California Marine Habitat Task Force Meeting
January 20-21, 2000
Attendee List

Task Force Personnel

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Attendees

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CALIFORNIA MARINE HABITAT TASK FORCE

ESSP/SIVA • CSU-MONTEREY BAY • 100 CAMPUS CENTER • SEASIDE, CA 93955

Dear Mr. Kent,

You are cordially invited to the California Marine Habitat Task Force Meeting, sponsored by California Department of Fish and Game, National Ocean Services Special Projects Office, and National Marine Fisheries Service. This meeting is a landmark event designed to be the first stage in creating a multi-agency cooperative aimed at producing a comprehensive habitat map of the California continental shelf. In designing this meeting, we have attempted to include those agencies and organizations with a vested interest in mapping these marine habitats. Within those organizations, we have sought to identify the most qualified experts to attend the meeting. You have received this invitation because your participation is crucial to provide valuable input and to represent the needs of your organization. Travel expenses and per diem will be provided by the sponsors if case your institution does not have a budget to cover them. We will be finalizing the list of attendees on November 10th and space is limited, so please respond quickly to ensure your participation. After the attendee list is finalized, I will be sending you a second announcement with a detailed agenda and instructions for compiling the types of information you will need to bring to the workshop. We look forward to your participation. Feel free to call me if you have any questions.

Sincerely,

Amanda Green
Conference Coordinator
Email: amanda_green@monterey.edu
Phone: (831)582-4687
Fax: (831)582-3073

CALIFORNIA MARINE HABITAT TASK FORCE

ESSP/SIVA • CSU-MONTEREY BAY • 100 CAMPUS CENTER • SEASIDE, CA 93955

November 23, 1999

Dear Task Force Participant,

I would like to thank you again for your willingness to represent your institution's interests at the first California Marine Habitat Task Force Strategic Planning Meeting on January 20-21, 2000. Attached please find the draft meeting agenda along with the survey sheets and reference maps designed to assess your institution's mapping needs and data holdings. More information and updates about the meeting can be found at the Task Force web site: http://skyler.monterey.edu/~cahabmap.

To insure the success of, and your participation in, the Task Force Strategic Planning Meeting, we must receive the information on your institution's data needs, selection criteria and holdings no later than **December 15, 1999**. Our plan is to compile this information into maps and tables in advance of the January meeting that will show the distribution of existing or planned data sets as well as the areas where data is most needed. These summaries will be used to perform a data gap analysis that will be presented at the beginning of the meeting and used to focus our discussions on setting mapping priorities and data sharing. This advance work on the part of each of the participants is essential if we are to achieve the goals of the meeting in just two days. Participants outside of California can use the enclosed information as the framework for the task force meeting.

By marine habitat mapping we mean spatial quantification of those physical parameters of greatest value in defining seafloor habitat (e.g. depth, substrate type, slope, and aspect). These data can then be classified according to the marine habitat classification scheme we will be discussion at the January meeting. Examples of various marine habitat GIS products for the Big Creek Marine Reserve can be viewed on the California Marine Habitat Task Force web site. Additional information on the theory, methods and considerations of resolution and scale for marine habitat is also available on the web site.

Following are the instructions for using and completing the enclosed survey material templates. These materials are also being emailed to you as attachments should you wish to use them in electronic form. We are using the long established 10' x 10' fishing blocks (see enclosed maps) as a way to define areas of interest and data holdings. Use the enclosed forms and maps as templates that can be copied and filled out as needed.

We need **four** different sets of information from each Task Force member representative relating to Data Needs and Data Holdings. (Remember, as a Task Force participant you are representing your agency or institutional interests.)

- The criteria that you set and used for selecting and ranking sites for habitat mapping.
- List of top 10 sites in rank order for your institution's habitat maps needs.
- **ONE** completed Data Needs Worksheet for **EACH** area for your institution's habitat maps needs, along with **ONE** set of regional maps that illustrates the total needs.
- **ONE** completed Data Holdings Worksheet for **EACH** area for which your institution has or will be collecting habitat mapping data, along with **ONE** regional set of maps that illustrates the total holdings of your organization.

Thank you again, and please feel free to contact me if you have any questions. I look forward to seeing you in January.

Regards,
Amanda Green
California Marine Habitat Task Force Coordinator

DATA NEEDS

Ranking Criteria List

Start by listing all the reasons why you might want to have a site mapped. The following examples are not presented in any particular order, and we encourage you to modify and add other criteria to this list. Please include this list in the material you send to us.

