Extracting of Shoreline in Baltim Beach Using Remote Sensing and Global Positioning System (Gps) Techniques

تغير خط الشاطئ لمصيف بلطيم باستخدام الصور الفضائية للقمر الصناعي الجديد ونظام الرصد العالمي الدقيق

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خلاصة

مصيف بلطيم من اهم المصايف المشهورة فى منطقة دلتا نهر النيل-مصر الكثير من هذه المواقع تحتاج الى فترات طويلة ومجهود كبير للحصول على بيانات وتحليلها لحساب التغير فى خط الشاطئ لذلك يقدم البحث طريقة تمتاز بالتكلفة والمجهود الاقل عن طريق الصور الفضائية للقمر الصناعى الجديد (2013) . تم عمل معالجة للصور وتجميع للطبقات لتحسين الرؤية باستخدام (layer stack function) ورسم خط الشاطئ عن طريق نظام المعلومات الجيوغرافية والاستشعار عن بعد تم استخدام نظام الرصد العالمى الدقيق لقياس التغير فى خط الشاطئ لمصيف بلطيم باستخدام جهازين . الجهاز الاول ثابت فى مكان معلوم الاحداثيات والجهاز الثانى متحرك على خط الشاطئ ومتصل باثنى عشر قمر صناعى على الاقل تم تجيع البيانات من المرصد الثابت والجهاز الثانى متحرك على خط الشاطئ ومتصل باثنى عشر قمر صناعى فى القياس باستخدام برنامج (Lecia Office Software) . أيضا تم عمل معالجة للحصول على دقة عالية فى القياس باستخدام برنامج (Lecia Office Software) . أيضا تم عمل معارفة بين الصور الفضائية للقمر الصناعى ونظام الرصد العالمى الدقيق الزمنية (2014) . أيضا تم عمل مقارنة بين الصور الفضائية القر الصناعى ونظام الرصد العالمى الدقيق الذمنية (2014) . أيضا تم عمل مقارنة بين الصور الفضائية القمر الصناعى ونظام الرصد العالمى الدقيق لنفس الفترة الزمنية (2014) . في خط الشاطئ ومتصل باثنى عشر قمر معاي القل فى القياس باستخدام برنامج (2014) . أيضا تم عمل مقارنة بين الصور الفضائية القمر الصناعى

ABSTRACT

Baltim beach is one of the most important public beaches fronting the central sector of the Nile Delta, Egypt. Many site and region specific shoreline change monitoring programs use labor and time intensity methodologies for data collection. The collection, compilation, and analysis of this data can take years. This study presents a low cost methodology for quantifying regional shoreline change using Landsat-8 **Operational Land Imager (OLI)** data. This paper compares multi-spectral imagery from landsat-8 with that of the **Global Positioning System (GPS)** surveying techniques when used to extract shoreline for Baltim beach. The latest in the Landsat series of satellites was launched February 11, 2013. Image processing techniques have been carried out to enhance the image resolution by the layer stack function using **ERDAS** Imagine, 2013. The best results from multispectral data were obtained using remote sensing and **Geographic Information System (GIS)** based on a combination of histogram thresholding and band ratio techniques. Kinematic **GPS** measurements are made with two GPS receivers, one of which is fixed (base station) located over a known fixed point and the other is moving on shoreline (rover). The data collected by the rover are processed and corrected after taking measurements then post-processed to achieve very high accuracy (sub meters) using **Lecia Office Software**. Using Landsat-8 OLI's imagery data analysis showed a good agreement with the global position system (GPS) surveying techniques for extraction of Baltim shoreline.

Keywords: Baltim, Landsat 8, GPS, ERDAS Imagine, GIS, Shoreline.

1. INTRODUCTION

A shoreline is defined as the line of contact between land and water. It is one of the rapidly changing linear features of the coastal zone which is dynamic in nature. The methods of shoreline extraction divided into four categories; (i) conventional ground surveying; (ii) technology; numerical modern (iii) airborne imagery; and (iv) satellite imagery. All of these methods have both advantages and disadvantages. Although ground survey is the most conventional and accurate method, it is time-consuming and is cost-effective (needs intensive labor, and restricted by the difficulty of access). Recently, remote sensing and GIS have been widely used as another option than conventional methods for monitoring shoreline position. Further, the satellite imagery has many advantages over aerial photography. For example, the satellite is operational all the time of the year and captures the image of the same area with certain frequency. Satellite image also captures larger areas with relatively high resolutions.

