** This major multi-ship exercise involves forces from a number of invited nations and covers all forms of the following:

- Air defence
- Gunnery (including shore bombardment)
- Anti-submarine warfare
- Surface warfare
- Fixed and rotary wing flying operations
- Replenishment at sea
- Strike warfare
- Uncrewed surface systems

Impact Assessment

4. Having reviewed all planned activity against the Environmental Protection Guidelines (Maritime) (EPG(M)) for the military activity, it has been assessed that following standard operational mitigation and the mitigation stated below there is no environmental impact greater than '**MINOR**' throughout SW26-2.

Strike Warrior 26 – Environmental Risk

5. The Exercise Plan Instructions Environmental Risk section and the Exercise Director's Environmental Command Guidance sets out individual and collective environmental responsibilities which will be adhered to throughout the exercise. Its content reflects and supports the environmental SOPs in Royal Navy reference documents BRd

10, BRd 167, BRd 5063 and BRd 4985. The general principle being that, for the duration of this exercise, **environmental safety is to take priority over the completion of directed training activities**. The specific intent is that all activities shall be governed by the need to adequately protect the environment in the non-designated waters and within designated Marine Protected Areas (MPA).

6. Cape Wrath Range will be the only area in which shore bombardment will be exercised during SW26-2 and environmental mitigation measures are contained in the Defence Infrastructure Organisation (DIO) Range Standing Orders for Cape Wrath.

Mitigation

7. Where required, the mitigation to be imposed on SW26-2 activities is set out in detail in Tables 1 and 2 below. The main rules for each environmental theme are:

- a. **Air Operations.** Throughout the exercise Fixed Wing and Helicopter low flying will be in accordance with the MOD Low Flying Handbook. In addition, SW26-2 rotary wing activity will follow the mitigation set out in Table 1 below.
- b. **Inshore Operations**
 - i) Any high-speed manoeuvres by ships or small craft which take place in or within 0.5 miles of sea-bed marine protected area will do so in waters deep enough to avoid disturbance of EPG(M) Groups 3 and 5.
 - ii) Participants operating close inshore will avoid activity which disturbs seals that are hauled out of the water.
 - iii) When operating where basking sharks have been sighted, operators should moderate speed and proceed in such a manner as to eliminate risk of collision and disturbance.
- c. **Gunnery**
 - i) Medium calibre gunnery will take place at Cape Wrath Range. All firings will be iaw DIO Range Standing Orders which include environmental mitigation measures.
 - ii) All other gunnery will take place outside of maritime protected areas except for those areas designated for the protection of benthic seabed features entirely at depths greater than 20m.
 - iii) All targets will be either destroyed or recovered if still floating.
- d. **Sonar**

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i) All sonar operations within all exercise areas for SW26-2 will comply with the Royal Navy command guidance in BRd 4985 Vol 5¹ and NATO guidance MC0547².

ii) To keep the risk to marine mammals as “low³” unit transmission are not to exceed the lowest of the following 3 limitations.

(1) 214dB 1μ Pa @ 1m for 1 second pulse length, maximum of 6 pulses per minute, transmissions of up to 8 hours in any 24-hour period.

OR

(2) A source level where PTS and TTS are within the Mitigation Action Zone which is within 2000yards of the source unit⁴. Transmissions are limited to a maximum of 6 pulses per minute and up to 8 hours in any 24-hour period.

OR

(3) In accordance with national guidelines

iii) UK units may alter sonar parameters provided a S2117 assessment has been undertaken. In all cases the risk level is to remain low.

iv) Outside maritime protected areas for marine mammals UK units may increase their sources level to “medium” with additional mitigation which the Exercise Director must approve prior to any increase⁵.

v) Marine Mammal Observers (MMO) will be employed on deck a minimum of 60 minutes prior to, during and 60 minutes after any transmission on active sonar (Reduced to 30 minutes if depth of water is less than 200m). MMOs are to visually search for marine mammals. As well as the visual monitoring all units are to use passive acoustic means by their sonar outfit to detect marine mammals.

vi) For maritime patrol aircraft - if the area is passively acoustically monitored by a field of sonar buoys which is large enough such that all sonar

¹ UK units will conduct at S2117 Sonar Risk Assessment, foreign units will use their own national procedure to conduct a sonar risk assessment as they do not have access to S2117.

² MC0547 states that only the lowest power levels should be used to achieve the training aim.

³ Permanent Threshold Shift (PTS) is irreversible physiological damage caused by rupture of the hair cells of the inner ear, resulting in a permanent loss of hearing sensitivity. The consequence of this is a permanent shift in the threshold of hearing of the receptor. TTS is a temporary loss in the efficiency of the mechanical-chemical electrical transfer function in the inner ear, resulting in a temporary loss of hearing sensitivity. The consequence of this is a temporary shift in the threshold of hearing of the receptor. Low risk level is when PTS and TTS are within 2000 yards.

⁴ A MAZ is a fixed monitoring range of 2000 yards around the sound source unit which the surveillance effort can, under normal conditions, be reasonably expected to detect the presence of marine mammal activity and therefore initiate appropriate mitigation action.

⁵ Guidance in BRd4985 Vol 5 will be followed. Additional mitigation will take account of visibility, daylight and number of aircraft airborne.