Areas of use conflict
Areas of multiple use (potential conflict)
Designated Areas (special use, harvest areas, reserves, preserves, sanctuaries, etc.)
Significant natural areas (areas known to be of unique or important natural value, but not having any official or political designation)
High use areas (rank according to user distribution and concentration)
DFG current management priorities
Areas of high profile political interest
Area used by species of special interest or concern
Availability of existing habitat data

Applying Ranking Criteria to Fishing Block Maps

Once you have agreed upon the ranking criteria with your colleagues, you are ready to apply these criteria to the enclosed maps showing the grid of numbered fishing blocks. We have provided you with one set of hard copy maps of the three California regions (northern, central and southern). Make several copies of these maps (as appropriate to your region/s of interest) to use as scratch sheets as you go through the scoring process.

We recognize that your areas of interest may be larger or smaller than a fishing block, and this fact can be addressed on the Data Needs Worksheet. Here, we just want to identify what the geographic distribution of mapping needs are. To weight the blocks according to your criteria, place one check in each block for each of the criteria that apply. (A block may theoretically contain up to as many checks as there are ranking criteria.)

Completing Data Needs Worksheet

Start by making several copies of the blank worksheet and map templates included with this package. Then, for each specific area that your institution needs to have habitat maps for, complete one Data Needs Worksheet, describing WHERE, WHY, WHAT and HOW, and WHEN this mapping should be done. Mark and label each of these areas on copies of the enclosed maps. Note: Only one “data needs map” needs to be turned in for each region (Northern, Central, and Southern) that your organization is interested in. You do not need a new map for each new worksheet.

Selecting & Ranking Top 10 High Priority Sites for Habitat Mapping

Once you have identified, described and marked each of your areas of mapping interest, list in **RANK ORDER** your **TOP TEN** high priority sites for mapping.

DATA HOLDINGS

The results from the Data Holdings Worksheets will be compared with those from the Data Needs Worksheets to identify areas of overlap for data sharing and new data acquisition.

Completing Data Holdings Worksheet

Start by making several copies of the blank Data Holdings Worksheet and map templates included with this package (the map templates are the same as for the data needs). Then, for each specific area for which your institution has existing habitat, substrate or multibeam bathymetry data, or plans for obtaining those data, complete one Data Holdings Worksheet, describing WHERE, WHY, WHAT, HOW and WHEN this mapping was/will be done. As with the Data Needs Worksheets, mark and label each of these areas on copies the enclosed maps. Note: Only one "data holdings map" needs to be turned in for each region (Northern, Central, and Southern) that your organization is interested in. You do not need a new map for each new worksheet.

Return the completed maps and forms by December 15th to:

Amanda Green - Habitat Task Force Coordinator
CSUMB ESSP/SIVA
100 Campus Center
Seaside, CA 93955
Phone: 831-582-4687
Fax: 831-582-3073
Email: amanda_green@monterey.edu

Marine Habitat Data **Needs** Worksheet Worksheet ____ of _____

Your Name: _____
Institution Name: _____
Address: _____
_____
_____
_____

Data Contact: _____
Phone Number: _____
Email: _____

Fill out one worksheet for each area of interest (see instructions).

Where should mapping be done? (shade cells or draw the area on copies of the attached maps)

Site name: _____
General location: _____
Priority: θ**High** (high need to complete within 1-2 years)
θ**Medium** (complete within next 2-5 years)
θ**Low** (complete within 5-10 years)
Approximate size of area mapped (Sq. miles) _____
Water depth range (ft): minimum depth _____ft maximum depth _____ft
Block number(s) that cover the proposed area (from attached maps)_____
_____
_____

Why should mapping be done? (use back of page as needed)

Ranking criteria that apply: _____
_____
_____
Species or resources of concern: _____
_____
_____
Management issues of concern: _____
_____
_____
_____
How would the mapped data be used? _____
_____
_____
_____

What habitat parameters should be mapped?

bathymetry substrate type

How finely should this site be mapped? (resolution & scale)

What is the smallest habitat "patch" size you need to identify on your map? (e.g. every rock larger than 1x1 ft, or rocky reefs greater than 500 x 500 ft)

__ 1 x 1 ft __ 10 x 10 ft __ 100 x 100 ft __ 1000 x 1000 ft __ other_____

Please explain your choice (use back of page as needed):

Marine Habitat Data **Holdings** Worksheet Worksheet ____ of _____

Your Name: _____
Institution Name: _____
Address: _____
_____
_____
_____

Data Contact: _____
Phone Number: _____
Email: _____

Fill out one worksheet for each coverage (see instructions).

