

Channel Islands National Park (CHIS)

Table E3. Summary of Findings for CHIS.

Exposure level	# of assets	% of assets	CRV	% of total CRV
High Exposure	23	14%	\$46,691,845	29%
Limited Exposure	143	86%	\$113,547,395	71%
TOTALS	166	100%	\$160,239,240	100%

Park visit

not visited for this particular study, however, staff at PSDS has knowledge of park from other research and has visited the park in the past.

Park contacts

Karl Bachman; Facility Manager

Primary data utilized

- 1) NPS FMSS location hierarchy report
- 2) 2009 - 2011 CA Coastal Conservancy Coastal Lidar Project
- 3) 2009 US Army Corps of Engineers Joint Airborne Lidar Bathymetry Technical Center of Expertise Bathymetric Lidar: Southern California
- 4) 2002/2003 IfSAR data for Southern California: Digital Elevation Model

Process/methods for exposure determination

Analysis completed using LiDAR, maps, geologic analysis and knowledge of area. It was determined that on the islands, primarily docks and piers (and associated assets) are high exposure, as well as a number of the mainland assets (HQ area). It should be noted that many of the docks and piers may have SLR as a consideration in the design, and therefore, would be able to adapt to SLR. One asset not listed in FMSS but mentioned in the review process is also noted below.

CHIS 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)