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transmissions can be monitored within the field, then the area need only be monitored for 30 minutes.

vii) Ramp up procedures will be used at the start of any transmission by all sonar devices capable of doing so.

viii) If marine mammals are observed within the mitigation action zone (MAZ) for a sonar prior to transmission, a delay of 60 minutes, from last sighting, will be implemented before transmissions are allowed. Similarly, if sonar is shut down as a result of detecting a marine mammal during transmissions a period of 60 minutes will be allowed from last sighting before retransmitting. This is reduced to 30 minutes in waters of less than 200m.

ix) Sonar transmissions East of the Pentland Firth and south of 59 00N are only authorised for Maritime Patrol Helicopters, prior to any sonar transmissions their own S2117 Sonar Risk Assessment is to be completed.

x) The MoD considers waters from the coast to the 50M contour to be a Human Dive Zone (HDZ) in view of the increased likelihood of human diving activity. No anti-submarine warfare sonar activity is permitted within a HDZ. Furthermore, if operating outside a designated HDZ adjacent to the 50M contour, a buffer zone equal to the maximum stand-off range of the sonar in use is applied.

xi) Sonar activity near the Stanton Banks (within the 100m contour) will not take place.

Seabed and Sediments

8. Throughout the exercise all units will comply with the rules set out in the attached SW26-2 EPG(M) for the protection of the seabed. No anchoring or disruptive vessel manoeuvres which could disturb the seabed or adjacent wildlife will take place within 0.5 miles of designated EPG(M) groups 2,3 and 5. Throughout the exercise all units will comply with the rules set out in the attached SW26-2 EPG(M) for the protection of the seabed.

Biodiversity and Nature

9. Throughout the exercise all units will comply with the rules set out in Tables 1 and 2 below.

10. No disruptive manoeuvres which could disturb the seabed or adjacent wildlife will take place within 0.5 miles of designated MPA.

11. Designated seal haul out sites are not identified within SW26-2 planning documents. Precautions to prevent harassment of seals will be employed throughout SW26-2 areas wherever seals are found ashore.

12. For mitigation of noise disruption see Para 7 above.

Historic Environment and Wrecks

13. It is assessed that SW26-2 will have **NEGLIGIBLE** impact on the historic environment and wrecks. However, all units will avoid anchoring which has the potential to disrupt or damage known charted wreck sites.

Other Issues

14. The impact on Oslo/Paris Convention for the Protection of the Marine Environment in the NE Atlantic 1992 (OSPAR) and The Convention of Wetlands (RAMSAR) sites is assessed as no greater than **MINOR**. Mitigation measures listed above apply equally to these sites which are included in the MPAs which have been identified as possibly being affected.

15. There are many Sites of Special Scientific Interest (SSSIs) along the coastal regions within the North West Scotland operating area. SSSIs are managed by local land owners or authorities who are responsible for having effective local site management plans in place or follow statutory processes. Where activity takes place on DIO managed MOD owned estate participants will abide by site specific range orders which take account of SSSIs. Overall, taking account of standard operating procedures and the additional mitigations covered here, the impact of SW26-2 activities on adjacent SSSIs is assessed as **NEGLIGIBLE**.

Actions by Planning Staff

16. JTEPS will brief all group and individual unit commanders and direct them to implement the listed mitigation. The participants will also receive a copy of this assessment and the Exercise Director's Environmental Command Guidance outlining the key environmental mitigation to ensure they abide by the actions listed in this document.

17. This assessment forms part of the SW26-2 planning process and will be updated to reflect any pertinent changes from that detailed in this document in the exercise activity or location. Before assigning any mission or task to subordinate Commanders/Units, the lead planner will be advised on the environmental guidelines for the intended areas.

18. Nothing within this statement relieves the Commanding Officers of their obligations to comply with legislation and the RN Navy Command environmental guidelines for activities they undertake.

19. Review E&S efficacy post exercise.

20. Archive this assessment for review and inclusion in future SW exercise planning.

TABLE 1

MITIGATION OF MILITARY ACTIVITY BY ACTIVITY TYPE AND ASSOCIATED MPA

POST MITIGATION ENVIRONMENTAL IMPACT LEVELS:

1. **Negligible** = No likelihood of any measurable disturbance or harm.
2. **Minor** = Low likelihood of localised or temporary disturbance or harm.
3. **Significant** = Residual risk of significant disturbance or harm.

Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
ASW	SO2 UW	10421 Wester Ross NCMPA 10422 Small Isles NCMPA 10448 Geikie Slide and Hebridean Slope NCMPA 10456 The Barra Fan and Hebrides Terrance Seamount NCMPA UK0012594 Rum SAC UK0012705 Sound of Barra SCI UK0013695 St Kilda SAC UK0030359 Stanton Banks SAC UK0030364 East Mingulay SAC UK0030385 Pobie Bank Reef SAC UK0030393 Inner Hebrides and the Minches SAC UK9001021 Flannan Isles SPA UK9001031 St Kilda SPA UK9001041 Shiant Isles SPA UK9001341 Rum SPA	For active sonar transmissions in addition to Environmental Guidelines the following specific mitigation is to be applied: -To keep the risk to marine mammals as “low” individual unit transmission are not to exceed the lowest of the following 3 limitations as follows (1) 214dB 1µ Pa @ 1m for 1 second pulse length, maximum of 6 pulses per minute, transmissions of up to 8 hours in any 24-hour period. OR (2) A source level where PTS and TTS are within the Mitigation Action Zone which is within 2000yards of the source unit. Transmissions are limited to a maximum of 6 pulses per minute and up to 8 hours in any 24-hour period. OR (3) In accordance with national guidelines

