

## 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 5010
Coordinate Information		
Geodetic	Grid	
WGS 84	UTM Zone 43	
Lat: 4°20'59.94714"N	E: 346414.3516	
Long: 73°36'57.37576"E	N: 480954.0668	
Ellp Height: -94.23	Ortho Height: 1.5318 (derived by Hulhule predicted tide)	

Date: 14<sup>th</sup> April 2012

#### Monument description & method of survey:

PSM type: PSM type A; finish level is approx 150mm above ground.

PSM was established using Topcon HiperII DGPS system. Static survey method was used for establishing the horizontal coordinate. Three PSM and a temporary Bench mark (TBM) were set at the site and data collect from six transect lines. Approximately 5:57hrs of data for PSM5010-5011, 37min for PSM5010-5012 and 59min for PSM5010-TBM. Correction and adjustment are made using Topcon Tools software. MSL established by transferring water level (01/05/2012 11:55) and reducing to MSL using Hulhule predicted tide data set.

#### General site condition & access:

The PSM 5010 is located at the reclaimed walkway leading to the harbor at the western side of the island. The PSM can be accessible from the path of the reclaimed walkway. The PSM5010 is in line of sight from PSM5011. Sky view is clear of obstruction at all directions.

**Owner:** Adaran Select Hudhuranfushi. The resort management takes full responsibility for safeguarding the PSM.

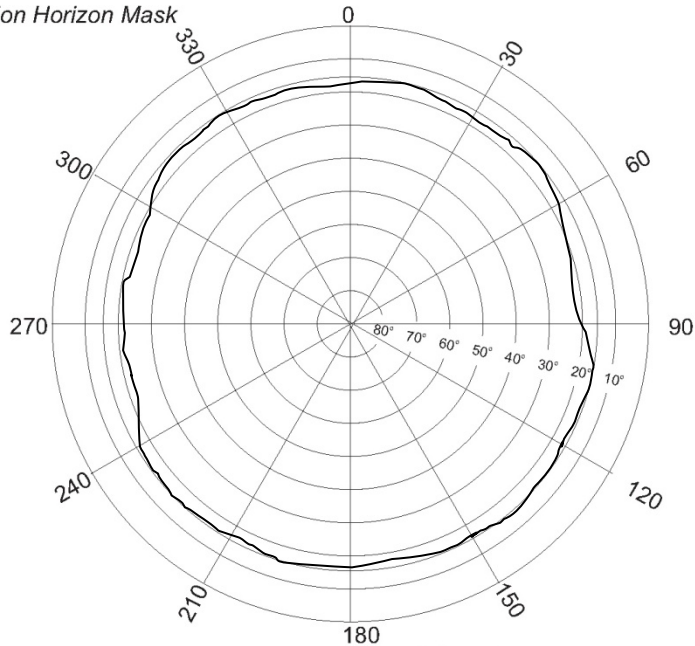


**SITE INFORMATION**

Station Number

P	S	M	5	0	1	0
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Station Horizon Mask

