

SURVEY UNIT,

MINISTRY OF HOUSING AND ENVIRONMENT
Ameenee Magu, Maafannu, Male', 20392, Maldives.
Office (PABX): +(960) 3004300, Fax: +(960) 3004301
Email: survey@mhe.gov.mv
Web: www.mhe.gov.mv



CONTROL POINT DETAILS	Station Number: PSM 5136
Coordinate Information	
Geodetic	Grid
WGS 84	UTM Zone 43
Lat: 4°11'59.99028"N	E: 323889.3255m
Long: 73°24'47.90386"E	N: 464412.8632m
Ellp Height: -90.839	Ortho Height: 0.992

Date: 13th May 2012

Monument description & method of survey:

PSM type: PSM type A (finish level approx 150mm above ground level; additional 2ftx2ft footing provided for support)

PSM was established using Topcon HiperII DGPS system. Static survey method was used for establishing the horizontal coordinate. Three PSM was set at the site and data collect from three transect lines of the triangle. Approximately 6hrs of data for line PSM5136-5137 and 1hr data for line 5136-5138. Correction and adjustment are made using Topcon Tools software. MSL established by transferring level from PSM5137 as par to of level run.

General site condition & access:

The PSM 5136 is located close to the arrival jetty at the eastern side of the island. The PSM is in line of sight to PSM 5137 close to the old bar facility. The PSM can be accessible from the beach and walkway leading from the harbor. Sky view is obstructed at the northern side (obstructing at 30° elevation angle), southern eastern side (obstructing at 30° elevation angle), south western side (obstructing at 30° elevation angle) and north western side (obstructing at 45° elevation angle).

Owner: Giraavaru Island Resort. The resort management takes full responsibility for safeguarding the PSM.



North



East



South



West



Photo taken by placing camera on top of PSM

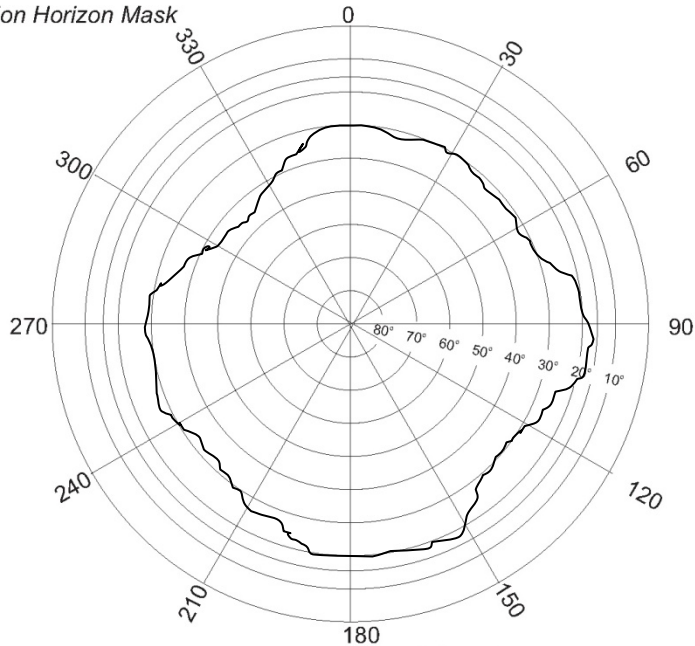


SITE INFORMATION

Station Number

P	S	M	5	1	3	6
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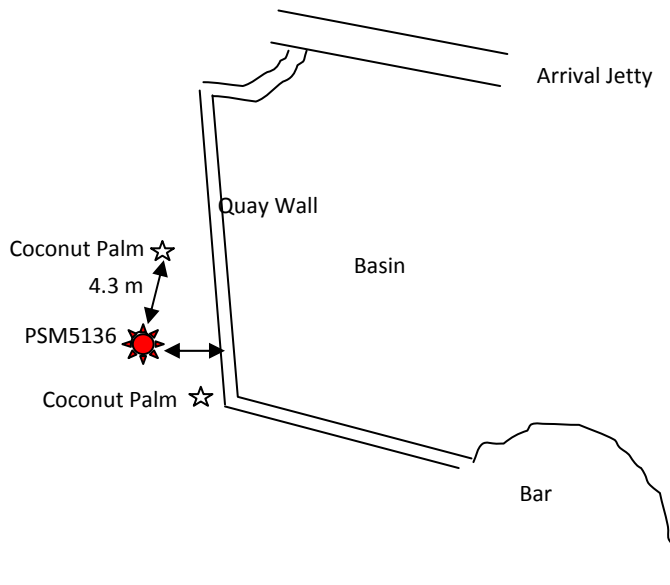
Station Horizon Mask