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Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
		UK9001431 Canna and Sanday SPA UK9020011 Rathlin Island SPA UK9020310 Coll and Tiree SPA UK9020318 Sound of Gigha SPA UK9020319 West Coast of the Outer Hebrides SPA 10474 Sea of the Hebrides NCMPA 10476 North-East Lewis NCMPA 10475 Shiant East Bank NCMPA 10571 West of Scotland NCMPA 10477 Southern Trench NCMPA UK0030399 North Channel SAC UK9020332 Seas off St Kilda SPA	- MMO are to be employed on deck 60 minutes prior to, during and 60 minutes after any transmission on active sonar. This may be reduced to 30 minutes in waters of 200m or less. - All means available are to be used to detect marine mammals. - All capable sonar devices will utilise ramp up procedures at the start of any transmission. - If marine mammals are observed within the MAZ for a sonar prior to transmission, a delay of 60 minutes will be implemented before transmissions are allowed. Similarly, if sonar is shut down as a result of detecting a marine mammal during transmissions, a period of 60 minutes will be allowed from last sighting before retransmitting. This time is reduced to 30 minutes if the area is passively acoustically monitored in waters of 200m or less.
AAW	SO2 AAW	10414 Clyde Sea Sill NCMPA 10421 Wester Ross NCMPA 10422 Small Isles NCMPA 10456 The Barra Fan and Hebrides Terrance Seamount NCMPA UK0012594 Rum SAC UK0013695 St Kilda SAC UK0030073 Achnahaird SAC UK0030230 Ascrib, Isay and Dunvegan SAC UK0030359 Stanton Banks SAC UK030364 East Mingulay SAC UK0030384 The Maidens SAC UK0030385 Pobie Bank Reef SAC UK13008 Coll Ramsar Site UK 13023 Gruinart Flats, Islay Ramsar Site	Nil in addition to Environmental Protection Guidelines (Maritime).

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Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
		UK 13052 Rinns of Islay Ramsar Site UK 13056 Tiree Wetlands and Coast Ramsar Site UK0012696 North Rona SAC UK 9001011 North Rona & Sula Sgeir SPA UK9001031 St Kilda SPA UK9001041 Shiant Isles SPA UK9001241 Handa SPA UK9001341 Rum SPA UK9001431 Canna and Sanday SPA UK9001781 Cuillins SPA UK9003032 Tiree Wetlands and Coast SPA UK9003033 Coll (Corncrake) SPA UK9003034 Tiree (Corncrake) SPA UK9003051 Gruinart Flats, Islay SPA UK 9003053 Laggan Islay SPA UK9003057 Rinns of Islay SPA UK9003058 The Oa SPA UK9020011 Rathlin Island SPA UK9020299 Oronsay & South Colonsay SPA UK9020310 Coll and Tiree SPA UK9020318 Sound of Gigha SPA UK9020319 West Coast of the Outer hebrides SPA 10451 North West Orkney NCM UK9020331 Seas off Foula SPA UK9020332 Seas off St Kilda SPA	

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Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
Uncrewed Surface Systems	SO2 SAW	10414 Clyde Sea Sill NCMPA 10421 Wester Ross NCMPA 10422 Small Isles NCMPA UK 0019802 Sound of Arisaig (Loch Ailort to Loch Ceann Traigh) UK 9001041 Shiant Isles SPA UK 9001341 Rum SPA UK 9001431 Canna and Sanday SPA UK 9001781 Cuillins SPA	In addition to Environmental Guidelines when operating where basking sharks have been sighted, operators should moderate speed and proceed in such a manner as to eliminate risk of collision and disturbance.
Amphibious landings	SO2 LIT(S)	10421 Wester Ross NCMPA 10584 10543 UK0030393 Inner Hebrides and the Minches SAC UK0030230	In addition to the Environmental Guidelines, operators must remain vigilant throughout the exercise for aggregations of marine mammals and for the presence of seals in shallow waters or hauled out of the water (resting). At all times disturbance to seals must be avoided and seals must never be approached by personnel due to their potential aggressive behaviour. Units will ensure procedures are in place (Spill Plan) to minimise the risk of pollution during landing operations.

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Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
Rotary and fixed wing flying	ALL	10414 Clyde Sea Sill NCMPA 10418 Loch Sunart to the Sound of Jura NCMPA 10421 Wester Ross NCMPA 10422 Small Isles NCMPA 10423 South Arran NCMPA 10448 Geikie Slide and Hebridean Slope NCMPA 10456 The Barra Fan and Hebrides Terrance Seamount NCMPA UK0012594 Rum SAC UK0012958 Ardmeanach SAC UK0012705 Sound of Barra SCI UK0012786 Durness SAC UK0013055 Oldshoremore and Sandwood SAC UK0013695 St Kilda SAC UK0014728 Coll Machair SAC UK0019802 Sound of Arisaig (Loch Ailort to Loch Ceann Traigh) UK0030041 Firth of Lorn SAC UK0030055 Rathlin Island SAC UK0030067 South East Islay Skerries SAC UK0030073 Achnahaird SAC UK0030108 Cape Wrath SAC UK0030191 Loch Fada SAC UK0030230 Ascrib, Isay and Dunvegan SAC UK0030289 Treshnish Isles SAC UK0030341 Oronsay SAC UK0030359 Stanton Banks SAC	In addition to Environmental Guidelines rotary wing operators are to avoid hovering above or repeated low level (<1000') overflight of the 9 highlighted MPA. See Chart 1 below for location of the 9 affected sites. Aircrew should also remain vigilant for aggregations of marine mammals and seals hauled out throughout the Exercise areas and avoid hovering or repeated low-level overflight in their vicinity. At all times disturbance must be avoided and seals must never be approached by personnel due to their potential aggressive behaviour. Aircraft are to adhere to the Low Flying System which includes designated areas which must be avoided.