Where has/will mapping be(en) done? (shade cells or draw the area on copies of the attached maps)
Site name: _____
General location: _____
Approximate size of area mapped (Sq. miles) _____
Water depth range (ft): minimum depth ___ft maximum depth _____ft
Block number(s) that cover the data set (from attached maps)_____
_____
_____

Why was/will mapping (be) done? (use more space as needed)
Species or resources of concern: _____
_____
_____
_____

Management issues of concern: _____
_____
_____
_____

How has/will the mapped data be(en) used? _____
_____
_____
_____

What habitat parameters were/will be mapped?
bathymetry substrate type

How are/will data (be) formatted, are/will they (be) accessible to others, and how were/will they (be) acquired?

__ Digital
(Describe) File Size, GIS Format
_____
_____
__ Hardcopy only

__ Web Accessible
__ CD
__ Disk
__ Not available
__ Cost $_____

__ Sidescan-Single Line
__ Sidescan - Mosaic
__ Multibeam – Single Line
__ Multibeam - Mosaic
__ Seismic Reflection Profiles

When were/will data (be) acquired? _____ (mmyy) through _____ (mmyy)

Identify Priority Blocks Pre-Workshop Results

ID Number	Institutions	Block #(s)	Prioirity (H/M/L)	Water Depth (range in ft)	Why Data Needed				Parameters		Resolution & Scale
					Ranking Criteria	Species or Resources of Concern	Management Issues of Concern	How would Mapped Data be Used?	Bathymetry	Substrate Type	
1-1	NMFS	122,203,218,223,243,403,425,433,441,451,458,466,474-475, 478,480,503, 526, 533,539,540,561,607,615,623 ,632, 684, 685,690,702,719,739,740, 861 ,871, 872,890,897	H	30m to 300m	used by commercial and recrational fishers, hab of particular concern	rockfishes, lingcod	overfishing, gear impacts	improve stock asses., identify no-take areas	yes	yes	1, 10, 100, 1000
1-2	MBNMS	446,456,464-466,472, 475,478-480,501-504,507-513,516-522, 526-530,532-536, 538-542,547-551,553-557,560-562,602-604	L	1m to 3000m	SNV, multiple & high use	several	/	to better monitor & manage the MBMS	yes	yes	varys
1-3	MBNMS	538-539,547-548	H	1ft to 100ft	SNV	intertidal & subtidal communities	Cal Trans road work and slide into the sea	monitoring and mgmt of slide areas, comp. of natural and human caused changes	yes	yes	10
1-4	MBNMS	526	H	1ft to 100ft	SNV, multiple & high use	several	Natural versus human caused changes to resources	better monitor and manage	yes	yes	10
1-5	MBNMS	518,527-530,536,537,546	M	1000ft to 4000ft	SNV, little known re: deep sea habitats	several	/	better monitor and manage	yes	yes	100
1-6	MBNMS	516	H	1ft to 20 ft	SNV, multiple & high use	several	Natural vs human caused changes to resources	better monitor and manage	yes	yes	10
1-7	F&G-central	457-458,549	H	6ft to 600 ft	PFA, nusery ground for numerous species.	many species incl. Rockfish	fishing nursery area and refugia, little to no near-shore mapping	Fishery independent data can be combined w/ mapping to look at hab & pop assesments	yes	yes	/
1-8	F&G-central	526	H	0ft to 100ft	Highly utilized, 30m+ already mapped. Poss. no take area.	nearshore rockfish	Multi-user conflict	Assist fish. mgmt.	yes	yes	1
1-9	F&G-central	539	H	132ft to 252ft	sport and comm. fishery. Some has been mapped.	Rockfish and lingcod	Sust. of commerical and recreational fisheries in the area	submersible and species compo from rec. fish. Combined = biomass est. for rockfish and lingcod, enhancing mgmt	yes	yes	/
1-10	F&G-central	547	H	0ft to 150ft	mapping exists except nearshore N and S of BCER. Fished and unfished areas could be studied.	nearshore rockfish	Multi-user conflict	Fish counts will be stratified based on habitat type to assist in managing fisheries.	yes	yes	10
1-11	F&G-central	615	H	30ft to 150ft	commerical nearhsore and recreational hook-and-line fishery.	"Live fish fishery"sport fishery species	Sustainable catches	Mapping + diving surveys =fish pop density estimates	yes	yes	
1-12	F&G-central	448-449	M	0ft to 90ft	reserve, de facto complete no-take area. Comparison to other exploited areas w/ similar habitat, SNV	Invertebrates, marine mammals, marine birds	Illegal take, fishing effects on perimeter. Candiatate for reserve expansion.	unique conditions= highly productive habitat. Compare to exploited similar habs.	yes	yes	/
1-13	F&G-central	472478	M	6ft to 240ft	Little known, important fishing area	.Kelp, rockfish, marine mammals, birds, etc	Significant fishing grounds and very little if any near-shore mapping has been done here.	Est. of hab types used for pop assesments. Est of hab available for restocking (abalone).	yes	yes	/