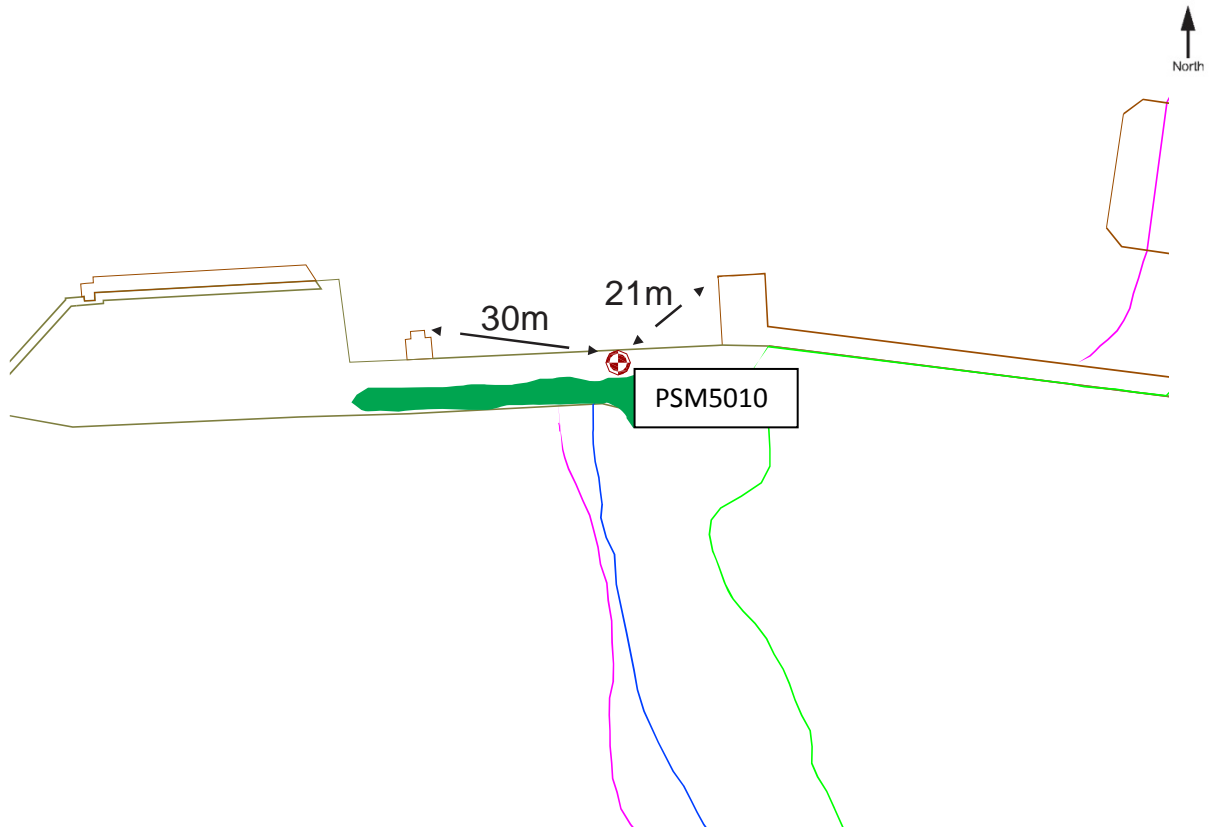
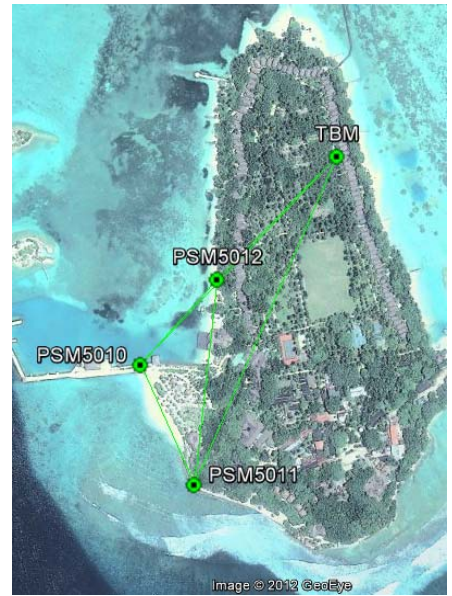


Height above Marker that horizon was mapped from 1.437 m

Magnetic Declination .....  
 Declination applied to this figure?  
 Yes  No



Locality



Sketched by: Ihsaan Waheed

Scale: Not to scale

Date: 04/14/2012

## SURVEY UNIT,

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CONTROL POINT DETAILS		Station Number: PSM 5011
Coordinate Information		
Geodetic	Grid	
WGS 84	UTM Zone 43	
Lat: 4°20'54.47343"N	E: 346478.2917m	
Long: 73°36'59.45968"E	N: 480785.8323m	
Ellp Height: -93.944	Ortho Height: 1.8356	

Date: 14<sup>th</sup> April 2012

PSM type: PSM type A; finish level is approx 150mm above ground.

PSM was established using Topcon HiperII DGPS system. Static survey method was used for establishing the horizontal coordinate. Three PSM and a temporary Bench mark (TBM) were set at the site and data collect from six transect lines. Approximately 5:57hrs of data for PSM5010-5011, 38min for PSM5011-5012 and 1hr for PSM5011-TBM. Correction and adjustment are made using Topcon Tools software. MSL of the PSM established by transferring level from PSM 5010 as part of level run.