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Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
		UK0030364 East Mingulay SAC UK0030385 Pobie Bank Reef SAC UK13023 Gruinart Flats, Islay Ramsar Site UK13052 Rinns of Islay Ramsar Site UK 3056 Tiree Wetlands and Coast Ramsar Site UK9001011 North Rona & Sula Sgeir SPA UK9001021 Flannan Isles SPA UK9001041 Shiant Isles SPA UK9001231 Cape Wrath SPA UK9001341 Rum SPA UK9001431 Canna and Sanday SPA UK9001781 Cuillins SPA UK9002181 Sule Skerry and Sule Stack SPA UK9003032 Tiree Wetlands and Coast SPA UK9003033 Coll (Corncrake) SPA UK9003034 Tiree (Corncrake) SPA UK 9003051 Gruinart Flats, Islay SPA UK9003053 Laggan Islay SPA UK9003057 Rinns of Islay SPA UK9003058 The Oa SPA UK903091 Ailsa Craig SPA UK9003311 Cnuic agus Cladach Mhuile SPA UK9020011 Rathlin Island SPA UK9020299 Oronsay & South Colonsay SPA UK9020304 Jura, Scarba and the Garvellachs SPA UK 9020310 Coll and Tiree SPA UK 9020318 Sound of Gigha SPA	

Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
		UK 9020319 West Coast of the Outer Hebrides SPA UK0012791 Hoy SAC 10451 North-West Orkney NCMPS UK9020331 Seas off Foula SPA UK9020332 Seas off St Kilda SPA	
Replenishment At Sea	SO2 AWW		Replenishment At Sea within the Sea of the Hebrides and North Minches is to be avoided and only conducted with the permission of the EXDIR. Within these areas the following corridors are to be used: Minches RAS Corridor. 5750N 00611W - 5750N 00600W - 5818N 00530W - 5900N 00530W - 5900N 00546W - 5810N 00546W. Sea of the Hebrides RAS Corridor. 5717N 00702W - 5717N 00650W - 5705N 00650W - 5625N 00730W - 5635N 00742W - 5652N 00715W - 5705N 00702W.
Gunnery	SO2 SAW	10456 The Barra Fan and Hebrides Terrance Seamount NCMPS UK0012786 Durness SAC UK0030108 Cape Wrath SAC UK0030192 Loch Laxford SAC UK9001231 Cape Wrath SPA UK0030386 Solan Bank Reef SAC	Gunnery at Cape Wrath will be in accordance with Range Orders, which include environmental mitigation measures.

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Activity	Lead JTEPS Planner	MPAs which may be affected requiring control measures	Mitigation Measures
Fast Inshore Attack Craft	SO2 SAW	10414 Clyde Sea Sill NCMPA 10421 Wester Ross NCMPA 10422 Small Isles NCMPA UK0019802 Sound of Arisaig (Loch Ailort to Loch Ceann Traigh) UK9001041 Shiant Isles SPA UK9001341 Rum SPA UK9001431 Canna and Sanday SPA UK9001781 Cuillins SPA	In addition to Environmental Guidelines when operating where basking sharks have been sighted, operators should moderate speed and proceed in such a manner as to eliminate risk of collision and disturbance.
Anchoring	ALL		Standard environmental controls during Strike Warrior recommend the restriction of non-essential anchoring. Bottom-disturbing evolutions, or mine countermeasures work to designated safe buffer zones are to maintain a 0.5-mile standoff from EPG(M) groups 3 and 5..

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TABLE 2

MARITIME PROTECTED AREAS IN PROXIMITY TO MILITARY ACTIVITY AND ASSOCIATED ENVIRONMENTAL GUIDELINES

Group 1

**Maritime Protected Areas designated primarily for the protection of birds including Specially Protected Area and RAMSAR sites
(RAMSAR site refers to a wetland site of international importance)**

MPA DETAILS		ENVIRONMENTAL ACTIVITY GUIDELINES
UK 13008	Coll Ramsar Site	RESTRICTED ACTIVITIES AIR: 1. No activity involving air launch of live or inert munitions should take place inside or within 500 yards of the MPAs unless such firings are programmed with an established MOD air weapons range when local range orders are to be observed. ANTI-AIR AND ANTI-SURFACE WARFARE: 1. No activity involving the firing of live or inert munitions should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. SUBMARINE AND ANTI-SUBMARINE WARFARE: 1. No activities involving live or inert firings or exploded ordnance should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. GENERAL AND INSHORE ACTIVITIES: 1. No activities involving live firings, exploding ordnance, smoke or flares are to take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. MCM AND EOD: 1. No activities involving exploding ordnance should take place inside or within 500 yards of the MPAs unless cleared as operationally essential (see Note 1) or unless such firings are programmed within an established MOD weapons range when local range orders are to be observed.
UK 13023	Gruinart Flats, Islay Ramsar Site	
UK 13052	Rinns of Islay Ramsar Site	
UK 13056	Tiree Wetlands and Coast Ramsar Site	
UK 9001011	North Rona & Sula Sgeir SPA	
UK9001021	Flannan Isles SPA	
UK9001031	St Kilda SPA	
UK9001041	Shiant Isles SPA	
UK9001121	Mingulay and Berneray SPA	
UK 9001131	Pentland Firth Islands SPA	
UK9001231	Cape Wrath SPA	
UK9001241	Handa SPA	
UK9001341	Rum SPA	
UK9001431	Canna and Sanday SPA	
UK9001781	Cuillins SPA	
UK9002181	Sule Skerry and Sule Stack SPA	
UK9003032	Tiree Wetlands and Coast SPA	
UK9003033	Coll (Corncrake) SPA	