SNV = Significant Natural Value
PI = Political Interest
SSI = Used by species of special interest

ID Number	Institutions	Block #(s)	Prioirity (H/M/L)	Water Depth (range in ft)	Why Data Needed				Parameters		Resolution & Scale
					Ranking Criteria	Species or Resources of Concern	Management Issues of Concern	How would Mapped Data be Used?	Bathymetry	Substrate Type	
2-1	F&G-central	473	M	180ft to 280ft	frequently fished by the Princeton CPFF. Among most productive in depth range in central CA. High catch rate for rockfishes, esp. yellowtail.	Rockfishes and lingcod	Sustainability of commerical and recreational fisheries in the area	biomass estimates for nearshore rockfishes for improving the Nearshore Species Fishery Mgmt Plan.	yes	yes	/
2-2	F&G-central	518	M	300ft to 600ft	comm and rec. fishery, hab for bocaccio and canary rockfish. Need hab association data to expedite the rebuilding of stocks.	Rockfishes, particulary bocaccio, cowcod, and canary, and lingcod	Sustainability of commerical and recreational fisheries. Potential site for Marine Reserve	Habitat data from mapping will be used in conjunction with location based CPFF catch data to help determine species-habitat associations.	yes	yes	/
2-3	F&G-central	517	M	200ft to 300ft	High relief bottom/high biodiversity.	Lingcod and rockfishes.	Address the mandate of the Magnuson-Stevens Fishery Conservation and Management Act, specifically Essential Fish Habitat.	Surveyed by DELTA sub in 92-93. Incorportating hab. mapping with current and historical fishery data allows for eval. of an area intensively fished for approx. 100 years.	yes	yes	/
2-4	F&G-central	637	M	30ft to 150ft	This is an important area for both commercial nearshore and the recreational hook -and-line fisheries.	"Live fish fishery"sport fishery species.	Sustainable catches	Mapping +diving surveys, would identify habitat data that could be related to fish pop density. Est. total abundance.	yes	yes	
2-5	SCCWRP	683-691,706-713,728-730,749-750,744-745	H	30ft to 600ft	PI, designated areas, SNV, SSI, DFG current mngmt., areas of multiple use. Availability of existing habitat data	many verts and inverts.	A national marine sanctuary without a map of bottom habitat for fishery species within the sanctuary	To provide information on essential marine habitat for fisheries species within the sanctuary	yes	yes	10, 100
2-6	SCCWRP	651-657,664-667,678-691,701-703,707-713,718-721,728-730,737-740,749-751,744-745,756-758,760-763,801-802,806-808,821-822,842-843,860-861,859,877-879,916,812-815,829,849-850,871-872,889-890,866-868,897	M	15ft to 600ft	Areas of multiple use, includes designated areas, significant natural areas, areas used by species of special interest or concern.	rockfish, flatfish, abolone, red sea urchin, Ca. Market squid, etc, etc	Fisheries, essential fish habitat, contamination	To provide information on essential marine habitat for fisheries species within the sanctuary	yes	yes	100, 1000
2-7	Cal Trans	526-560	H	/	Resolve management conflicts - manage resources to complement and coordinate/ not conflict		mudslide repair, highways, disposal of soil, conflicts of soil is bad soil is good in marine environment	help direct appropriate methods for allowing sediment to enter marine environment where it is consistent w/ natural processes	/	/	/
2-8	USACE	301,455,488-489	M	0ft to 400ft	Multiple dredged material disposal sites, HPI, SSI, EFH, ESA critical habitat areas.	Federally listed, SSI, critical ESA hab.	Management of disposal sites	Planning purposes and evaluation, monitoring, and designation of dredged material disposal sites	yes	yes	10
2-9	USACE	469-470	M	8200ft to 9800ft	Dredged Material disposal site, EFH, ESA critical hab, designated area, SNV	Federally listed, SSI, critical ESA hab.	Management of dredged material disposal sites	As baseline data in monitoring, evaluation of dredged material disposal site, and designation of disposal sites	yes	yes	1

