# SAC CHALLENGE DIVING SEAT

BY:

BRIAN NELSON – PRIMARY

KEITH ROOTSAERT - ALTERNATE

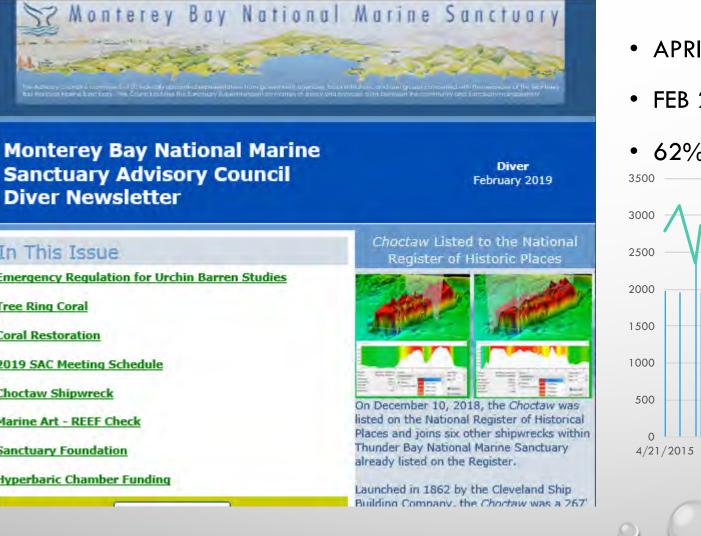
4-19-19 MOSS LANDING, CA

### CONDUIT TO CONSTITUENTS

- BI-MONTHLY NEWSLETTER
- YEARLY DIVER POLL MEASURING OUR EFFORTS
- DIVE STORE HANDOUTS
- SPEAKING EVENTS
- DISCUSSIONS WITH DIVERS
- ENGAGING WITH OTHER SANCTUARY SEATS
- ADVISING SANCTUARY LEADERSHIP



## **BI-MONTHLY NEWSLETTER**



- APRIL 2015 1,987, 35% OPEN, 3% CLICK
- FEB 2019 3,044, 29.5% OPEN, 8.8% CLICK

#### 62% DESKTOP; 38% MOBILE



#### In This Issue

**Emergency Regulation for Urchin Barren Studies** 

**Tree Ring Coral** 

**Coral Restoration** 

2019 SAC Meeting Schedule

**Choctaw Shipwreck** 

Marine Art - REEF Check

Sanctuary Foundation

Hyperbaric Chamber Funding

#### YEARLY DIVER POLL

Response Status	s: Partial & Completed	er 2018				
Filter: None						
2/14/2019 3:30 P						
	In your opinion does to negative effect of the u			Marine Sanctuar	y have an overall	positive o
	Answer	0%		100%	Number of Response(s)	Respons
TextBlock:	Positive	01	and a state	No. of the local diversion of the local diver	169	89.4 9
	Negative	1			2	1.0 9
Please share you questions are du	Do not know				17	8.9 9
dive community e	No Response(s)				1	<1 9
Brian and Keith	Construction of the second s			Totals	189	100
increasing or e						
increasing or ( Answer Increased	Please rate your level	of satisfaction with	n each of the followin	ng aspects of Mor	iterey Bay Nationa	al Marine
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- YEARLY SNAPSHOT
- TRENDS
- REVIEW WRITTEN COMMENTS
- SPECIAL TOPICS

Purple urchins (Stronglyocentrotus pupuratus) transformed many Monterey and Carmel kelp forests into urchin barrens. Beginning in 2014 observed populations of purple urchins have increased significantly and giant kelp densities have decreased significantly. Openly grazing purple urchins can live for more than a year without eating, can eat from the water, and recruit urchin larvae to the hard substrate. Urchin barrens are considered a decadal alternative stable state, meaning they could last for more than 10-\*years. (These statements remain undisputed). There are ongoing efforts in Southern California and Northern California to clear some of the impacted areas. This effort is not meant to change the issue but to mitigate small areas in an effort to retain some of the displaced marine species normally found in our local kelp forests until more science leads the Marine Life Professionals to clearer answers. This survey question is asking for your "current" opinion if we should take a specific action at this time in Monterey and Carmel near coastal areas.?

Answer	0%	100%	Number of Response(s)	Response Ratio
Yes, I support removal efforts with the proper permits	Construction of the second		158	83.5 %
Maybe, I want additional supporting scientific studies of the problem and advice			29	15.3 %
No, this is a natural process and we should only observe what happens			2	1.0 %
No Response(s)			0	0.0 %
		Totals	189	100%

### MEASURING OUR EFFORTS

Answer	0%	100%	Number of Responses	Response Ratio
Friend or colleague			<u>45</u>	45.4%
Email communication			15	15.1%
Diving Instrutor	terror and the second se		22	22.2%
Through another organization			14	14.1%
Dive store			27	27.2%
Internet search (google, yahoo, etc.)			9	9.0%
Social media site (Facebook, LinkedIn, etc.)			3	3.0%
Other (View all)			33	33.3%
		Totals	99	100%

Answer	0%	100%	Number of Responses	Respons
ncreased			<u>76</u>	76.79
Decreased			5	5.0
Other (View all)			<u>10</u>	10.1
No Responses			6	6.09
		Totals	99	100%

View comments (17)

0







#### DIVE CENTERS AND STORE OWNERS



- DIVER EDUCATION STARTS HERE
- USING DIVER EDUCATION AS A STEPPING STONE TO INTRODUCING WHAT AND WHERE IS THE MONTEREY BAY NATION MARINE SANCTUARY
- DIVER CLEAN UP VOLUNTEERS
- DIVE TRAINING AGENCY SUPPORT
   PROJECT AWARE

