Channel Islands Monitoring Workshop Questionnaire

Please Complete and Return to:

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Name:	
ivaille.	Last First M.I.
Addres	s:
City:	
State:	
Zip:	
Email:	
Phone:	
Fax:	
	rank the following Biological Monitoring Questions in order of relative ance within each category
Change	es within Reserves (Use each rank only once, 1 high - 3 low)
	Do species inside MPAs increase in size, numbers, richness/diversity and biomass relative to areas adjacent and distant from reserves? Rank 1 2 3 3
2.	How do changes in size, numbers and biomass of fish differ among reserves?
3.	ls there increased larval production in reserves? Rank 1 2 3
Spillove	er (Use each rank only once, 1 high - 4 low)
	ls there movement of adult fish and invertebrates from reserves to non-reserve areas? Rank 1 2
(Does movement of adult fish and invertebrates from reserves increase catch outside the reserve? Rank 1 2 3 4 2 of 11

Please rank the following Socioeconomic monitoring topics in order of relative importance within each category. Note that the following list was previously ranked by the Channel Islands National Marine Sanctuary (CINMS) Advisory Council. Your input will provide a broader representation of ranks.

Comn	nercial Fishing	(Use each rank only once, 1 high - 5 low)
1.	California Departme a finer scale (1x1 m	nitoring alue of catch for CINMS and surrounding areas using nt of Fish and Game trip ticket data (10x10 minute blocks) o nute blocks). (Annually) 2
2.	Choose representation from marine reserve previously fish in armarinas, ports and marginal fishermen	Panels – Costs, Earnings and Investment ve panels of commercial fishermen including those displace s and not displaced from reserves (those who did not eas designated as marine reserves). Include tracking of earbors; Track changes in unemployment reporting; Include n panels. (Annually) 2 3 4 5
3.	the marine reserves Assessments of the account these other	nd management strategies se impacted not only by general environmental conditions an se impacted not only by general environmental conditions an se impacts of marine reserves on fishermen must take into factors. (Annually) 2 3 4 5 5
4.	strategies and regul socioeconomic prof	r their knowledge, attitudes, and perceptions of managemen ations (including no-take regulations), along with les of fishermen. Possibly including representative n using survey methodologies. (Every 5 years)
5.		ne Reserves 'edge effect" of consumptive uses in proximity to marine ple, document the level of effort and catch adjacent to and

Recre	ational Fishing and Consumptive Diving (Use each rank only once, 1 high- 5 low)
1.	Catch and Use Monitoring Monitor use and catch for Southern California using the National Marine Fisheries Service, Marine Recreational Fishing Statistics Survey (NMFS-MRFSS). (Annually) Rank 1 2 3 4 5
2.	Charter boat/party boat/guide Panels – Costs, Earnings, Investment and Use Choose representative panels of recreational fishermen including those displaced from marine reserves and not displaced from reserves (those who did not previously fish in areas designated as marine reserves). Include tracking of marinas, ports and harbors; Include in panel studies evaluation of if/where charter boats relocate. (Annually) Rank 1 2 3 4 5
3.	Other regulations and management strategies Fisheries will likely be impacted not only by general environmental conditions and the marine reserves, but also other regulations and management strategies. Assessments of the impacts of marine reserves on fishermen should take into account these other factors. (Annually) Rank 1 2 3 4 5
4.	Knowledge, Attitudes and Perceptions Survey fishermen for their knowledge, attitudes, and perceptions of management strategies and regulations (including no take regulations), along with socioeconomic profiles of charter/party/guide boat owners, captains and mates. Possibly including representative samples of charter/party/guide boat owners, captains and mates using survey methodologies. (Every 5 years). Rank 1 2 3 4 5
5.	Edge effects of Marine Reserves Spatially document "edge effect" of consumptive uses in proximity to marine reserves. For example, document the level of effort and catch adjacent to and far from reserves. Rank 1 2 3 4 5

Recre	ational Non-consumptive Uses (Use each rank only once, 1 high - 7 low)
1.	Charter/party/guide/concessionaire Boat Panels – Costs, Earnings, Investment and use This would be done in conjunction with the consumptive use panels, since many operations engage in both consumptive and non-consumptive uses. (Annually) Rank 1 2 3 4 5 6 7
2.	Private household boat use This would include a survey of California boaters and would be part of a statewide boating study. Additional information on socioeconomic profiles of users, spending profiles and knowledge, attitudes and perceptions of management strategies and regulations could be added to the survey. It could include tracking of marinas, ports and harbors. (Every 5-10 years) Rank 1 2 3 4 5 6 7
3.	Knowledge, Attitudes and Perceptions Survey non-consumptive users for their knowledge, attitudes, and perceptions of management strategies and regulations (including no take regulations), along with socioeconomic profiles of charter/party/guide/concessionaire boat owners, captains and mates. Possibly including representative samples of charter/party/guide/concessionaire boat owners, captains and mates using survey methodologies. (Every 5 years) Rank 1 2 3 4 5 6 7
4.	Other regulations and management strategies Non-consumptive users could be impacted by other regulations (e.g., seabird closures). Assess the relative impacts of these regulations in comparison to Marine Protected Area regulations. (Annually) Rank 1 2 3 4 5 6 7
5.	Non-consumptive uses within marine reserve areas Spatially document non-consumptive uses within reserves. Rank 1 2 3 4 5 6 7
6.	Other User Groups Identify additional user groups (e.g., educators, researchers) and how the reserves impact their activities Rank 1 2 3 4 5 6 7
7.	Indirect (non-use) Value Confirm estimates of indirect (non-use) value of marine reserves through surveys. Rank 1 2 3 4 5 6 7

