WHARF SITE
S 00 deg, 37.826 min
E 073 deg, 06.175 min

This is the only site suitable for S-Pol. This is because of the overall horizon and logistics. Logistically it is very easy since it can be driven onto directly off the main road. The surface is flat, reclaimed land of hard packed sand/coral. Power is also readily available along the road which is no more than 350 m away. Also, wide-band high-speed internet is easily available.

This site is also large enough to accommodate any other instrumentation.

The entire eastern semi-circle is an unobstructed view over the ocean with the exception of a 5-10 deg sector extending to a maximum of 1.5 deg directly to the east caused by the Wharf buildings. It is roughly estimated that sea clutter will extend to a radar range of at least 20 km but this is very uncertain.

Palm trees and Ironwood trees make-up the horizon in the western semi-circle. The highest obstruction is 3 to 3.5 deg centered at roughly 320 deg caused by 150 ft high Ironwood trees. Tree blockage of 2 deg or more extends over 60 deg from an azimuth of 270 to 330 deg. Tree blockage greater than 1 deg is present between roughly 220 and 330 deg. It is possible the Ironwood trees will be cut back some.
This site is only suitable for the SMART R. Access is via a narrow sand/coral road. The road will require some widening and repair. The site has a 360 deg view that is as good or better than the Wharf site. There is a 200 deg unobstructed eastern view over the water from about 170 deg through 90 deg to 330 deg.

The western horizon has tree blockage that is mostly between 1 and 2 degrees. There is one small group of trees < 10 deg in azimuth near 230 deg that extends to an elevation of 5 deg.

**Note** - just east of this location is a small reclaimed island ‘Fantasy Island’ that would make an excellent S-pol site. It is marked in the panorama. The entire horizon might be below 1 deg. It would be a significant challenge but worth keeping in mind if difficulties arise with the Wharf site.
Hitaddu Bridge Site

<table>
<thead>
<tr>
<th>West side</th>
<th>East Side</th>
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<tbody>
<tr>
<td>S 00 deg 39.085 min</td>
<td>S 00 deg 39.047 min</td>
</tr>
<tr>
<td>E 73 deg 06.467 min</td>
<td>E 73 deg 06.475</td>
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</tbody>
</table>

Sites are across road from one another. Palms run between them.
West side view over water from roughly 170 - 320 deg (150 deg)
East side view over water from roughly 350 – 150 deg (160 deg)

This is a potential site for SMART-R, assuming it remains mobile
during the project
Bridge Site
Magmendhoo
S 00 deg 37.188 min
E 073 deg 05.894 min

Pictures were taken at 20 ft. Several locations were examined in this general area and none were better than this location.

Sea clutter would be eliminated from this site however a big penalty is paid in beam blockage.

This site is not suitable for any of the scanning radars because of extensive tree blocking. The elevation angles on the panorama are for the general horizon and do not include the numerous isolated trees that extend higher.
Military Site

S 0.699 deg
E 73.139 deg

This site has a 210 deg unobstructed view over the Ocean towards the SW. This site is also a possibility for the SMART-R
The view is from about 120deg westward to 330 deg. The remainder is mostly blocked.

The military is very anxious for us to locate there. They will clear the necessary low growth to make the site suitable.
View from ‘Military Site to south of Addu Atoll

120 deg

210 deg

330 deg