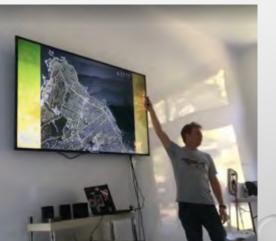


- DIVE CLUBS
- PUBLIC FORUM
- GOVERNMENTAL AUTHORITIES
- DIVING NON-GOVERNMENT ORGANIZATIONS











#### SPEAKING EVENTS



CLUB OF SILICON

V drosy O







holds a diving seat on the

February 14, 2019 Keith Rootsaert Reef Check -Marine Ecology



since 1984 and is very

Munterey Bay National Couriel, is a solunteer at local dive boats and shops, conservation of two trainer for Reef Check in Los Angeles and over 1000 dives in his 35 years than 90 countries and of diving in places such as territories. Reef Check Mexico, Bonaire, the Cayman works as crease partnerships Islands, Florida, Hawaii, and among community Washington state, but most volunteers, government

past president and dive his extensive experience

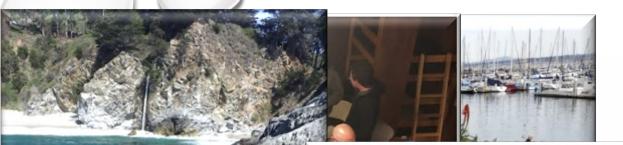
coordinator of the Monterey with Reef Check California Bay Sea Otters Dive Club, as a contract instructor.

a SCUBA diver in Monteney of his diving is logged in the agencies, businesses, cold waters along the aniversities and other active in the local diving California coust.

marine ecologie Dr Gregor Marine Sanctuary Advisory Hodgson, the Reef Check Foundation is an the Monterey Bay Aquanum, international non-profit works as a Dive Master for organization dedicated to is an instructor for Reef ecosystems: tropical coral Environmental/Education reefs and California rocky Foundation, and is a contrast reefs. With headquarters California. He has enjoyed volunteer teams in more

Founded in 1996 by

num-profits. Rovf Check v



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DIVE CLUBS

DIVER GATHERINGS FOR EDUCATION & SOCIAL EVENTS

- SOCIAL MEDIA
- DIVERS DIVING

Tristin McHugh

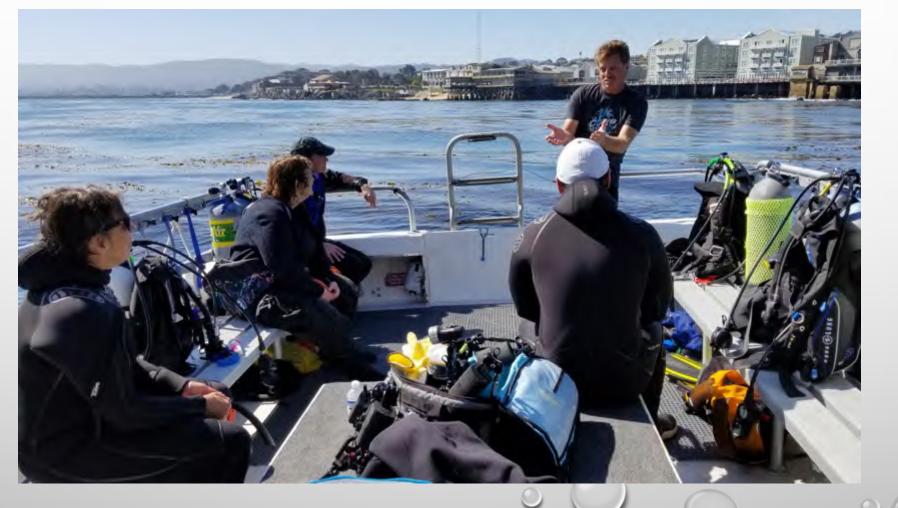


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> e are about 100 vide, but most are value. Seven tes for this area's

successful.









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## ENGAGING WITH OTHER SANCTUARY SEATS

- BI-MONTHLY SAC MEETINGS WE BOTH ATTEND ALL MEETINGS
- RAP
- NEWSLETTERS FOR RECREATION/TOURISM AND RECREATIONAL FISHING
- SEAT APPLICATION REVIEWS
- AT-LARGE BOEM OFFSHORE WIND POWER
- AG URCHIN FERTILIZER
- COLLEGE URCHINOMICS (URCHIN REHABILITATION)
- CDFW COLLABORATIVE FISHERIES RESEARCH



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OAA NATIONAL MARINE SANCTUARIES OMB #0648-014 PERMIT APPLICATION Express 731/2021

Refer to "Instructions for Submitting Applications for National Marine Sascitany Permits and Authorizations" for gaidance on how to equiply complete this application. Application are reported to reviewing the instructions in their ministry to course are all application requirements are rest.

Note: Sin: contain attraction, complexion at this application may not be required. Consult the instructions and the Office of National Marine Sancharies (INMS) <u>generic working</u> prior to complicing and submitting this application to nee if this is the case for your proposal attivity.

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**Circutic Families** 

ADVISING SANCTUARY LEADERSHIP

• EXECUTIVE COUNCIL

- REVIEW DIVING POLL WITH SUPERINTENDENT
- SEAT APPLICATION REVIEWS
- PRESENTATIONS BEFORE THE SAC
  DIVING PROJECTS IN THE SANCTUARY
  URCHIN REMOVAL / KELP RESTORATION
  - ARTIFICIAL REEF



Sanctuary Advisory Council Resolution Monterey Bay National Marine Sanctuary

Monterey Bay NMS Advisory Council recommends MBNMS staff coordinate





# THANK YOU

#### CONDUIT INFO

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