

Shoreline sensitivity

Map 6502 - Kangia

Environmental Description

Resource use

- R 140 One river outlet with important fishing for Arctic char, coastline with fishing areas for lumpsucker (important, **S32**) and capelin (incl. spawning area, **S32**), area with fishery for redfish, pound net fishing for cod, occasional hunting.
- R 143 One river outlet with important fishery for Arctic char (**S34**), coastline with fishing areas for capelin (incl. spawning area, **S34**), lumpsucker (important) and Arctic char, cod (pound net) and wolffish fishing areas, probably important hunting area.
- R 144 One river outlet with important fishery for Arctic char (**S35**), important fishery for capelin along coast (**S35**), areas with fishery for cod (pound net) and wolffish, important hunting area.
- R 145 Fishery along coastline for capelin (important, **S35**, **S81**) and Arctic char (**S81**), fishing areas for cod and wolffish, important hunting area for a.o. seals.
- R 146 Fishing areas for lumpsucker and wolffish, important area for hunting a.o. for seals.
- R 152 Two river outlets with important fishery for Arctic char (**S37**), important coastal fishery for capelin (**S37**), pound net fishing area for cod, hunting area especially for seals.
- R 154 One river outlet with important fishery for Arctic char, important coastal fishery for capelin, fishing area for cod, hunting area especially for seals.

Species occurrence

- Al152 Six alcid breeding colonies with Brünnich's guillemots and razorbills.
- Ar140 Three river outlets and adjacent bays with important Arctic char fishery (**S32**).
- Ar143 One river outlet with important Arctic char fishery also fishery along coasts of Tasiussaq and south of Upernivik (**S34**).
- Ar144 Two river outlets with important Arctic char fishery also fishery along coasts of Kangia (**S35**).
- Ar145 Arctic char fishery along all coasts east and north of Ikerasak.
- Ar152 Two river outlets with important Arctic char fishery (**S37**).
- Ca140 Capelin fishery along all coasts (**S32**).
- Ca143 Capelin fishery along all coasts (**S34**).
- Ca144 Capelin fishery along all coasts (**S35**).
- Ca145 Capelin fishery along all coasts (**S81**).
- Ca146 Important capelin fishery.
- Ca152 Important capelin fishery along all coast (**S37**).
- Ca154 Important capelin fishery along all coast.
- Gu152 Four gull breeding colonies with Iceland gulls and kittiwakes.
- Lu140 Lumpsucker fishery along most of the coasts, important in southern part (**S32**).

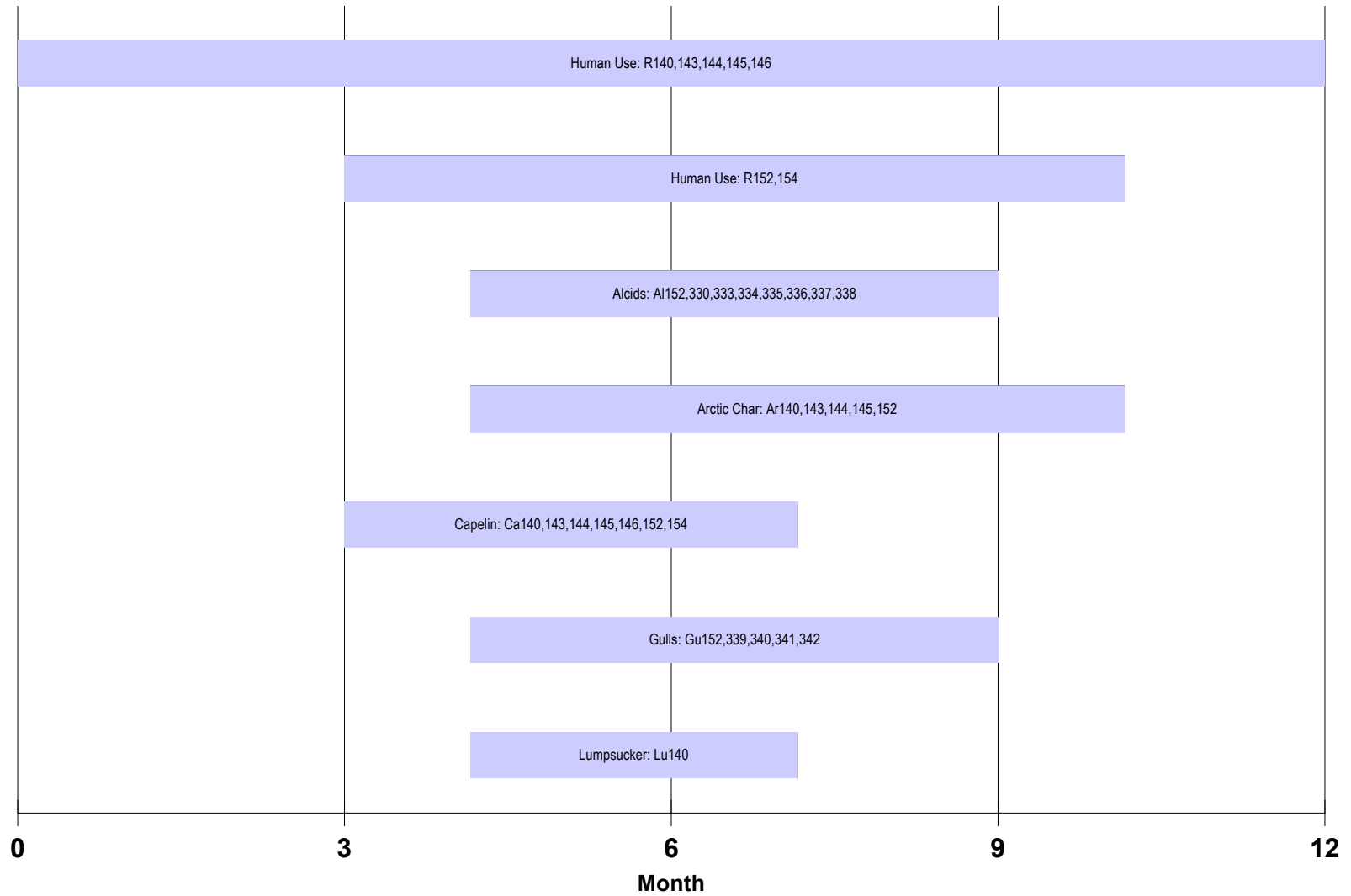
Site specific species occurrence indicated with blue icons on map (seabird breeding colonies)

