

8th CSPCWG Meeting  
Turku, Finland, 29 November – 2 December 2011

Paper for Consideration by CSPCWG  
Cliff Symbol

<b>Submitted by:</b>	NZ
<b>Executive Summary:</b>	NZ does not meet S-4 B-312.1 symbol C3 (rocky cliffs) which shows the cliff crest broken and the slope lines of varying length.
<b>Related Documents:</b>	S-4
<b>Related Projects:</b>	None

**Introduction / Background.**

NZ does not break the cliff crest or vary the length of the slope lines as shown in the first cliff symbol C3 (rocky cliffs). In the past, when charts were produced manually by scribing, the cliff symbol in C3 (rocky cliffs) was used. Now, our chart production software CARIS HPD does not automatically produce a cliff symbol with the crest line broken. The cliff crest is one continuous line, broken only where the cliff actually breaks. Also the slope lines are all one length. See following example.

**Analysis / Discussion.**

Over the last 10 years the NZ Hydrographic Authority has worked towards bringing all NZ charts into alignment with S-4. This includes matching the symbols shown in S-4. However our software does not automatically produce a cliff symbol with the crest line broken or slope lines of varying length. The symbol library could be changed to better match C3 (rocky cliffs) but this will create a symbol that will not reproduce C3 (rocky cliffs) exactly and will require manual editing to look acceptable. This is time consuming.

As a result our cliff symbol looks closer to the second example in C3 (non-rocky cliff). We would like to know whether this is the experience of other nations that now produce charts electronically.

**Conclusions.**

If other nations don't break the crest line of the cliff symbol or vary the length of the slope lines, a new example could be given in S-4 B-312.1 C3.

**Recommendations.**

None.

**Justification and Impacts.**

INT 1 would be affected.

**Action required of CSPCWG.**

The CSPCWG is invited to:

Consider and discuss the depiction of cliffs.

This nautical chart depicts the Motukara Bank area, featuring several bays and points. The landmasses are shown in light green and yellow, with contour lines indicating elevation. Key locations include Green Bay at the top, Wood Bay, Otoru Bay, French Bay (Otoru Bay), and Shag Point. The chart is filled with depth soundings in meters, ranging from 1 to 15. Numerous navigational aids are marked, including buoys (No. 4, 6, 8, 10, 13, 15A) and lights (No. 13, 15A). A prominent feature is the depiction of cliffs, shown as a series of short, parallel lines along the coastlines of Green Bay, Wood Bay, and French Bay. Other features include Titirangi Beach, Paturua Bay, and various ramps and structures like M.S.M. St. and M.Sh. 11.6.