Many researchers use the remote sensing techniques to study the coastal changes along the Nile Delta Coast especially around Rosetta and Damietta promontory. Alesheikh et al. (2007) evaluated the accuracy of remote sensing techniques and a ground truth map for extracted the coastline of Urmia lake and Hyersaline lake using three Landsat 7 ETM+ images; three Landsat 5 TM images; three Landsat 4 TM images. EL-Banna and E. Hereher (2009) detected temporal shoreline changes and erosionaccretion rates, using remote sensing, and their associated sediment characteristics along the coast of North Sinai, Egypt. Frihy and Dewidar (2010) used the Landsat Multi-spectral Scanner (MSS) and (ETM+) digital data to monitor coastal changes along the North-eastern Nile Delta. EL-Asmar and El-Hereher (2010) investigated the change detection of the coastal zone east of the Nile Delta using a

set of four satellite images from the multispectral scanner (MSS), thematic mapper (TM) and systems Pour Observation de la Terre (SPOT). CHUANMIN el al.,(2011) presents shoreline changes in west-central Florida between 1987 and 2008 using nine Landsat Thematic (TM) images. Dewidar shoreline (2011)presented maps illustrating the shoreline erosion accretion pattern in the coastal area between Marsa-Alam and Hamata of Red Sea coastline by using different sources of remote sensing data, Landsat MSS (1972), Landsat TM (1990), Landsat ETM+ (1998, 2000) and Terra Aster (2007) satellite images were used. Tawfik (2012) used the different characteristics of the Landsat missions by USGS to detect shoreline changes around Rosetta promontory. EL-Asmar et al (2012) used images from different satellites sensors MSS, TM, SRTM from 1973 to 2003. . Mahapatra et al., (2013) investigated the shoreline changes along the South Gujarat coast using multi temporal satellite images of Landsat MSS (1972), Landsat TM (1990), Landsat ETM (2001) and IRS P6, LISS-IV (2011). Ali Niya et al.,(2013) investigated shoreline detection for Persian Gulf in Bushehr provinvce, Iran using remote sensing and Gis, The digital images used two Landsat 7 ETM+ images and one Landsat 5 TM images.

and presented the major environment hazards facing the coastal wetlands (Manzala and Burullus) of the Nile Delta.

According to Landsat website, Landsat-8 is the latest NASA satellite in a series that has produced an uninterrupted multispectral record of the Earth's land surface since 1972. Along with data acquisition and the USGS archival and distribution systems, the program includes the data processing techniques required to render the Landsat 8 data into a scientifically useful form. ERDAS Imagine software was used to perform image processing of satellite image. In addition digitizing image was applied for delineating the shoreline trend at the study area using the ArcGIS V. 10.1 Software Package.

GPS had become a standard surveying technique in most surveying practices due to its ease and precision. The techniques that are commonly used now (field data methods) are Static positioning, positions, Post-Processed Static Fast Kinematic (PPK) positioning and Real-Time Kinematic (RTK) positioning. Postprocessed kinematic (PPK) surveys are generally used for mapping or for surveying points where only several cm of precision are needed, such as mapping out a feature such as a flat scarp or a shoreline. Occupation times for survey points are on the order of seconds. Data must be postprocessed achieve high-precision to results; this requires a processing program using Lecia Office Software.

2. STUDY AREA

The study area shoreline lies between 31°40′00″N 31°30′00″N to latitudes (3492000 to 3600000) and 31°00'00"E to 31°15′00″E longitudes (318000 to 328000). Baltim beach is one of the most important public beaches fronting the central sector of the Nile Delta and is located about 11.5km east of the Burullus lagoon inlet as shown in Figure (1). Baltim resort is located on a very active convex shoreline. According to accepted coastal

sediment transport principles, concave shorelines areas of transport convergence and accrete, whereas convex shoreline segments (promontories) erode. Baltim beach remained unprotected until 1992, at which time construction of protective commenced. Off breakwaters this coastline, a total of 14 shore-parallel detached breakwaters have been constructed in four phases between 1993 and 2007. Nine breakwaters (4-7 ton dolos, 250-350m length, 220m far from the coast, 300-400m gap between each other, 3-4m water depth, and 2.5m crest level) were constructed between the years 1993-2002. Additional five breakwaters were constructed after 2003 with the same characteristics. Moreover short nine groins (75-100m length, and 250-300m apart) were constructed on the eastward up to Kitchener drain between the years 2008-2013. Landsat image is presented in Figure the fourteen showing detached (2).breakwaters and the nine short groins. Also, the dimension of detached breakwaters and groins are presented in Figure (3). Kitchener Drain excavated between 1930 and 1940, lies in the eastern limit of the study area and flows south to north. This drain 70km long and 60m width, discharges an amount of about $2 \times 10^5 \text{m}^3$ /year drainage water into the sea.



