

Boston Harbor Islands National Recreation Area (BOHA)

Table C7. Summary of Findings for BOHA.

Exposure level	# of assets	% of assets	CRV	% of total CRV
High Exposure	54	38%	\$55,498,822	46%
Limited Exposure	89	62%	\$66,264,619	54%
TOTALS	143	100%	\$121,763,441	100%

Park visit

October 2012

Park contacts

Marc Albert

Primary data utilized

- 1) NPS FMSS location hierarchy report
- 2) 2002 Boston Area LiDAR
- 3) 2011 Northeast USGS LiDAR

Process/methods for exposure determination

Combination of several methods including park visit to multiple islands, discussion with park staff, analysis of asset locations and elevations using LiDAR. Note that FMSS data for park was incomplete and many assets were not listed. After park visit and discussion with park staff several other assets were added to the list (see end of asset list). Because of the incompleteness and inconsistency in the data within in FMSS, as well as the complicated nature of asset ownership in the park, many of the islands did not have any actual assets listed, but instead the island itself was the only entry. Therefore, it should be noted that these lists do not fully represent the exposure of the assets within BOHA.

BOHA Documents

Map of high exposure assets & GIS data

High exposure assets*

*Assets sorted by values for:

- 1) Optimizer Band (low to high)
- 2) API (high to low)
- 3) FCI (low to high)

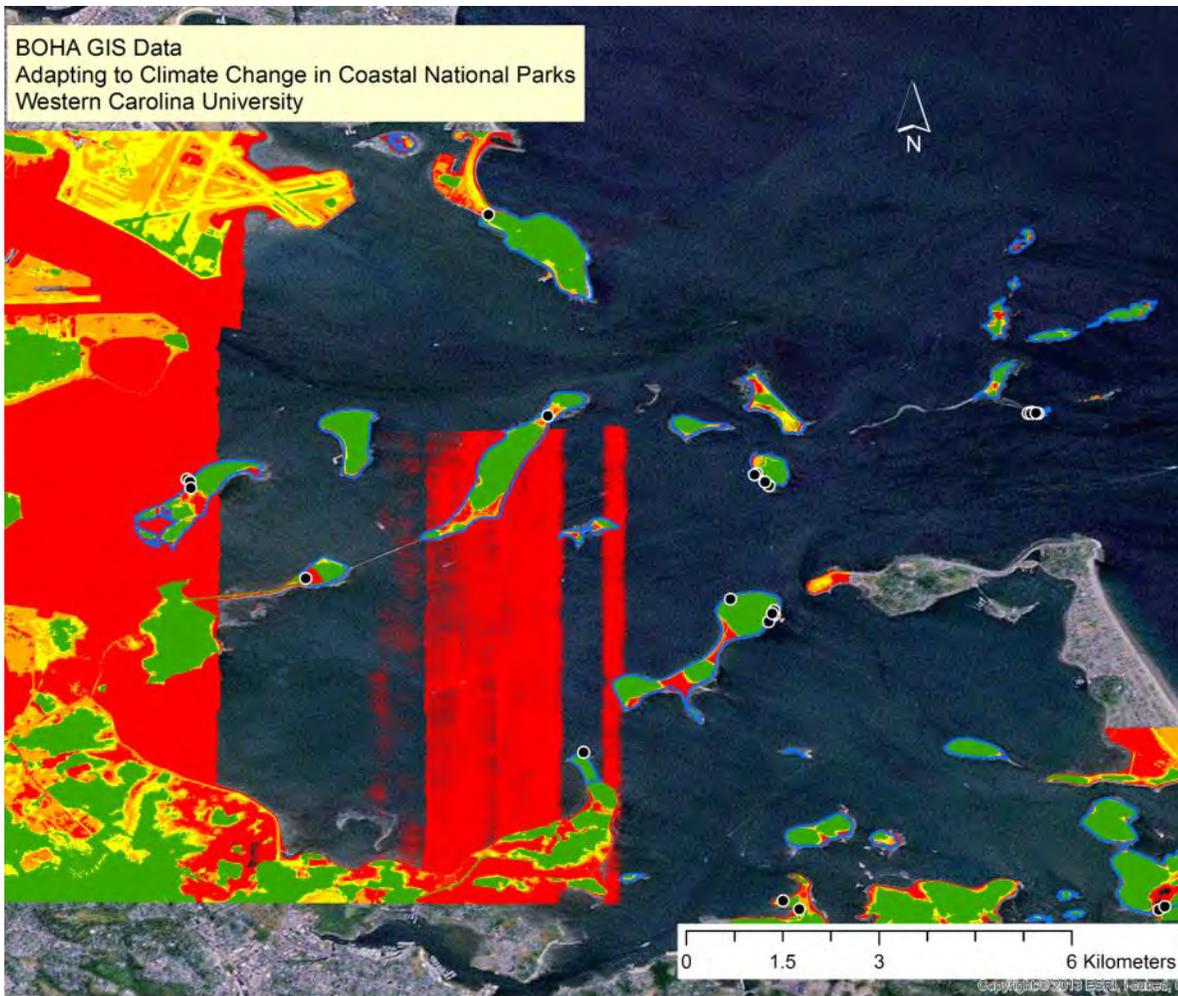


Figure C4. BOHA GIS Map of park boundary and high-exposure assets. NOAA tides and currents website was used to calculate MHHW (1.45 m above NAVD88), for BOHA used Boston, MA station: <http://tidesandcurrents.noaa.gov/datums.html?id=8443970>.

Table C8. Complete list of GIS Data utilized for BOHA.