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UK9003034 Tiree (Corncrake) SPA UK9003051 Gruinart Flats, Islay SPA UK9003053 Laggan Islay SPA UK9003057 Rinns of Islay SPA UK9003058 The Oa SPA UK9003091 Ailsa Craig SPA UK9003171 North Colonsay & Western Cliffs SPA UK9003311 Cnuic agus Cladach Mhuile SPA UK9020011 Rathlin Island SPA UK9020021 Sheep Island SPA UK9020299 Oronsay & South Colonsay SPA UK9020304 Jura, Scarba and the Garvellachs SPA UK9020310 Coll and Tiree SPA UK9020317 Pentland Firth pSPA UK9020318 Sound of Gigha SPA UK9020319 West Coast of the Outer Hebrides SPA UK9020332 Seas off St Kilda SPA UK9020331 Seas off Foula SPA UK9020316 Outer Firth of Forth and St Andrews Bay Complex SPA	CONTROL MEASURES REQUIRED AIR: 1. All flying operations are to be in accordance with the UK Military Low Flying System (UKLFS) (see Note 2). SUBMARINE AND ANTI-SUBMARINE: 1. All activities involving the use of active sonar are to be in accordance with the Command Guidance in BRd 4985 Vol.5 and s2117 assessment tool. GENERAL AND INSHORE ACTIVITIES: 1. Activities involving the use of fixed seabed arrays for acoustic trials, noise ranging and degaussing should be conducted within the established range limits and in accordance with range orders. 2. Use of sonar in surveying is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool. 3. Parachuting is only to take place with prior approval of the Unit's operational commander. Such approval must be informed by the Environmental Protection (EP) staff of Defence Training Estates (DTE). 4. Fast Inshore Attack Craft (FIAC) and Landing Craft Air Cushion (LCAC), When operating inside these MPAs where rafting aggregations of sea birds have been sighted, operators should moderate speed and proceed in such a manner as to eliminate risk of unnecessary disturbance. This control applies equally to high speed/power manoeuvres by any vessel. AMPHIBIOUS: 1. Amphibious landings (including use of Landing Craft Air Cushion; LCAC) may take place across any shoreline within the area limits of the MPAs but must have the prior approval of the Unit's Operational Commander. MCM AND EOD: 1. Use of sonar for MCM is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool. NO ADDITIONAL CONTROL MEASURES REQUIRED SUBMARINE AND ANTI-SUBMARINE WARFARE: 1. All activities not involving weapon firings or exploding ordnance. ANTI-AIR AND ANTI-SURFACE WARFARE: 1. All Activities not involving weapons firings. GENERAL AND INSHORE ACTIVITIES: 1. Activities relating to seabed sampling and equipment attachment to the seabed. 2. Human diving. MCM AND EOD: 1. All activities not involving weapons firings and exploding ordnance.
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MISCELLANEOUS (see Note 3):

1. No restrictions on RAS, boarding, anti-piracy or anchoring.

GENERAL:

1. Units should remain vigilant at all times and moderate activities in accordance with SOPs whenever random encounters with marine mammals or aggregations of seabirds occur.

Note 1: Operationally essential is defined as activities conducted during hostilities or activities or for which there is an overriding public interest – in which case, a MESAT assessment is recommended, to determine level of environmental risk.

Note 2: Seasonal avoidance of specific Schedule 1 nesting and breeding sites may be required and will be promulgated by UKLFS CAT Y NOTAM.

Note 3: Miscellaneous activities include e.g. RAS, boarding, anti-piracy, high speed / power manoeuvres, sea-boat drills and anchoring.

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Group 2

Maritime Protected Areas for the protection of general coastal features

MPA DETAILS	ENVIRONMENTAL ACTIVITY GUIDELINES
UK0012958 Ardmeanach SAC UK0013055 Oldshoremore and Sandwood SAC UK0014728 Coll Machair SAC UK0030073 Achnahaird SAC UK0030108 Cape Wrath SAC UK0030341 Oronsay SAC UK0012791 Hoy SAC	RESTRICTED ACTIVITIES AIR: 1. No activity involving air launch of live or inert munitions with land or sea surface impact should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD air weapons range when local range orders are to be observed. ANTI-AIR AND ANTI-SURFACE WARFARE: 1. No activity involving firing of live or inert munitions with land or sea surface impact should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. SUBMARINE AND ANTI-SUBMARINE WARFARE: 1. No activities involving live or inert firings or exploding ordnance should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. GENERAL AND INSHORE ACTIVITIES: 1. No live or inert weapon trials should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. MCM AND EOD: 1. No MCM or mine laying (including dummy mines) should take place within 0.5 nm of the MPAs. 2. No activities involving exploding ordnance should take place inside or within 500 yards of the MPAs unless cleared as operationally essential (see Note 1) or unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. MISCELLANEOUS (See Note 2): 1. Anchoring should not take place in or within 0.5 nm of the MPAs unless specifically cleared within harbour limits as part of port authorities' management plans. CONTROL MEASURES REQUIRED AIR: 1. All flying activities are to be in accordance with the UK Military Low Flying System (UKLFS).

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SUBMARINE AND ANTI-SUBMARINE WARFARE:

1. All activities involving the use of active sonar are to be in accordance with the Command Guidance in BRd 4985 Vol.5 and s2117 assessment tool.

GENERAL AND INSHORE ACTIVITIES:

1. Activities involving the use of fixed seabed arrays for acoustic trials, noise ranging and degaussing are to be conducted within the established range limits and in accordance with range orders.
2. Use of sonar in surveying is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool.

AMPHIBIOUS:

1. Amphibious landing operations (including use of Landing Craft Air Cushion; LCAC and parachuting of personnel and equipment) may take place across any shoreline within the area limits of the MPAs but must have the prior approval of the Unit's Operational Commander.

MCM AND EOD:

2. Use of sonar for MCM is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool.

NO ADDITIONAL CONTROL MEASURES REQUIRED

AIR:

1. Air to air weapons firings.

ANTI-AIR AND ANTI-SURFACE WARFARE:

1. Any activity not involving firings.

SUBMARINE AND ANTI-SUBMARINE WARFARE:

1. Any activities not involving firings.
2. All activities involving the use of active sonar are to be in accordance with the Command Guidance in BRd 4985 Vol.5 and s2117 assessment tool.