Fig.1: Location of Baltim Beach along the Nile Delta Coast



Fig. 2: Map of the study area.

3. MATERIAL AND METHODS 3.1. Tidal Data and Their Influence on Determination of Coastline

Among the cyclical variations, tides cause rapid sea level variations; therefore, it is fundamental to evaluate such effects during the image acquisitions to locate the free-surface level. Tides are due to astronomic and meteorological phenomena. In particular, the astronomic tide is due to the gravitational attraction of and moon (30%) sun and 70% respectively). It is evaluated by applying the so called harmonic method, that considers the sum of tidal components represented by sinusoidal waves seven components (four semi-diurnal and three diurnal) are enough to have an approximation of one centimeter (NATIONAL **OCEANIC** AND ATMOSPHERIC ADMINISTRATION. 1982). Since the selected images were acquired in good weather conditions (calm sea), we neglected the influence of meteorological tide. Tide conditions for our dataset were evaluated using the freeware wxtide32 program (http://www.wxtide32.com/). For the study

area, the oscillations of water level (only due to astronomic tide) range between 19 and 46cm in a semi-diurnal behavior (oscillation time of about 12 h and 25 min) characterized by two maxima and two minima that are not coincident as shown in Figure (4) and Table (1).

3.2. Dataset for Landsat Image

In order to extract shoreline along Baltim area, 11-band landsat-8, OLI imagery used in this study were downloaded from the U.S. Geological Survey (USGS). Satellite data were acquired at no cost from the USGS on-line open resources

(http://usgs.gov/EarthExplorer).

3.3. Landsat Spectral Band Information

Landsat images are composed of 11 different bands, each representing a different portion of the electromagnetic spectrum. Landsat-8 OLI sensor includes a new coastal-aerosol band (band1), which can be used with two other bands for closer investigations of coastal waters and estimating the concentration of aerosols in the atmosphere. In order to work with Landsat bands, we discuss the specifications of each band, figure (5).



Fig. 3: Dimensions and cross section of detached breakwaters and groins.





Table 1	1:	Minimum	and	maximum	values	of tide	for	Baltim a	area.
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Date	Time	Height	State
2014-03-23	1:46 AM	0.40 meters	High tide
2014-03-23	7:51 AM	0.28 meters	Low tide
2014-03-23	2:07 PM	0.42 meters	High Tide
2014-03-23	9:36 PM	0.27meters	Low tide
2014-03-24	3:22 AM	0.36meters	High tide
2014-03-24	9:59 AM	0.30meters	Low tide
2014-03-24	4:12 PM	0.40meters	High tide
2014-03-24	11:43 PM	0.26meters	Low tide
2014-03-25	6:51 AM	0.38meters	High tide
2014-03-25	12:10 PM	0.29meters	Low tide
2014-03-25	6:47 PM	0.42meters	High tide
2014-03-26	1:07 AM	0.23meters	Low tide
2014-03-26	7:47 AM	0.43meters	High tide
2014-03-26	1:25 PM	0.25meters	Low tide
2014-03-26	7:47 PM	0.46meters	High tide
2014-03-27	2:00 AM	0.19meters	Low tide

3.4. Common Landsat Band Combinations

Individual bands can be composited in a Red, Green, and Blue (RGB) combination in order to visualize the data in color. The registered imageries were opened in ARC GIS 10.1 environment with a band combination of 3:2:1 (RGB) for displaying best contrast between landwater boundary in the satellite image and shoreline was identified thus and demarcated. Displayed below are some common band combinations in RGB Landsat 8, as shown in figure(6).

3.5. Geometric Corrections

The image data were geometrically corrected according to the Universal Transverse Mercator (UTM) map projection system; zone 36 north, using 25 ground control points (GCPs) that were selected at well-known features using a Geographic Information System (GIS).