Data Name	Data Source
2002 Boston Area LiDAR	Office of Geographic Information (MassGIS): http://www.mass.gov/anf/research-and-tech/it-serv-and-support/application-serv/office-of-geographic-information-massgis/
2011 Lidar for the North East	NOAA: http://www.csc.noaa.gov/dataviewer/#

Table C9. BOHA High Exposure Asset List.

ID	Asset Code	Location Code (Description)	CRV	Optimiz Band	API	FCI
1	4100	76380 (Ft. Warren: Administration/Mine Storage Building)	\$9,454,002	1	100	0
2	7300	82271 (Ft. Warren: Bastion B)	\$112,620	1	100	0
3	7300	82272 (Ft. Warren: Bastion C)	\$135,097	1	100	0
4	7300	82277 (Ft. Warren: Battery Lowell)	\$127,147	1	100	0
5	4100	76454 (Boston Light: Principal Keepers House)	\$1,482,878	1	100	0.009
6	7100	79253 (Historic Sewage Settling Tank, Moon Is)	\$284,580	1	92	0
7	4100	76499 (Spectacle Is Visitors Center)	\$3,201,049	1	88	0
8	4100	76474 (Boston Light: Boat House)	\$989,846	2	100	0.086
9	4100	76213 (E. Head: Bldg 31: New Guardhouse)	\$2,800,830	2	100	0.125
10	7300	83119 (Great Brewster Fortification Battery)	\$119,637	2	81	0
11	4100	76224 (E. Head: Bldg 36: Storehouse)	\$6,585,645	2	81	0.087
12	2100	79233 (Georges Is: Exterior Walkways)	\$44,124	2	80	0
13	2100	82297 (Boston Light Station Concrete Walks)	\$4,676,380	2	80	0
14	2200	82298 (Boston Light Station Wooden Walkway)	\$32,357	2	80	0
15	2100	79514 (Grape Is: Trails)	\$187,969	2	80	0
16	3100	82374 (Long Is Historic/Visitor Area: Fort Strong Parade Grounds)	\$7,731	2	80	0
17	2100	79673 (Deer Is: Walkways)	\$187,969	2	80	0
18	2100	79578 (Worlds End: Trails)	\$732,684	2	80	0
19	2100	79575 (Webb: Trails)	\$265,477	2	80	0
20	2100	79531 (Lovells Is: Trail)	\$124,300	2	80	0.013
21	2100	83118 (Long Is: Trails)	\$48,415	2	80	0.03
22	6300	76243 (Peddocks Is: Marina)	\$3,309,995	2	77	0
23	6300	76495 (Spectacle Island, Marina)	\$284,580	2	77	0
24	6300	76383 (Bumpkin Island, Marina)	\$1,025,825	2	77	0
25	6300	76701 (Gallops Island, Marina & Waterfront System)	\$284,580	2	77	0
26	6300	76857 (Deer Island, Docks)	\$1,686,775	2	77	0
27	6300	77018 (Nut Island, Waterfront/marina)	\$284,580	2	77	0
28	6300	76488 (Lovells Island, Marina)	\$1,949,067	2	77	0.051
29	6300	77016 (Thompson Island - Marina)	\$5,636,351	2	77	0.313

Table C9 (continued). BOHA High Exposure Asset List.

ID	Asset Code	Location Code (Description)	CRV	Optimiz Band	API	FCI
30	4100	76462 (Boston Light: Oil House)	\$23,641	3	100	0.369
31	6300	82660 (Georges Island, Waterfront Seawall)	\$2,170,300	3	77	6.4
32	4100	79580 (Worlds End: Contact Station)	\$113,920	3	71	0
33	4100	79582 (Worlds End: Rest Rooms)	\$10,679	3	69	0
34	7100	79258 (Nixes Mate: Day Marker)	\$116,196	3	67	0
35	4100	77006 (The Graves Light Station)	\$81,556	3	67	0
36	6300	79528 (Little Brewster Is: Boston Light Station, Docks)	\$75,227	3	55	0
37	1300	79676 (Deer Is: Parking Area)	\$76,689	3	52	0
38	1300	79574 (Web: Parking Lot)	\$76,689	3	52	0
39	7300	79264 (Great Brewster Fortification)	\$90,564	3	50	0
40	4100	76214 (E. Head: Bldg 39: Chapel)	\$4,184,946	4	88	0.399
41	4100	76248 (E. Head: Bldg 7: Carpenter Shop)	\$541,706	4	81	0.5
42	6300	76478 (Little Brewster Is: Marina)	\$108,245	4	77	0.382
43	4100	83126 (Outer Brewster Is - Desalinization Plant)	\$124,054	4	47	0
44	4100	98924 (Information KIOSK)	\$15,387	4	45	0
45	3100	79530 (Lovells Is: Campgrounds)	\$7,731	4	42	0
46	3100	79236 (Bumplin Is: Camp Sites)	\$7,731	4	42	0
47	7300	76848 (Lovells Is: Fort Standish)	\$103,081	4	41	0
48	4100	79509 (Georges Is: Shade Shelter)	\$255,900	4	38	0
49	4100	76217 (E. Head: Bldg 4: Stable)	\$662,911	5	80	1.072
50	6300	76482 (Grape Island, Marina)	\$589,179	5	77	1.024
High exposure assets that were not listed in FMSS at the time of visit						
51	n/a	Little Brewster Island: Walks	n/a	n/a	n/a	n/a
52	n/a	Thompson Island: Boathouse	n/a	n/a	n/a	n/a
53	n/a	Thompson Island: Pavillion	n/a	n/a	n/a	n/a
54	n/a	Webb Memorial: Picnic Shelter	n/a	n/a	n/a	n/a