GENERAL AND INSHORE ACTIVITIES:

1. Use of flares or smoke.
2. Activities relating to seabed sampling, equipment attachment and human diving.
3. Fast Inshore Attack Craft (FIAC).
4. Use of sonar in surveying is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool.

MCM AND EOD:

OFFICIAL

1. Use of ROV.

MISCELLANEOUS (See Note 2):

1. No restrictions on miscellaneous activities except for anchoring as stated above.

Note 1: Operationally essential is defined as activities conducted during hostilities or activities or for which there is an overriding public interest – in which case, a MESAT assessment is recommended, to determine level of environmental risk.

Note 2: Miscellaneous activities include e.g. RAS, boarding, anti-piracy, high speed / power manoeuvres, sea-boat drills and anchoring.

OFFICIAL

Group 3

Maritime Protected Areas designated primarily for the protection of benthic seabed features with some depths less than 20m

MPA DETAILS	ENVIRONMENTAL ACTIVITY GUIDELINES
10414 Clyde Sea Sill NCMPA 10418 Loch Sunart to the Sound of Jura NCMPA 10421 Wester Ross NCMPA 10422 Small Isles NCMPA 10423 South Arran NCMPA UK0013695 St Kilda SAC UK0019802 Sound of Arisaig (Loch Ailort to Loch Ceann Traigh) UK0030041 Firth of Lorn SAC UK0030055 Rathlin Island SAC UK0030191 Loch Fada SAC UK0030192 Loch Laxford SAC 10451 North West Orkney NCMPA	RESTRICTED ACTIVITIES AIR: 1. No air launched firings involving sea surface or water column impact or explosions should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD air weapons range when local range orders are to be observed. ANTI-AIR AND ANTI-SURFACE WARFARE: 1. No activity involving sea surface or water column explosions should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. SUBMARINE AND ANTI-SUBMARINE WARFARE: 1. No activities involving exploding ordnance should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. 2. No physical interaction with the seabed should occur within the MPAs. GENERAL AND INSHORE ACTIVITIES: 1. No activities involving live firings or exploding ordnance should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. 2. Anchoring should not take place within 0.5 nm of the MPAs unless specifically cleared within harbour limits as part of the port authorities' management plans. 3. No human diving incorporating interactions with the seabed should take place within the MPAs. 4. No seabed samples should be taken and no equipment should be attached to the seabed with the MPAs. MCM AND EOD: 1. No MCM or minelaying activities (including dummy mines) should take place within 0.5 nm of the MPAs. 2. No activities involving exploding ordnance should take place inside or within 500 yards of the MPAs unless cleared as operationally essential (see Note 1) or unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. AMPHIBIOUS:

OFFICIAL

1. Amphibious landings (including Landing Craft Air Cushion; LCAC) are prohibited across any shoreline within the area limits of the MPAs without the prior approval of the Unit's Operational Command, unless within an established MOD site when local orders are to be observed.

GENERAL AND INSHORE ACTIVITIES:

1. Human diving activities including interaction with the seabed, should not take place within the MPAs.
2. No seabed samples should be taken within the MPA, and survey equipment should not be attached to the seabed.

CONTROL MEASURES REQUIRED

AIR:

1. All flying operations are to be in accordance with the UK Military Low Flying System (UKLFS).

SUBMARINE AND ANTI-SUBMARINE WARFARE:

1. All activities involving the use of active sonar are to be in accordance with the Command Guidance in BRd 4985 Vol.5 and s2117 assessment tool.

GENERAL AND INSHORE ACTIVITIES:

1. Activities involving the use of fixed seabed arrays for acoustic trials, noise ranging and degaussing are to be conducted within the established range limits and in accordance with range orders.
2. Use of sonar in surveying is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool.
3. Fast Inshore Attack Craft (FIAC) and Landing Craft Air Cushion (LCAC). When operating inside these MPAs and in shallow waters operators should moderate speed and proceed in such a manner as to avoid disturbance of the seabed.

MCM AND EOD:

1. Use of sonar for MCM is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool.

NO ADDITIONAL CONROL MEASURES REQUIRED

AIR:

1. Air-to-air and air-to-land surface firings.

ANTI-AIR AND ANTI-SURFACE WARFARE:

1. All activities not involving sea surface or water column explosions.

SUBMARINE AND ANTI-SUBMARINE WARFARE:

1. All activities not involving exploding ordnance.

GENERAL AND INSHORE ACTIVITIES:

1. Parachuting of personnel and stores or equipment.
2. Use of flares and smoke.

OFFICIAL

MCM AND EOD:

1. Use of ROV.

MISCELLANEOUS (see Note 2):

1. No restrictions on miscellaneous activities except for anchoring as stated above.

Note 1: Operationally essential is defined as activities conducted during hostilities or activities or for which there is an overriding public interest – in which case, a full MESAT assessment is recommended, to determine level of environmental risk.

Note 2: Miscellaneous activities include e.g. RAS, boarding, anti-piracy, high speed / power manoeuvres, sea-boat drills and anchoring.