3.6. Image Processing and shoreline extraction

Image processing was performed using ERDAS Imagine, 2013. The layer stack function is useful for placing layers one on top of the other. It is especially useful now that Landsat satellite data are being released in full-scene, one-layer-perimage files. Also, Landsat 8 files often come in one-band-per-image files, and this procedure will work as well, but Landsat 8 band 6 (thermal) typically has 60-meter resolution, and the panchromatic band typically has 15-meter resolution, while the other bands have 30-meter resolution. If the panchromatic band is stacked into the output file, bands 1 through 7 will be resampled to 15-meter pixel size, and some spectral definition will be lost. The file size more than quadrupled is shown in figure (7). For Landsat 8 data, layer stack bands 1through 5 and band 7. The panchromatic band and band 6 are kept as separate files. The defined shoreline perimeter of the coast was digitized on screen from the satellite images in geographic information system using ARCGIS software version 10.1. Figure (8)

illustrates the work flow of the entire system of shoreline analysis based on satellite images

4. SURVEYING WITH GPS

Advantages of GPS surveys are Three Dimensional, Site Indivisibility Not Needed, Weather Independent, Day or Night Operation, Common Reference System, Rapid Data Processing with Quality Control High Precision, and Very Few Skilled Personnel Needed. The techniques that are commonly used now (field data methods):

Static Positioning: Static positioning typically uses a network or multiple baseline approach for positioning. It may consist of multiple receivers, multiple baselines, multiple observational redundancies and multiple sessions. A least squares adjustment of the observations is required. This method provides the highest accuracy achievable and requires the longest observation times.

Fast-Static Positioning: This method requires shorter occupation times (i.e. 5 to 20+ minutes) than static positioning and may use a radial baseline technique, network technique, or a combination of the two. Fast static requires a least squares adjustment or use of processing software capable of producing a weighted mean average of the observations.

Post-Processed Kinematic (PPK) Positioning: Post processed kinematic survey methods provide the surveyor with a technique for high production Cadastral Measurements and can be used in areas with minimal obstructions of the satellites. PPK uses significantly reduced observation times compared to static or fast-static observations. This method requires a least

observations. This method requires a least squares adjustment or other multiple baseline statistical analysis capable of producing a weighted mean average of the observations.

Real-time Kinematic (RTK) Positioning: Real-time kinematic positioning is similar to a PPK or a total station radial survey. RTK does not require post-processing of the data to obtain a position solution. This allows for real-time surveying in the field. This method allows the surveyor to make corner moves (stake out) similar to total station data collector methods.

Table 2: Acquired data, sensor type and spatial resolution of Landsat sensors data used in this study.

Satellite	Sensor	Sce Path/	ne ′row	Date	S	patial resolution (meters)	
Landsat 8	Landsat 8 Oli/TiRs 177/		/38	23-3-2014	23-3-2014 30m		
Bathymetric m vegetation, decid	d 1 (0.43-0.45μn apping; distinguis uous from conifer	ı) hes soil from ous vegetation.	Emphasizes	Band 2 (0.45-0.51µm) peak vegetation, which is u assessing plant vigor.	iseful for	Band 3 (0.53-0.59μm) Emphasizes biomass content and shorelines.	
Ba Empha	πd 4 (0.64-0.67μm sizes vegetation ty	ı) ypes.	Discrimin vegetz	Band 5 (0.85-0.88μm) ates moisture content of so ation; penetrates thin cloud	Band 6 (1.57-1.65µm) Useful for thermal mapping and estimated soil moisture		
Ba Useful for mapp associate	πd 7 (2.11-2.29μn ing hydrothermall ed with mineral de	ı) y altered rocks posits.	A panchro infrared "sharpe	Band 8 (0.50-0.68µm) matic band (visible throug) with 15-meter resolution ning" of multispectral image	h near for ges.	Band 9 (1.36-1.38μm) it's designed especially for cirrus clouds	
Banc Is in the thermal Instead of meas	10 (10.6-11.19 μ infrared, or TIR – puring the tempera	m) they see heat. ture of the air	B Is in the therr Instead of m	Band 11 (11.5-12.51μm) mal infrared, or TIR – they measuring the temperature of	see heat. f the air		

Fig. 5: Landsat Spectral Band for Landsat 8.



Fig. 6: Band combination for Landsat 8.



Fig. 7: Landsat image for Baltim beach after Layer stack.



Fig. 8: Diagram of the present study workflow.

Today, Real Time Kinematic (RTK) and Post-Processed Kinematic (PPK) techniques are widely used for the measurement of details on the shore line. So, the measurements in this study obtained by post-processed Kinematic. (PPK). PPK surveys require data from at least two receivers: a 'base' (reference) receiver and a 'rover' (moving) receiver. **Reference**, the base GPS antenna can be set up over an existing mark or a newly established mark, or, if no repeat surveying will be needed, placed directly on the ground. Correspondingly, the antenna mount used (if any) will depend on project needs. For a repeatable survey, you will need a way to center and level the antenna over your mark. If you are establishing a base marker for the first time, plan to collect at least an hour's worth of data. While other (rover) GPS units are moved from station to station according to a sketch for Baltim beach to determine the occupied points as shown in Figure (9). All baselines are produced from the GPS unit occupying a reference station to the rover units as shown in Figure (10).