Height above Marker that horizon was mapped from 1.774 m

Magnetic Declination
 Declination applied to this figure?
 Yes No

Locality



Sketched by: **IhsaanWaheed**

Scale: Not to scale

Date: 13/06/2012

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CONTROL POINT DETAILS		Station Number: PSM 5137	
Coordinate Information			
Geodetic		Grid	
WGS 84		UTM Zone 43	
Lat: 4°11'59.64217"N		E: 323870.4612m	
Long: 73°24'47.29286"E		N: 464402.2090m	
Ellp Height: -90.860		Ortho Height: 0.959	

Date: 13th May 2012

Monument description & method of survey:

PSM type: PSM type A (finish level approx 150mm above ground level; additional 2ftx2ft footing provided for support)

PSM was established using Topcon HiperII DGPS system. Static survey method was used for establishing the horizontal coordinate. Three PSM was set at the site and data collect from three transect lines of the triangle. Approximately 6hrs of data for line PSM5136-5137 and 1hr data for line 5137-5138. Correction and adjustment are made using Topcon Tools software. MSL established by transferring water level (14/06/2012 17:15) and reducing to MSL using Hulhule predicted tide data set.

General site condition & access:

The PSM 5137 is located at the eastern side of the island close to the bar facility. The PSM is in line of sight to PSM 5136 close to the arrival jetty. The PSM can be accessible from the beach. Sky view is obstructed at the northern side (obstructing at 40° elevation angle), eastern side (obstructing at 45° elevation angle), south side (obstructing at 45° elevation angle) and western side (obstructing at 45° elevation angle).

Owner: Giraavaru Island Resort. The resort management takes full responsibility for safeguarding the PSM.



North



East



South



West



Photo taken by placing camera on top of PSM

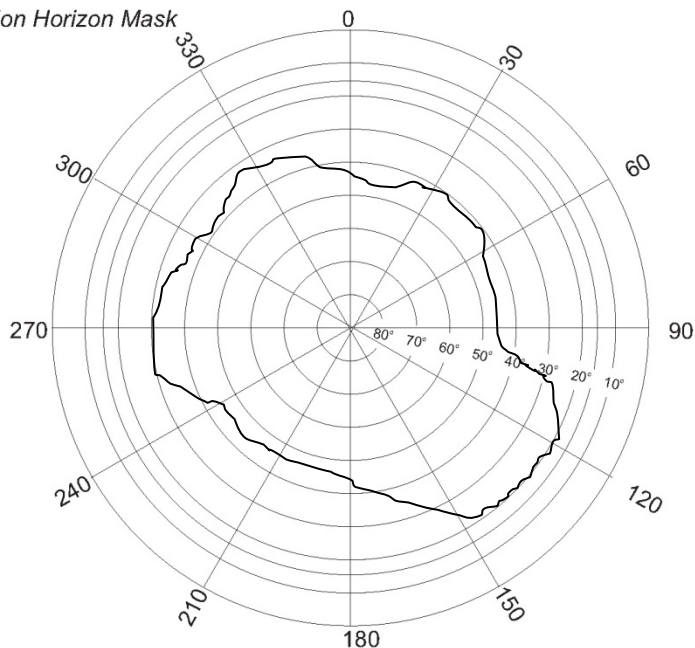


SITE INFORMATION

Station Number

P	S	M	5	1	3	7
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Station Horizon Mask