OFFICIAL

Group 4

Maritime Protected Areas with marine mammal interests including whales, dolphins and seals

MPA DETAILS	ENVIRONMENTAL ACTIVITY GUIDELINES
UK0012594 Rum SAC UK0012705 Sound of Barra SCI UK0012786 Durness SAC UK0030067 South East Islay Skerries SAC UK0030230 Ascrib, Isay and Dunvegan SAC UK0030289 Treshnish Isles SAC UK0030383 Skerries and Causeway SAC UK0030384 The Maidens SAC UK0030393 Inner Hebrides and the Minches SAC UK0012696 North Rona SAC 10474 Sea of the Hebrides NCMPA 10476 North-East Lewis NCMPA 10475 Shiant East Bank NCMPA 10477 Southern Trench MPA 10571 West of Scotland NCMPA 10477 Southern Trench NCMPA UK0030399 North Channel SAC	RESTRICTED ACTIVITIES AIR: 1. No activity involving the air launch of live or inert munitions with land or sea surface impact should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD air weapons range when local range orders are to be observed. ANTI-AIR AND ANTI-SURFACE WARFARE: 1. No activity involving firing of live or inert munitions should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. SUBMARINE AND ANTI-SUBMARINE WARFARE: 1. No activities involving live or inert firings or exploding ordnance should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. GENERAL AND INSHORE ACTIVITIES: 1. No activities involving live firings, exploding ordnance, smoke or flares should take place inside or within 500 yards of the MPAs unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. MCM AND EOD: 1. No MCM or minelaying activities (including dummy mines) should take place within 0.5 nm of the MPAs. 2. No activities involving exploding ordnance should take place inside or within 500 yards of the MPAs unless cleared as operationally essential (see Note 1), or unless such firings are programmed within an established MOD weapons range when local range orders are to be observed. CONTROL MEASURES REQUIRED AIR: 1. All flying activities are to be in accordance with the UK Military Low Flying System (UKLFS) (Note 2). Caution should be exercised when flying over sighted aggregations of cetaceans, avoiding hovering or low-level activities overhead. SUBMARINE AND ANTI-SUBMARINE WARFARE:

OFFICIAL

1. All activities involving the use of active sonar are to be in accordance with the Command Guidance in BRd 4985 Vol.5 and s2117 assessment tool, noting that within Group 4 MPAs, units should routinely operate at low risk.

GENERAL AND INSHORE ACTIVITIES:

1. Activities involving the use of fixed seabed arrays for acoustic trials, noise ranging and degaussing are to be conducted within the established range limits and in accordance with range orders.
2. Surveying should not take place inside or within 500 yards of the MPAs unless prior agreement has been reached with appropriate authorities.
3. Use of sonar in surveying is to be in accordance with the Command Guidance in BRd 4985 Vol.5 and s2117 assessment tool.
4. Parachuting is only to take place with prior approval of the Unit's operational commander. Such approval must be informed by the Environmental Protection (EP) staff of Defence Training Estates (DTE).
5. Fast Inshore Attack Craft (FIAC) and Landing Craft Air Cushion (LCAC). When operating inside these MPAs where marine mammals and / or basking sharks have been sighted, operators should moderate speed and proceed in such a manner as to eliminate risk of collision and disturbance. This control applies equally to high speed/power manoeuvres by any vessel.

AMPHIBIOUS:

1. Amphibious landings (including use of Landing Craft Air Cushion; LCAC) may take place across any shoreline within the area limits of the MPAs but must have the prior approval of the Unit's Operational Commander.

MCM AND EOD:

3. Use of sonar for MCM is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool.

NO ADDITIONAL CONTROL MEASURES REQUIRED

ANTI-AIR AND ANTI-SURFACE WARFARE:

1. All activities not involving weapon firings or explosions.

SUBMARINE AND ANTI-SUBMARINE WARFARE:

1. All activities not involving weapon firings or explosions.

MCM AND EOD:

1. Use of ROV.

GENERAL AND INSHORE ACTIVITIES:

1. Activities relating to seabed sampling, seabed equipment attachment and human diving (see control measures for use of sonar). Such activities are to be moderated to take account of any marine mammals in the close vicinity.
2. Units are to remain vigilant at all times and moderate activities in accordance with SOPs whenever random encounters with marine mammals or rafting aggregates of seabirds occur.

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MISCELLANEOUS (see Note 3):

1. No restrictions on miscellaneous activities except for high speed/power manoeuvres as stated above.

Note 1: Operationally essential is defined as activities conducted during hostilities or activities or for which there is an overriding public interest – in which case, a full MESAT assessment is recommended, to determine level of environmental risk.

Note 2: Seasonal avoidance of specific Schedule 1 nesting and breeding sites may be required and will be promulgated by UKLFS CAT Y NOTAM.

Note 3: Miscellaneous activities include e.g. RAS, boarding, anti-piracy, high speed / power manoeuvres, sea-boat drills and anchoring.

OFFICIAL

Group 5

Benthic seabed features entirely at depths greater than 20m

MPA DETAILS	ENVIRONMENTAL ACTIVITY GUIDELINES
10448 Geikie Slide and Hebridean Slope NCMPA 10456 The Barra Fan and Hebrides Terrance Seamount NCMPA UK0030359 Stanton Banks SAC UK0030364 East Mingulay SAC UK0030385 Pobie Bank Reef SAC UK0030386 Solan Bank Reef SAC	RESTRICTED ACTIVITIES MCM AND EOD: 1. No MCM or minelaying activities (including dummy mines) should take place within 0.5nm of the MPA. 2. No activities involving exploding ordnance on the seabed should take place inside or within 500 yards of the MPAs unless cleared as operationally essential (see Note 1) or unless firings are programmed within an established MOD weapons range when local range orders are to be observed. Note MISCELLANEOUS (see Note 2): 1. No anchoring should take place in or within 0.5 nm of the MPAs. SUBMARINE AND ANTI-SUBMARINE WARFARE: 1. No physical interaction with the seabed should occur within the MPAs. GENERAL AND INSHORE ACTIVITIES: 1. No human diving incorporating interactions with the seabed should take place within the MPAs. 2. No seabed samples should be taken, and no equipment should be attached to the seabed with the MPAs. CONTROL MEASURES REQUIRED SUBMARINE AND ANTI-SUBMARINE WARFARE: 1. All activities involving the use of active sonar are to be in accordance with the Command Guidance in BRd 4985 Vol.5 and s2117 assessment tool. GENERAL AND INSHORE ACTIVITIES: 1. Activities involving the use of fixed seabed arrays for acoustic trials, noise ranging and degaussing are to be conducted within the established range limits and in accordance with range orders. 2. Use of sonar in surveying is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool. MCM AND EOD: 1. Use of sonar in MCM is to be in accordance with the Command Guidance in BRd 4985 and s2117 assessment tool.