Fig. 9: A reference station, rover (moving point) and sketch for occupied points.



Fig. 10: Baseline between reference point and rover points.

5. RESULTS AND DISCUSSIONS

Shoreline is one of the important dynamic coastal features where the land, air and sea meet. In any open coast, when manmade structures such as breakwaters the littoral interfere with currents, shoreline changes drastically. Using ArcGis v 10.1, a shape file constructed to obtain the coordinates and represent the shape of erosion and acceleration for baltim beach is shown in figure (11). This Figure shows that after the following construction of fourteen detached breakwaters, accretion has become the dominat process with the formation of rapid tombolos on the leeward side of theses structures. This accretion has filled the down area between the shoreline and the breakwaters. The plan form of the formed tombolo indicates that these accretionary features have been developed from the prevailing longshore current to the east. Also, the construction of these detached breakwaters with the different characteristics of length, width, spacing angle between them. of detached breakwaters and spacing between the coastline lead to stable pocket beaches, good protection, poor water quality, poor aesthetic appearance, unsafe for swimmers and lee side erosion. In other words, the

bulge formation of the tombolo has eventually transformed the breakwater system to act as a shore-parallel seawall. For the lee side erosion in this region, the nine short groins built downcoast of the fourteen detached breakwaters system particularly east of the kitchener drain stabilize the 5km shoreline sector. But, Landsat images shows the local erosion behind the kitchener drain. The downcoast erosion east of the kitchener drain was resulted from the interruption of the unidirectional easterly sediment transport by the breakwater system and their associated tombolo formations, thus increasing sand starvation of downcoast beaches of this region.

Correction of collected data using Lecia Geo Office 5.0 let us achieve high precision of 1cm±1ppm. This correction is possible because the base station is located over a stationary point with known coordinates and any deviations from this position can be considered noise and can be removed. The difference in coordinates between the base station may then be analyzed together with data from the rover to obtain an accurate positioning of the rover relative to the base station. Figures (12 a,b) show the time of measurement for reference and rover points for each occupied points which all manually occupied points are 40 and the quality of points for height and position reaches about ±0.01m.



Fig. 11: Shape file of Baltim beach.