Other Socioeconomic Monitoring Questions If you have other questions that are not encompassed by the above list, please describe them here (use additional pages if necessary):

mportant Habitats		
Please rank the following habitats in o	order of importance for monitoring:	
	(Please use each rank only once)	
General Habitat Type	Rank (1 highest, 9 lowest)	
Sandy Beach	1 2 3 4 5 6 7 8 9 9	
Rocký Intertidal	1	
Shallow Sand/Mud (0 - 30 m)	$1\square$ $2\square$ $3\square$ $4\square$ $5\square$ $6\square$ $7\square$ $8\square$ $9\square$	
Shallow Rock/Kelp Forest (0 - 30 m)	1	ᆿ .
Shallow Eelgrass/Surfgrass	1 2 3 4 5 6 7 8 9 9	亏
Moderate Sand/Mud (31 - 100 m)	$1 \square 2 \square 3 \square 4 \square 5 \square 6 \square 7 \square 8 \square 9 \square 9$	=
Moderate Rock (31 - 100m)	$1\square$ $2\square$ $3\square$ $4\square$ $5\square$ $6\square$ $7\square$ $8\square$ $9\square$	=
Deep Sand/Mud (>100 m)	$1 \square 2 \square 3 \square 4 \square 5 \square 6 \square 7 \square 8 \square 9 \square 9$	
Deep Rock (>100 m)	1 2 3 4 5 6 7 8 9 9	
Soop Hook (* 100 m)		_
mportant Fish and Invertebrate Sp	ecies/Species Groups	
Please rank the following species/spe	ecies groups in order of importance for monitoring,	
- · · · · · · · · · · · · · · · · · · ·	difficult to monitor than others. If you feel a single	
· · · · · · · · · · · · · · · · · · ·	r level of consideration, write its name and rank in	
the spaces marked "Other":	level of consideration, write its name and fank in	
(1 very impo	tant 5 moderate importance 10 not important)	
Giant Kelp 1 ☐ 2 ☐		10 C
Eelgrass/Surf Grass 1 2 2		10 E
Sponges 1 2	. = = = = = =	10 [
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	(1 very	importa	nt 5	5 moder	ate imp	ortance	•	10 not ir	nportan	t)
Giant Kelp	1 🔲	2 🗌	3 🔲	4 🔲	5 🔲	6□	7 🔲	8 🗌	9 🗌	10 🔲
Eelgrass/Surf Grass	1 🔲	2 🔲	3 🔲	4 🔲	5 🗌	6 🗌	7 🔲	8 🗌	9 🗌	10 🗌
Sponges	1 🗍	2 🗍	3 🔲	4 🔲	5	6 □	7	8 🔲	9 🗌	10 🗌
Anemones	1 □	2 🗍	3 🔲	4 🔲	5 🗍	6	7 🕅	8 🗌	9 🗌	10 🔲
Hydrocoral	1 🗂	2 🗂	3 🗍	4 🔲	5 🕅	6 🗖	7 🕅	8 🔲	9 🔲	10 🔲
Cup coral	1 🗂	2 🗂	3 🗖	4 □	5 🗖	6□	7 🗔	8 🗍	9□	10 🗍
Gorgonian	1 🗂	2	3 🗖	4 □	5 🗍	6	7	8 🗍	9□	10
Bat Stars	1 🗂	2 🔲	3 🗍	4 □	5 🔲	6□	7 🔲	8 🔲	9 🔲	10 🔲
Giant-spined Stars	1 □	2 🗍	3 🗍	4 🗖	5 🗍	6□	7 🔲	8 🔲	9 🔲	10 🔲
Sunflower Stars	1 🗂	2 🗍	3 □	4 □	5 □	6□	7 🔲	8 🔲	9 🔲	10 🔲
Brittle Starts	1 🗂	2 🔲	3 🔲	4 🗖	5 🗍	6□	7 🔲	8 🔲	9 🔲	10 🔲
Sea Urchins	1 🗂	2 🔲	3 🔲	4 □	5 🔲	6□	7 🔲	8 🔲	9 🔲	10 🔲
Sea Cucumbers	1 🗖	2 🔲	3 🔲	4 □	5 🔲	6□	7 🔲	8 🗌	9 🗌	10 🗌
Crabs	1 🗍	2 🗍	3 🔲	4 🔲	5 🔲	6□	7 🔲	8 🗌	9 🗌	10 🗌
California Spiny Lobster	1 □	2 🔲	3 🔲	4 🔲	5 🗌	6□	7 🔲	8 🗌	9 🗌	10 🗌
Market Squid	1 🔲	2 🔲	3 🔲	4 🔲	5 🔲	6□	7 🔲	8 🗌	9 🗌	10 🗌
Abalone	1 🔲	2 🔲	3 🔲	4 □	5 🔲	6□	7 🔲	8 🗌	9 🗌	10 🗌
Turban Snails	1 🔲	2 🗍	3 🔲	4 □	5 🔲	$6\square$	7 🔲	8 🗆	9 🗌	10 🗌
Kellets Whelk	1 🗍	2 🗍	3 🔲	4 🔲	5 🔲	6 □	7 🔲	8 🗌	9 □	10 🔲
Rock Scallop	1 □	2 🗂	3 🔲	4 🔲	5 🗌	6 □	7 🔲	8 🗌	9 🗌	10 🔲
Clams	1 🗍	2 🗂	3 🗍	4 □	5 🗌	6 □	7 🔲	8 🗆	9 🗌	10 🔲
Shrimp/Prawns	1 🗍	2 🗂	3 🔲	4 □	5 🔲	6 🔲	7 🔲	8 🗌	9□	10 🔲
Nearshore Rockfish ¹	1 🗍	2 🗂	3 🗍	4 □	5 🗍	6□	7 🗌	8 🗌	9 🗌	10 🔲
Cabezon	1 □	2 🗂	3 🗍	4 🔲	5 🗔	6 🗍	7 🔲	8	9 🔲	10
California Scorpionfish	1 🗖	2 🗔	3 🔲	4 🔲	5 🔲	6 🔲	7 🔲	8 🗌	9 □	10 🔲