- Al330 Razorbills and black guillemots.
- Al333, Al334 Razorbills.
- Al335 Brünnich's guillemots, razorbills (**S36**).
- Al336 Razorbills (**S36**).
- Al337 Razorbills.
- Gu339, Gu340 Kittiwakes.
- Gu341, Gu342 Kittiwakes and Iceland gulls (**S36**).

Shoreline sensitivity summary

Area	Sensitivity value	Ranking
140	39	High
143	36	High
144	40	High
145	41	High
146	28	Moderate
152	61	Extreme
154	38	High

Map 6502 Species and Resource Occurrences



Physical Environment and Logistics

MAP 6502 - Kangia

Countermeasures

In ice concentrations down to six tenths, *in situ* burning of oil in conjunction with tracking oiled ice is recommended. In open water conditions in nearshore areas, containment for recovery or burning is recommended. Dispersant application to protect waterfowl should be considered in the nearshore waters.

Although no current information is available for the many inlets and fjords on this map, the tidal range (3 to 4 m), the geometry of the inlets, and the high reported tidal velocities in a few fjords, suggest that exclusion booming (applicable in currents up to 0.4 m/s to 0.75 knots) of these features would not likely be successful, and is thus not recommended. If local knowledge suggests areas where tidal velocities are less than a knot, exclusion booming could be attempted across fjords or inlets that are up to a kilometre or less in width. Alternatively, diversion booming could be attempted to protect sensitive areas, but even this will not likely succeed in currents exceeding 1.5 m/s (3 knots), due to the excessive lengths of boom and the number of intermediate anchors required to maintain the required angle of the boom to the current. The requirement to constantly change boom angle with changing tidal stream direction would further complicate diversion booming operations.

Nearshore countermeasures represent the only practical method of protecting most shoreline areas, including the selected area in Isortoq (**S36**).

Deploying 1000 m of boom across the midpoint of Kangia could prevent oil (providing the currents are sufficiently low) from entering the upper portion of the selected area (**S35**). Exclusion booming utilising 500 m of boom across the entrance channel to the unnamed inlet north of Tasiusaq (**S34**) could protect the selected areas, providing currents are in an acceptable range. The selected area in Qerrulik (**S32**) could be similarly protected with 1000 m of boom.

Shorelines shown on this map are entirely exposed rock which may not require active cleaning efforts unless heavily contaminated with heavy oils.

Physical Environment and Logistics**MAP 6502 - Kangia****Access**

The nearshore waters in this area are largely uncharted and caution should be exercised. In general, the waters offshore, nearshore, and within the fjords are deep, however, uncharted dangers may exist due to shoaling and islets.

Tide and current information is not available for this area. Strong tidal streams are reported in the islands in the vicinity of Napasoq at the entrance to Kangia.

The outer part of Kangia is reported to be deep but has many rocks and islets: no soundings are available within the fjord.

Shorelines within this area are almost exclusively rock making shoreline access difficult.

An all-season, asphalt surface airport (799 x 30 m) is available at Maniitsoq (Map 6501).

Safe havens

There are no safe havens identified on this map. The nearest is identified on Map 6501 to the west.

Maps

Geodetic map: 65 V.1 Sukkertoppen. Nautical chart: 1314.