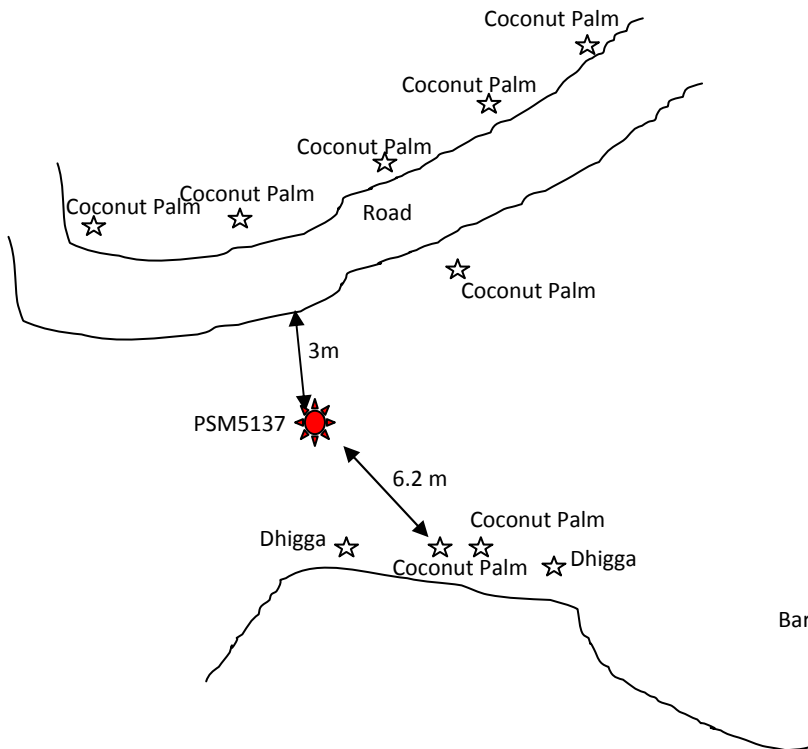


Height above Marker that horizon was mapped from 2.00m m

Magnetic Declination
 Declination applied to this figure?
 Yes No



Locality



Sketched by: IhsaanWaheed

Scale: Not to scale

Date: 13/06/2012

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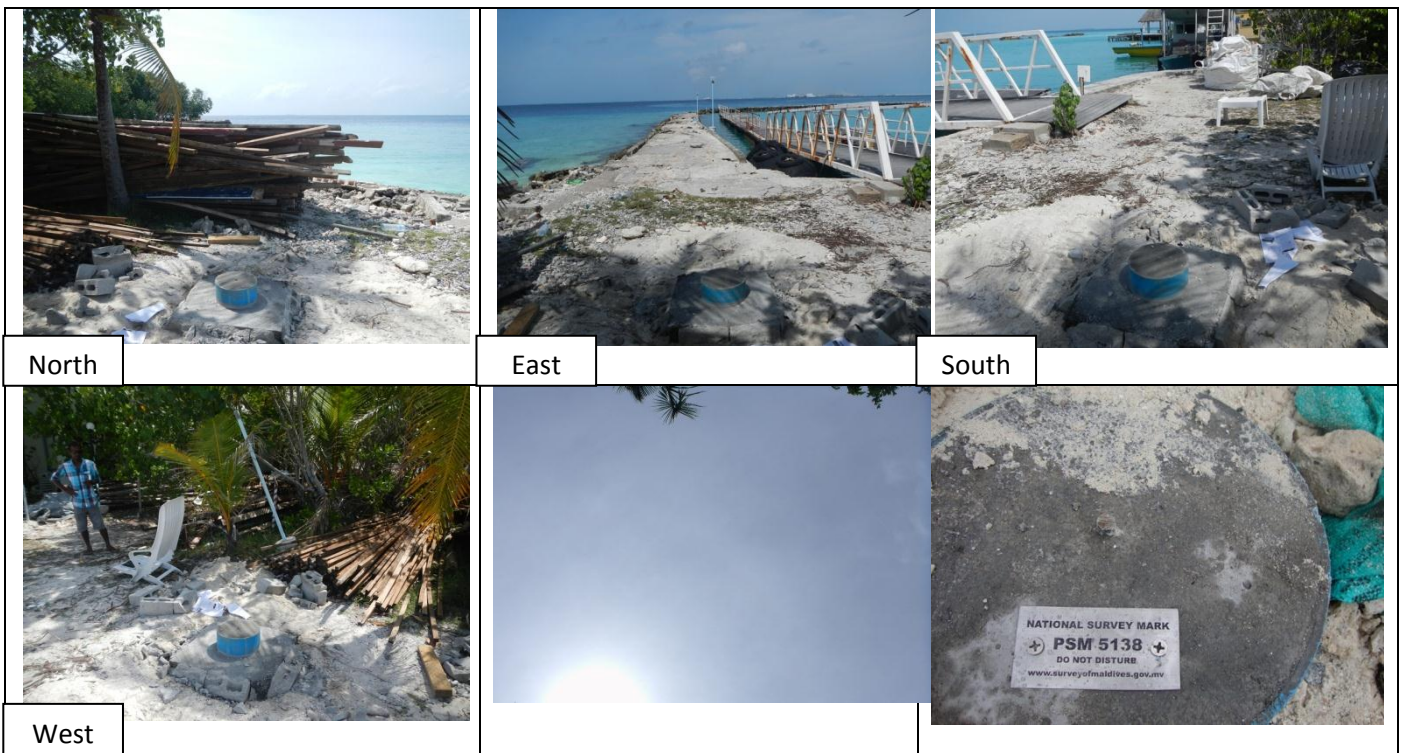
CONTROL POINT DETAILS	Station Number: PSM 5138
Coordinate Information	
Geodetic	Grid
WGS 84	UTM Zone 43
Lat: 4°12'03.01269"N	E: 323913.8074m
Long: 73°24'48.69161"E	N: 464505.6509m
Ellp Height: -90.824	Ortho Height: 1.000