Point Id	Point Cl	Start	Enc	12:00)	13:00		14:	00	15:00
MAIN	Reference	03/23/2014 11:27:12	03/23/2014 -							1
-	-	03/23/2014 11:59:36	03/23/2014						/	
START	wiedsured	03/23/2014 12:03:45	03/23/2014	Z				Refere	nće	point
START	Measured	03/23/2014 12:04:10	03/23/2014	1 16	í,					point
-	-	03/23/2014 12:04:16	03/23/2014	6	,					
-	-	03/23/2014 12:05:02	03/23/2014	1						
- 🗆	-	03/23/2014 12:05:43	03/23/2014		2					
- (1	Measured	03/23/2014 12:06:04	03/23/2014		2					
-	-	03/23/2014 12:07:48	03/23/2014		7					
S2	Measured	03/23/2014 12:12:39	03/23/2014		6					
-		03/23/2014 12:12:44	03/23/2014		ing ,					
S3	Measured	03/23/2014 12:16:34	03/23/2014		2					
54	- Measured	03/23/2014 12:10:38	03/23/2014		7	Deview				
-	-	03/23/2014 12:20:35	03/23/2014		7	Rover				
S5	Measured	03/23/2014 12:25:21	03/23/2014		9/					
-	-	03/23/2014 12:25:25	03/23/2014		ka j					
S6	Measured	03/23/2014 12:33:44	03/23/2014		2					
	Mancurad	03/23/2014 12:33:47	03/23/2014		1					
-	-	03/23/2014 12:30:27	03/23/2014			6				
S8	Measured	03/23/2014 12:44:11	03/23/2014			6, 1				
-	-	03/23/2014 12:44:44	03/23/2014			1 9				
S9	Measured	03/23/2014 12:49:30	03/23/2014			2				
-		03/23/2014 12:49:34	03/23/2014			2				
- 510	ivieasured	03/23/2014 12:52:42	03/23/2014			6				
S11	Measured	03/23/2014 12:56:48	03/23/2014			6:				
-	-	03/23/2014 12:56:50	03/23/2014			ísi,				
S12	Measured	03/23/2014 13:00:05	03/23/2014			۶				
-		03/23/2014 13:00:07	03/23/2014			7				
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Point Id START S1 S2 S3	Point Class Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:07:40 03/23/2014 12:12:39 03/23/2014 12:16:34	Easting / 318352.8174 318420.4825 318693.6331 319001.7764	Northing 3497879.0209 3497876.7081 3497910.6977 3497873.7188	Ellip. Hgt. Or 21.9895 21.7738 21.8597 21.8238	rtho. Hgt. Geoir - - -	d Sep.	Posn. Qity 0.0039 0.0052 0.0086 0.0046	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074	Posn. + Hgt. Qity 0.0083 0.0107 0.0169 0.0087
Point Id START S1 S2 S3 S3 S4	Point Class Measured Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:07:40 03/23/2014 12:12:39 03/23/2014 12:16:34 03/23/2014 12:20:59	Easting / 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254	Northing 3497879.0209 3497876.7081 3497910.6977 3497873.7188 3497834.4791	Ellip. Hgt. Or 21.9895 21.7738 21.8597 21.8238 21.8727	rtho. Hgt. Geoie - - - - -	d Sep.	Posn. Qlty 0.0039 0.0052 0.0086 0.0046 0.0073	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074 0.0111	Posn. + Hgt. Qlty 0.0083 0.0107 0.0169 0.0087 0.0133
Point Id START S1 S2 S3 S4 S5	Point Class Measured Measured Measured Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:07:40 03/23/2014 12:12:39 03/23/2014 12:16:34 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 00 00 00 00 00 00 00 00 00 00 00 00 00	Easting / 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254 319551.5971	Northing 3497879.0209 3497876.7081 3497910.6977 3497873.7188 3497834.4791 3497825.5510	Ellip. Hgt. Or 21.9895 21.7738 21.8597 21.8238 21.8727 22.1469	rtho. Hgt. Geoir - - - - - - -	d Sep. - - - - -	Posn. Qlty 0.0039 0.0052 0.0086 0.0046 0.0073 0.0078	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074 0.0111 0.0113	Posn. + Hgt. Qity 0.0083 0.0107 0.0169 0.0087 0.0133 0.0137
Point Id START S1 S2 S3 S4 S5 S5 S7 S7	Point Class Measured Measured Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:07:40 03/23/2014 12:16:34 03/23/2014 12:20:59 03/23/2014 12:20:59 03/23/2014 12:25:21 03/23/2014 12:25:21 03/23/2014 12:25:21	Easting / 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254 319551.5971 319876.9708	Northing 3497879.0209 3497876.7081 3497870.6977 3497873.7188 3497834.4791 3497835.5510 3497837.0364	Ellip. Hgt. Or 21.9895 21.7738 21.8597 21.8238 21.8727 22.1469 21.8015	rtho. Hgt. Geoid - - - - - - -	d Sep. - - - - - - -	Posn. Qity 0.0039 0.0052 0.0086 0.0046 0.0073 0.0078 0.0252	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074 0.0111 0.0113 0.0292	Posn. + Hgt. Qity 0.0083 0.0107 0.0169 0.0087 0.0133 0.0137 0.0386
Point Id V START V S1 V S2 V S3 V S4 V S5 V S5 V S5 V S5 V S5 V S6 V S6	Point Class Measured Measured Measured Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:04:0 03/23/2014 12:07:40 03/23/2014 12:12:99 03/23/2014 12:16:34 03/23/2014 12:20:21 03/23/2014 12:20:21 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/2014 04/201	Easting / 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254 319551.5971 319876.9708 319877.9391	Northing 3497879.0209 3497876.7081 3497910.6977 3497873.7188 3497834.4791 3497825.5510 3497837.0364 3497838.6688	Ellip. Hgt. Or 21.9895 21.7738 21.8597 21.8238 21.8727 22.1469 21.8015 21.8102 21.862	rtho. Hgt. Geoie - - - - - - - - - - - -	d Sep. - - - - - - - - - - - - - - - - - - -	Posn. Qlty 0.0039 0.0052 0.0086 0.0046 0.0073 0.0078 0.0252 0.0152 0.0152	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074 0.0111 0.0113 0.0292 0.0174	Posn. + Hgt. Qity 0,0083 0,0107 0,0169 0,0087 0,0133 0,0137 0,0386 0,0231 0,0281