#### General site condition & access:

The PSM 5011 is located east of PSM5010, close to the revetment structure behind the Spa facility. The PSM can be accessible from the beach and walkway leading to the Spa facility. The PSM5011 is in line of sight from PSM5010. Sky view is clear of obstructions apart from the eastern quadrant at 40<sup>o</sup> elevation angle (vegetation canopy at western side shoreline).

**Owner:** Adaran Select Hudhuranfushi. The resort management takes full responsibility for safeguarding the PSM.



North



East



South



West



Photo taken by placing camera on top of PSM

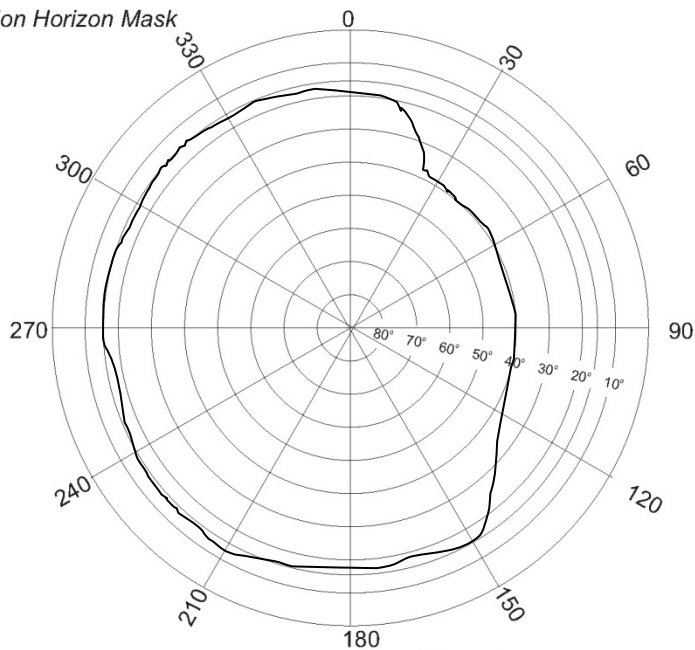


**SITE INFORMATION**

Station Number

P	S	M	5	0	1	1
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Station Horizon Mask

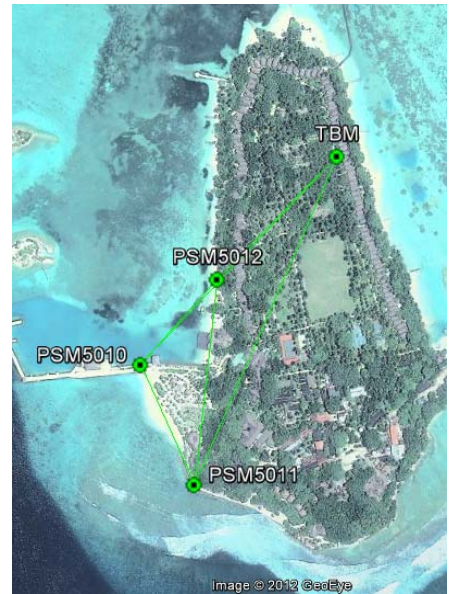


Height above Marker that horizon was mapped from 1.516 m

Magnetic Declination .....  
 Declination applied to this figure?  
 Yes  No



Locality



Sketched by: Ihsaan Waheed

Scale: Not to scale

Date: 04/14/2012

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<b>CONTROL POINT DETAILS</b>	<b>Station Number: PSM 5012</b>
<b>Coordinate Information</b>	
<b>Geodetic</b>	<b>Grid</b>
WGS 84	UTM Zone 43
Lat: 4°21'03.52201"N	E: 346528.1423m
Long: 73°37'01.06012"E	N: 481063.6553m
Ellp Height: -94.573	Ortho Height: 1.1076