¹ Nearshore Rockfish are: black-and-yellow (*Sebastes chrysomelas*), China (*S. nebulosus*), gopher (*S. carnatus*), grass (*S. rastrelliger*), kelp (*S. atrovirens*), black (*S. melanops*), blue (*S. mystinus*), brown (*S. auriculatus*), calico (*S. dalli*), copper (*S. caurinus*), olive (*S. serranoides*), quillback (*S. maliger*), and treefish (*S. serriceps*) rockfish.

² Shelf Rockfish are: bocaccio (*Sebastes paucispinis*), bronzespotted (*S. gilli*), canary (*S. pinniger*), chameleon (*S. phillipsi*), chilipepper (*S. goodei*), cowcod (*S. levis*), dwarf-red (*S. rufinanus*), flag (*S. rubrivinctus*), freckled (*S. lentiginosus*), greenblotched (*S. rosenblatti*), greenspotted (*S. chlorostictus*), greenstriped (*S. elongatus*), halfbanded (*S. semicinctus*), honeycomb (*S. umbrosus*), Mexican (*S. macdonaldi*), pink (*S. eos*), pinkrose (*S. simulator*), pygmy (*S. wilsoni*), redstriped (*S. proriger*), rosethorn (*S. helvomaculatus*), rosy (*S. rosaceus*), silvergrey (*S. brevispinis*), speckled (*S. ovalis*) squarespot (*S. hopkinsi*), starry (*S. constellatus*), stripetail (*S. saxicola*), swordspine (*S. ensifer*), tiger (*S. nigrocinctus*), vermilion (*S. miniatus*), yelloweye (*S. ruberrimus*), and yellowtail (*S. flavidus*) rockfish.

³Slope Rockfish are: aurora (*S. aurora*), bank (*S. rufus*), blackgill (*S. melanostomus*), darkblotched (*S. crameri*), Pacific ocean perch (*S. alutus*), redbanded (*S. babcocki*), rougheye (*S. aleutianus*), sharpchin (*S. zacentrus*), shortraker (*S. borealis*), splitnose (*S. diploproa*), yellowmouth (*S. reedi*) rockfish.

Active Workshop Participants

If you would like to recommend someone who can best represent your views at the workshop, please fill in their contact information below. Note that participants will be limited to facilitate a constructive dialogue. Use additional Sheets if necessary.

Name: Address: City: State: Zip: Phone: Fax: Email:	
Existing N	Monitoring Programs
type of info list will be intended to monitoring	eating an annotated list of existing monitoring programs with details of what ormation each program collects and maps of where monitoring occurs. This distributed along with the meeting materials prior to the workshop. It is a help determine which programs can be incorporated directly into the overall framework. If you manage or participate in a monitoring program that has y been contacted please provide your name and contact information below.
Name: Address: City: State: Zip: Phone: Fax: Email:	
Future Up	odates
	us know how you would like to be kept aware of monitoring results: many as apply)
☐ Fisl	n and Game Commission Meeting Updates ☐Once a Year ☐Twice a Year ☐More Often (Please Specify)
	More Often (Please Specify)
	nctuary Advisory Council Meetings/Mailings
∟ Anr	nual Public Meetings in Santa Barbara/Ventura

☐ Small "Town Hall" Meetings in variou ☐ Once a Year ☐ Twice a Year	is ports
☐ More Often (Please Specify)	
☐ Newsletter/Flyer	
☐ Once a Year	
☐Twice a Year	
☐ Quarterly	
☐ More Often (Please Specify)	
☐Internet Web Site Updates	
□Other (Please Specify)	