Point Id V START V S1 V S2 V S3 V S4 V S5 V S5	Point Class Measured Measured Measured Measured Measured Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:04:00 03/23/2014 12:05:40 03/23/2014 12:12:09 03/23/2014 12:20:21 03/23/2014 12:20:21 03/23/2014 12:36:27 03/23/2014 12:36:41 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 12:34:44 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 03/23/2014 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 00/24 0	Easting / 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254 319551.5971 319876.9708 319877.9391 32050.5052 30553.2952	Northing 3497879.0209 3497876.7081 3497910.6977 3497873.7188 3497834.4791 3497825.5510 3497837.0364 3497838.6688 3497759.5428	Ellip, Hgt. Or 21.9895 21.7738 21.8597 21.8238 21.8727 22.1469 21.8015 21.8102 21.7683 21.7683	rtho. Hgt. Geoir - - - - - - - - - - -	d Sep. - - - - - - - - - - - - - - - - - - -	Posn. Qlty 0.0039 0.0052 0.0086 0.0046 0.0073 0.0078 0.0252 0.0152 0.0152 0.0037 0.0127	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074 0.0111 0.0113 0.0292 0.0174 0.0045 0.0045	Posn. + Hgt. Qlty 0.0083 0.0107 0.0169 0.0087 0.0133 0.0137 0.0386 0.0231 0.0058 0.0202
Point Id V START V S1 V S2 V S3 V S4 V S5 V S5 V S5 V S5 V S8 V S9 V S10	Point Class Measured Measured Measured Measured Measured Measured Measured Measured	Date/Time 03/22/2014 12:04:10 03/22/2014 12:07:40 03/22/2014 12:12:39 03/22/2014 12:12:39 03/22/2014 12:25:21 03/22/2014 12:25:21 03/22/2014 12:33:44 03/22/2014 12:34:44:11 03/22/2014 12:52:42	Easting / 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254 319575.9971 319876.9708 319877.9391 320305.0562 320543.2952 320741.6706	Northing 3497879,0209 3497876,7081 3497876,7081 3497873,7188 3497834,4791 3497825,5510 3497837,0364 3497838,6688 3497759,5428 3497736,4907 3497736,4907	Ellip, Hgt. Or 21.9895 21.7738 21.8597 21.8238 21.8727 22.1469 21.8015 21.8102 21.7683 21.7683 21.7690 21.8348	rtho. Hgt. Geoid - - - - - - - - - - - - - - - - -	d Sep. - - - - - - - - - - - - - - - - - - -	Posn. QHy 0.0039 0.0052 0.0086 0.0046 0.0073 0.0078 0.0252 0.0152 0.0037 0.0127 0.0076	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074 0.0111 0.0113 0.0292 0.0174 0.0157 0.0096	Posn. + Hgt. Qity 0.0083 0.0107 0.0169 0.0087 0.0133 0.0137 0.0386 0.0231 0.0058 0.0202 0.0122
Point Id V START V S1 V S2 V S3 V S4 V S5 V S5 V S5 V S5 V S8 V S9 V S10 V S11	Point Class Measured Measured Measured Measured Measured Measured Measured Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:07:40 03/23/2014 12:16:34 03/23/2014 12:16:34 03/23/2014 12:16:34 03/23/2014 12:26:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:37 03/23/2014 12:36:34 03/23/2014 12:36:37 03/23/2014 12:36:34 03/23/2014 12:36:34 03/23/2014 12:36:34 03/23/2014 12:36:34 03/23/2014 12:36:34	Easting // 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254 319551.5971 319876.9708 319877.9391 320305.0562 320543.2952 320741.6706 320948.5397	Northing 3497879.0209 3497876.7081 3497910.6977 349783.7188 3497834.4791 3497837.0364 3497833.6688 3497759.5428 3497736.4807 3497715.1101 3497710.0762	Ellip, Hgt. Or 21.9895 21.7738 21.8597 21.8238 21.8727 22.1469 21.8015 21.8102 21.7683 21.7690 21.8348 21.8701	rtho. Hgt. Geoir - - - - - - - - - - - - - - - - - - -	d Sep. - - - - - - - - - - - - - - - - - - -	Posn. QHy 0.0039 0.0052 0.0086 0.0046 0.0073 0.0073 0.0078 0.0252 0.0152 0.0037 0.0127 0.0127 0.0076 0.0071	Hgt. Qlty/ 0.0073 0.0094 0.0146 0.0074 0.0111 0.0113 0.0212 0.0174 0.0045 0.00157 0.0096 0.0092	Posn. + Hgt. Qlty/ 0.0083 0.0017 0.0169 0.0087 0.0133 0.0137 0.0386 0.0231 0.0058 0.0222 0.0122 0.0122
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Point Id V START V S1 V S2 V S3 V S3 V S5 V S5 V S5 V S5 V S8 V S9 V S1 V S1	Point Class Measured Measured Measured Measured Measured Measured Measured Measured Measured Measured Measured Measured Measured	Date/Time 03/23/2014 12:04:10 03/23/2014 12:07:40 03/23/2014 12:07:40 03/23/2014 12:16:34 03/23/2014 12:26:27 03/23/2014 12:25:42 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:36:27 03/23/2014 12:46:30 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:27 03/23/2014 12:56:	Easting / 318352.8174 318420.4825 318693.6331 319001.7764 319251.9254 319877.9391 320305.0552 320543.2952 320543.2952 320741.6706 320948.5397 321143.6657 321412.9745	Northing 3497879.0209 3497876.7081 3497910.6977 3497873.7188 349783.7188 349783.7054 349783.7054 349783.70542 3497735.528 3497736.4907 3497715.5101 3497710.0762 3497632.6407	Ellip. Hgt. 0r 21,9895 21,7738 21,8297 21,8238 21,8727 22,1469 21,8015 21,8102 21,7683 21,7690 21,8348 21,8701 21,7577 21,7193 21,7193	rtho. Hgt. Geoic - - - - - - - - - - - - - - - - - - -	d Sep. - - - - - - - - - - - - - - - - - - -	Posn. Qlty 0.0039 0.0052 0.0086 0.0046 0.0046 0.0073 0.0078 0.0252 0.0152 0.0037 0.0127 0.0076 0.0076 0.0076 0.0076 0.0076	Hgt. Qlty 0.0073 0.0094 0.0146 0.0074 0.0111 0.0113 0.0292 0.0174 0.0155 0.0095 0.0095 0.0176	Posn Hgt_Qlby 0.0083 0.0107 0.0159 0.0087 0.0133 0.0137 0.0386 0.0231 0.0038 0.0231 0.00202 0.0122 0.0122 0.0122 0.0122
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Fig. 12(b): The quality of points.