Date: 14<sup>th</sup> April 2012

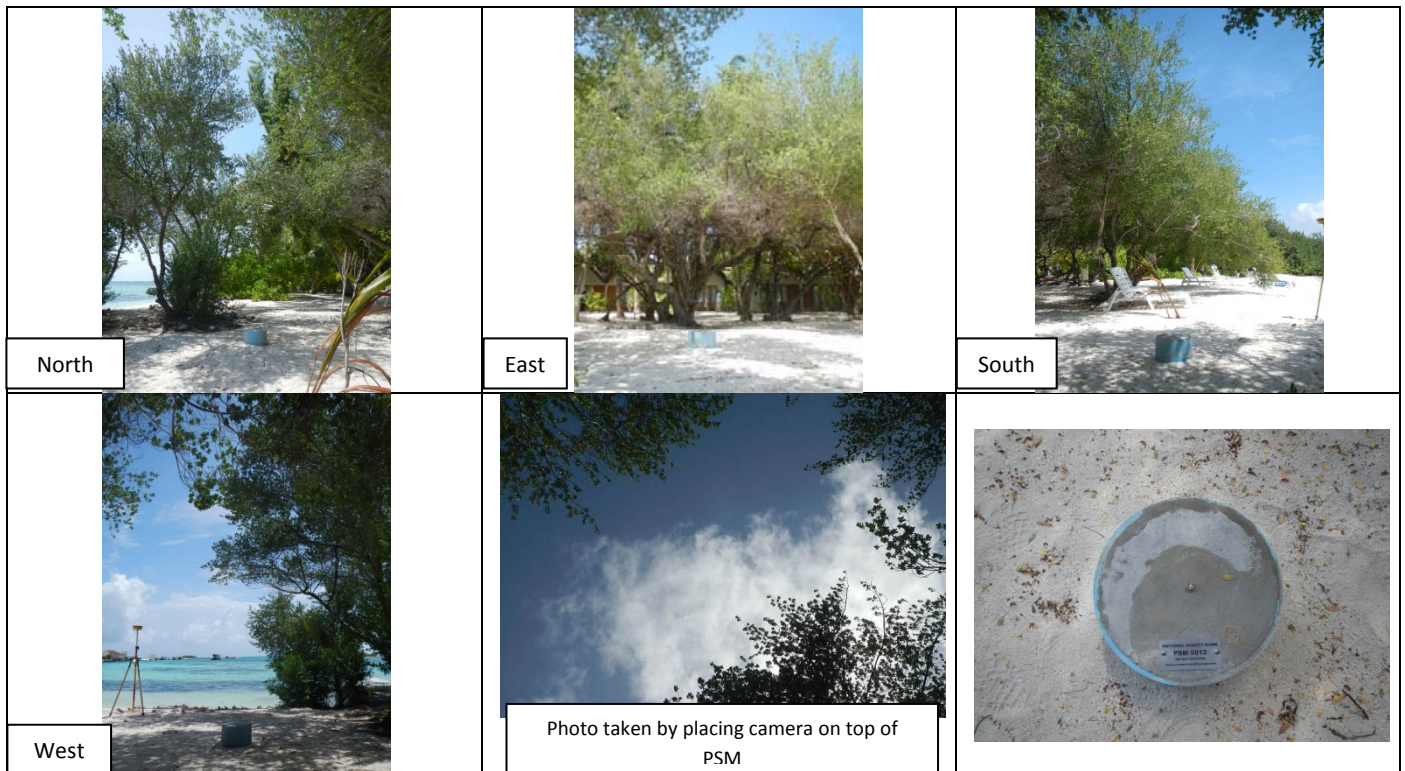
PSM type: PSM type A; finish level is approx 150mm above ground.

PSM was established using Topcon HiperII DGPS system. Static survey method was used for establishing the horizontal coordinate. Three PSM and a temporary Bench mark (TBM) were set at the site and data collect from six transect lines. Approximately 37min of data for PSM5010-5012, 38min for PSM5011-5012 and 1hr for PSM5012-TBM. Correction and adjustment are made using Topcon Tools software. MSL of the PSM established by transferring level from PSM 5011 as part of level run.

**General site condition & access:**

The PSM 5012 is located close to Beach villa 112; north of PSM 5010. The PSM can be accessible from the beach and walkway leading to the beach villas. Sky view is obstructed at northern side at 35° elevation angle, eastern side 45° elevation angle, southern side 45° elevation angle and western side 25° elevation angle.