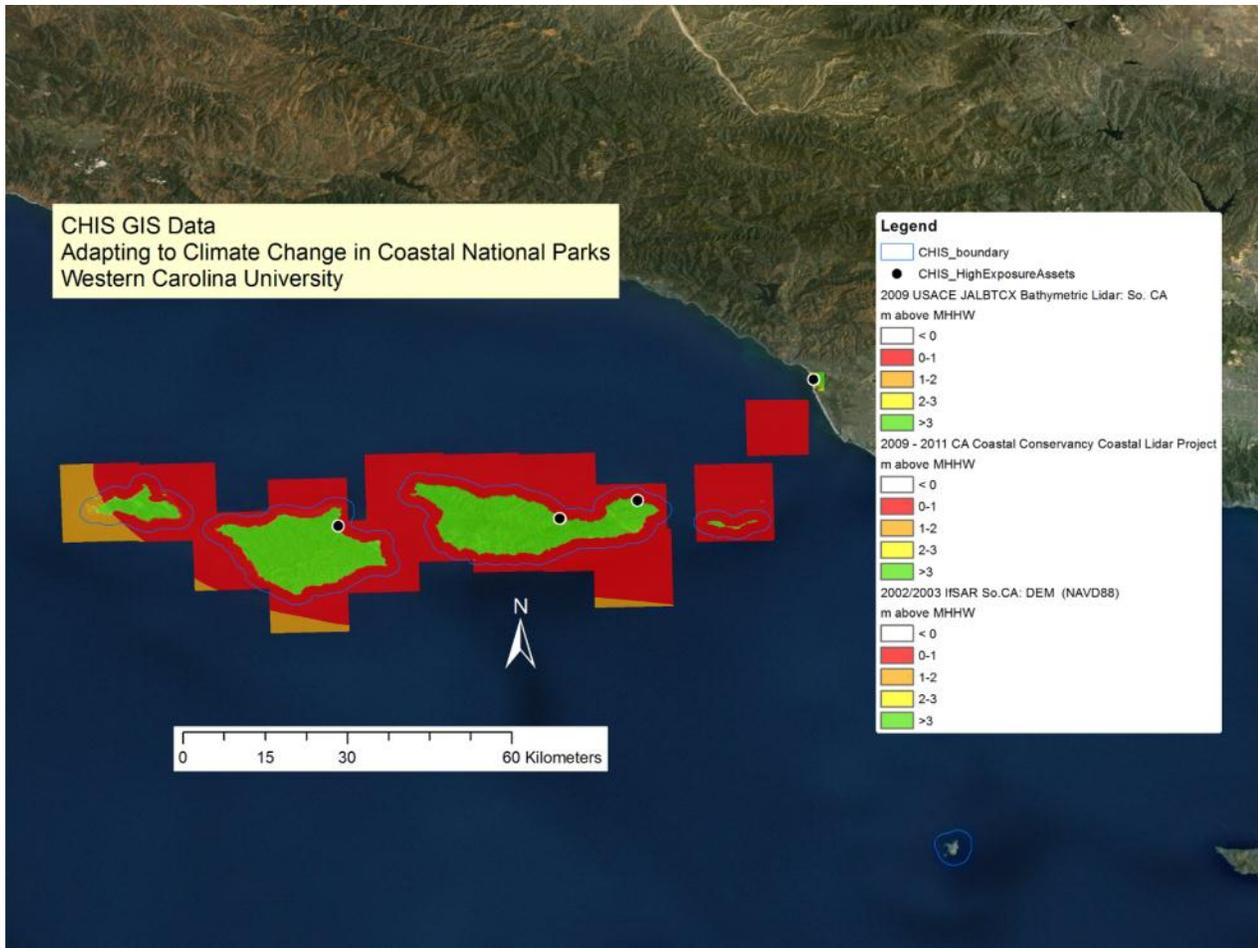


Figure E3. CHIS GIS map of park boundary and high-exposure assets. NOAA tides and currents website was used to calculate MHHW (1.6 m above NAVD88), for CHIS used Santa Barbara, CA station: <http://tidesandcurrents.noaa.gov/datums.html?id=9411340>.

Table E4. Complete list of GIS Data utilized for CHIS.

Data Name	Data Source
2002/2003 IFSAR data for Southern California: Digital Elevation Model (NAVD88)	NOAA: http://www.csc.noaa.gov/dataviewer/#
2009 - 2011 CA Coastal Conservancy Coastal Lidar Project	
2009 USACE JALBTCX Bathymetric Lidar: Southern California	
Road Density Metric Product (RDD), 2009, NPS Natural Resource Inventory and Monitoring Division	IRMA, NPS: https://irma.nps.gov/App/

Table E5. CHIS High Exposure Asset List.

ID	Asset Code	Location Code (Description)	CRV	Optimiz Band	API	FCI
1	3100	48909 (G HQ Native Plant Garden)	\$582,967	36	4	0
2	1300	48907 (R HQ Parking and Service Paved Road)	\$618,757	38	3	0
3	4100	75518 (B HQ HAZ MAT Building)	\$47,872	40	4	0
4	4100	61201 (B HQ Propane Building)	\$47,872	40	3	0
5	4100	109465 (B HQ Green House)	\$47,355	43	5	0
6	4100	109300 (B HQ Resource Management Annex)	\$3,865,748	52	4	0
7	4100	109307 (B HQ Administration Midway Office Bldg.)	\$6,765,059	53	4	0
8	4100	77550 (B HQ Bally Building)	\$54,811	56	4	0
9	3100	79379 (G MSC Prisoners Harbor Historic Groves)	\$3,289,214	57	5	0
10	5700	102567 (U SBI Propane System)	\$128,033	61	2	0
11	3100	48063 (G MSC Corrals Prisoners Historic)	\$933,824	62	5	0
12	4100	47747 (B SBI Dock Building)	\$471,879	63	2	0
13	3100	48067 (G MSC Prisoners Picnic Area)	\$16,589	64	4	0
14	4100	47919 (B ESC Vault Toilet/Beach)	\$60,670	64	4	0
15	5300	75338 (U HQ Heating & Cooling Plant)	\$500,160	65	3	0
16	5100	77431 (S MSC Prisoners Well Historic)	\$13,192	68	5	0
17	6300	47914 (ESC East Santa Cruz Island, Pier)	\$5,366,714	78	2	1
18	4100	48905 (B HQ Headquarters Building)	\$7,528,631	78	1	0
19	6300	48906 (HQ Headquarters, Docks)	\$779,627	78	1	0
20	6300	61194 (D MSC Prisoners Pier)	\$1,536,458	88	1	0
21	6300	48077 (D AI Anacapa Island, Docks)	\$911,844	88	1	0
22	6300	47756 (SBI Area Santa Barbara Island Waterfront System)	\$1,395,122	88	1	0
23	6300	48090 (D SRI Bechers Pier)	\$11,729,447	100	2	1
Not in FMSS version but mentioned by park as high exposure (not included in totals)						
236183 (IM AI Anacapa Island Dock Waysides)						