OFFICIAL

NO ADDITIONAL CONTROL MEASURES REQUIRED

AIR:

1. Firings, both live and inert, are to be managed in accordance with established MOD clear range procedures.

ANTI-AIR AND ANTI-SURFACE WARFARE:

1. All forms of anti-air and anti-surface firings, both live and inert, are to be conducted in accordance with established MOD clear range procedures.

SUBMARINE AND ANTI-SUBMARINE WARFARE:

1. All activities involving live or inert firings are to be conducted in accordance with established MOD clear range procedures.

GENERAL AND INSHORE ACTIVITIES:

1. Use of flares or smoke.
2. Parachuting of personnel and stores or equipment.
3. Fast Inshore Attack Craft (FIAC) and Landing Craft Air Cushion (LCAC).

MCM AND EOD:

1. Use of ROV.

MISCELLANEOUS (see Note 2):

1. No restrictions apart from anchoring.

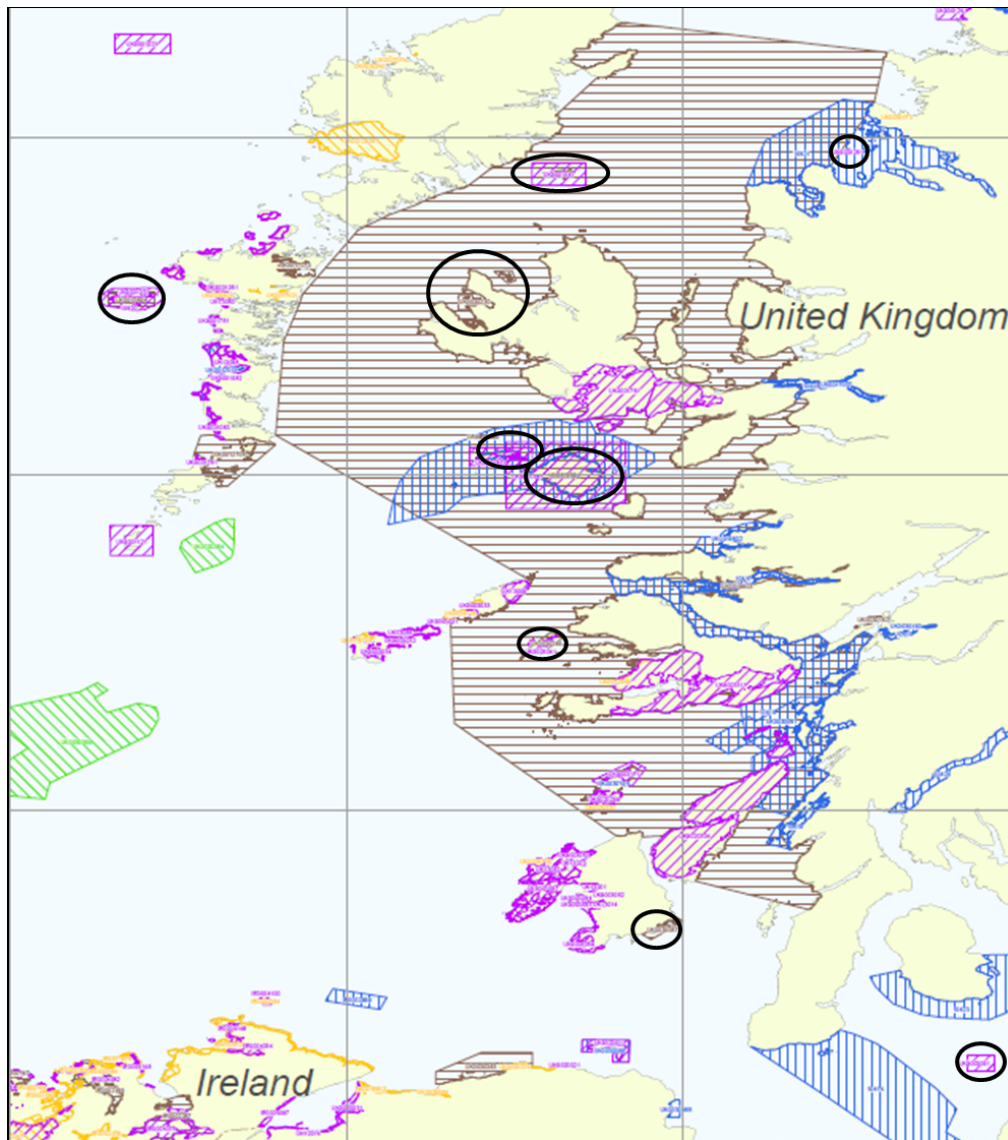
GENERAL:

1. Units should remain vigilant at all times and moderate activities in accordance with SOPs whenever random encounters with marine mammals or aggregations of seabirds occur.

Note 1: Operationally essential is defined as activities conducted during hostilities or activities or for which there is an overriding public interest – in which case, a full MESAT assessment is recommended, to determine level of environmental risk.

Note 2: Miscellaneous activities include e.g. RAS, boarding, anti-piracy, high speed / power manoeuvres, sea-boat drills and anchoring.

Chart 1 – Additional Rotary Wing Mitigation – NW Scotland



Note - Restrictions apply within the coloured polygons and not the outlined ovals. Ovals are provided for ease of identification only.