**Owner:** Adaaran Select Hudhuranfushi. The resort management takes full responsibility for safeguarding the PSM.

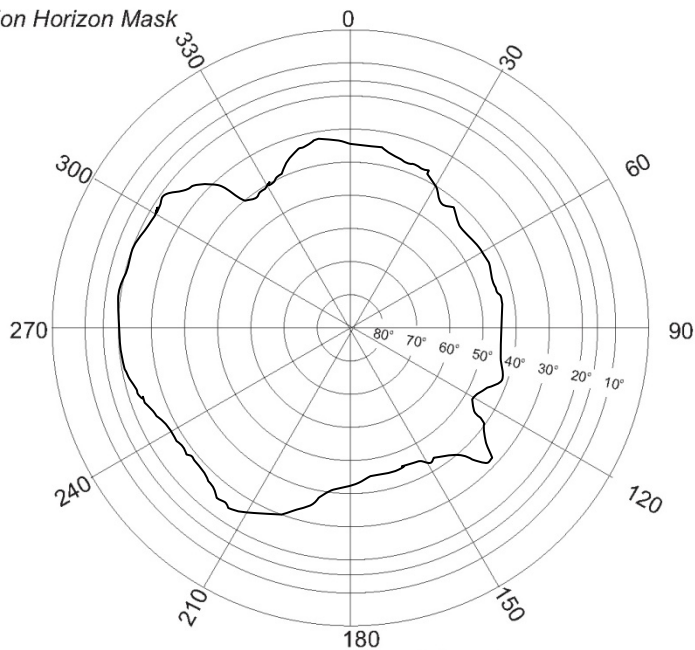


**SITE INFORMATION**

Station Number

P	S	M	5	0	1	2
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Station Horizon Mask

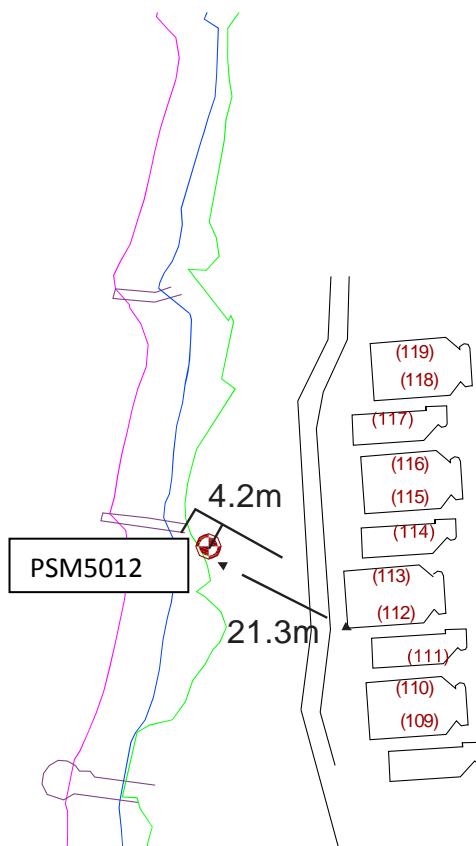
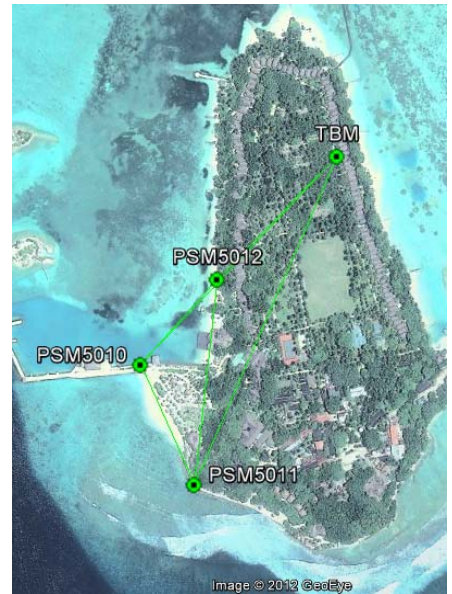


Height above Marker that horizon was mapped from 1.347 m

Magnetic Declination .....  
Declination applied to this figure?  
 Yes  No



Locality



Sketched by: Ihsaan Waheed

Scale: Not to scale

Date: 04/14/2012