Figure (13) shows the sample of resulted geographic coordinates after processing for moving points. The total moving points are 13722. After data processing, data is transferred to global mapper to reshape the shoreline and convert to ArcGIS in order to apply this line in Landsat image. The accuracy of the two methods is then tested (presented shape file resulted from Landsat 8 techniques with the lines resulted from GPS surveying). It is found that an apparent decrease in the difference of the polylines with error 8% between two method as shown in figure (14). Also,

figure (15) display Landsat image technique and Global position system (GPS) surveying on layer stacking image.

6. CONCLUSIONS

This paper compares between two methods of shoreline extraction for baltim beach. The first method is Landsat-8 imagary. The second method is conventional ground surveying using Global Position System (GPS) surveying. For Landsat image obtained by the U.S. Geological Survey (USGS) in 23-3-2014. Also, This Landsat image has been

processed using ERDAS Imagine software, 2013 by using a Layer Stack Function which is useful for placing layers one on top of the other to get a best resolution. In addition image digitizing was applied for the shoreline trend at the baltim beach using ArcGIS V. 10.1 Software Package. The Results show the formation of tombolos and salient in the leeward side of these structures. This accretion has filled the down area between the shoreline and some breakwaters which transformed the breakwater system to act as a shoreparallel seawall and make this region unsafe for swimmers. For Global Position System (GPS) surveying, GPS has become a standard surveying technique in most surveying practices has Advantages are Three Dimensional, Day or Night Operation, Common Reference System,

Rapid Data Processing with Quality Control High Precision. The most commonly used GPS data collection technique is used here ,Post-Processed Kinematic (PPK) Positioning. PPK surveys require data from at least two receivers (reference – rover). 40 points are manually occupied using GPS with position quality of about sub meters. The data collected by the rover was post processed using a processing program, Leica Geo Office 5.0. processing After the geographic coordinates for moving points were 13722 for Baltim beach. To test the accuracy of two methods, present shape file resulted from landsat 8 techniques with the lines results from Global position system (GPS) surveying. It is found that an apparent decrease in the difference of the polylines between two method about 8m.



Fig. 13: Sample of data in Leica Geo Office and ArcGIS.



Fig. 14: Difference between Landsat image technique and Global position system (GPS) surveying.



Fig. 15: Landsat image technique and Global position system (GPS) surveying on layer stacking image.

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