Date: 13th May 2012

Monument description & method of survey:
 PSM type: PSM type A (finish level approx 150mm above ground level; additional 2ftx2ft footing provided for support)
 PSM was established using Topcon HiperII DGPS system. Static survey method was used for establishing the horizontal coordinate. Three PSM was set at the site and data collect from three transect lines of the triangle. Approximately 1hrs of data for line PSM5136-5138 and 1hr data for line 5137-5138. Correction and adjustment are made using Topcon Tools software. MSL established by transferring level from PSM5136 as par to of level run.

General site condition & access:
 The PSM 5138 is located at the eastern side of the island, close to the floating jetty at the western side of the harbor. The PSM can be accessible from the beach and harbor side walkway. Sky view is obstructed at the north west and west side (obstructing at 40° elevation angle).

Owner: Giraavaru Island Resort. The resort management takes full responsibility for safeguarding the PSM.

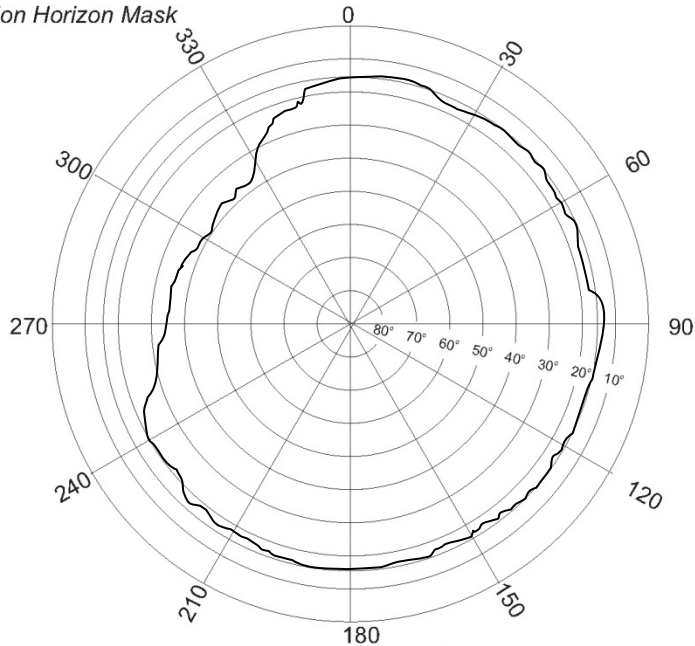


SITE INFORMATION

Station Number

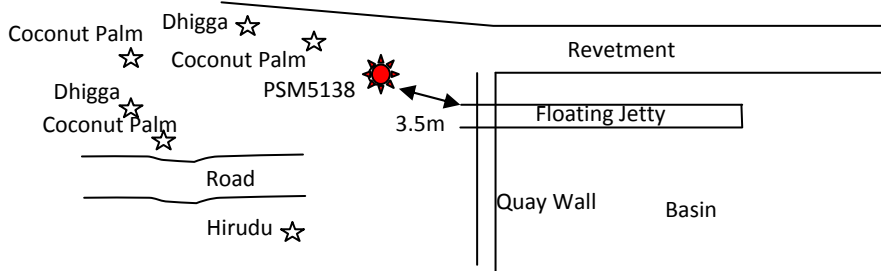
P	S	M	5	1	3	8
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Station Horizon Mask



Height above Marker that horizon was mapped from 2.00m m

Locality



Sketched by: **IhsaanWaheed**

Scale: Not to scale

Date: 13/06/2012

4.3 Daily site logs

The service period of the survey works at K. Giraavaru is from 13th June -16th June 2012.

Establishment of control points

Point From	Point To	Start Time	Stop Time	Duration
PSM5136	PSM5137	6/13/2012 8:55	6/13/2012 14:56	6:01:20
PSM5136	PSM5138	6/13/2012 15:07	6/13/2012 16:11	1:03:35
PSM5137	PSM5138	6/14/2012 14:10	6/14/2012 15:11	1:00:15

Water level transfer to PSM 5137: 14th June 2012 17:15

Mapping of tide lines and water level recording

Tide line	Date	Start Time	Stop Time
High tide line	14 th June 2012	09:40:12	11:11:39
Low tide line (assumed mean tide line)	14 th June 2012	15:38:00	16:12:45