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SSI = Used by species of special interest

ID Number	Institutions	Block #(s)	Priority (H/M/L)	Water Depth (range in ft)	Why Data Needed				Parameters		Resolution & Scale
					Ranking Criteria	Species or Resources of Concern	Management Issues of Concern	How would Mapped Data be Used?	Bathymetry	Substrate Type	
3-1	USACE	108	M	80-100ft	Dredged Material disposal site, EFH, ESA critical hab, designated area, SNV	Federally listed, SSI, critical ESA hab.	Disposal site mgmt monitoring & designation	Monitoring, site evaluation, and site designation	yes	/	1
3-2	USACE	210	M	150-180ft	Dredged Material disposal site, EFH, ESA critical hab, designated area, SNV	Federally listed, SSI, critical ESA hab.	Disposal site mgmt monitoring & designation	Monitoring, site evaluation, and site designation	yes	YES	1
3-3	USACE	516	M	30-80ft	Dredged Material disposal site, EFH, ESA critical hab, designated area, SNV	Federally listed, SSI, critical ESA hab.	Management of dredged material disposal sites	As baseline data in monitoring, evaluation of dredged material disposal site, and designation of disposal sites	yes	yes	1
3-4	NRDC	446-450,455-459	H	/	SNV, SSI, area of conflict, close to coastal parkland	rockfish, nearshore fin-fish	overfishing, unique hab at risk	to help designate marine protected area via marine life protection act	/	/	100
3-5	NRDC	685-690	H	/	SNV,SSI, vulnerable to human impact	abalone, rockfish, sheephead, cabezon	overfishing	to help designate marine protected area via marine life protection act	/	/	/
3-6	NRDC	262-263,268-269,516,525-526,685-690,761-762,813-814	H	/	SNV, high species diversity/abundance, high use, potent. conflict, overfishing	/	/	/	/	/	100
3-7	F&G -South	745,765,829,850,867,871-872,889-891	/	0-100m	/	white abalone	identification & protection of EFH	location of optimal hab. for white abalone, poss collection for captive breeding program.	yes	yes	/
3-8	F&G North	108	H	0-90f	/	finfish, invertebrate	multi use conflict; near port	/	/	/	1
3-9	F&G North	133	H	0-10f	/	finfish, invertebrate	multi use conflict; near port; potential reserve	/	/	/	1
3-10	F&G North	262	H	0-50f	/	finfish, invertebrate	multi use conflict, near port, current reserve	/	/	/	1
3-11	F&G North	268	H	0-20f	/	finfish	multi use conflict, near port	/	/	/	1
3-12	F&G North	402	H	0-20f	/	finfish, invertebrate	multi use conflict; far port; potential reserve	/	/	/	1
3-13	F&G North	414	H/M	0-20f	/	finfish, invertebrate	current reserve, far port	/	/	/	1
3-14	F&G North	414	M	0-20f	/	finfish, invertebrate	current reserve, far port	/	/	/	1
3-15	F&G North	132	M		/	invertebrate	multiuse conflict, potential reserve, far port	/	/	/	1
3-16	F&G North	255	M	0-35 f	/	finfish	multiuse conflict, far port	/	/	/	1
3-17	F&G North	274	M	0-20f	/	finfish	far port	/	/	/	1

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PI = Political Interest
SSI = Used by species of special interest

ID Number	Institutions	Block #(s)	Priority (H/M/L)	Water Depth (range in ft)	Why Data Needed				Parameters		Resolution & Scale
					Ranking Criteria	Species or Resources of Concern	Management Issues of Concern	How would Mapped Data be Used?	Bathymetry	Substrate Type	
4-1	F&G North	402	M	0-30f	/	finfish, invertebrate	potential reserve, multi use conflict, near port	/	/	/	1
4-2	F&G North	431	M	0-20f	/	finfish, invertebrate	potential reserve, near port	/	/	/	1
4-3	F&G North	402/401	M	0-20f	/	invertebrate	potential reserve, far port	/	/	/	1
4-4	F&G North	114	L	0-40f	/	invertebrate	multiuse conflict, far port	/	/	/	1
4-5	F&G North	222,233	L		/		far port	/	/	/	1
4-6	F&G North	243	L		/	finfish, invertebrate	multiuse, near port	/	/	/	1
4-7	F&G North	268,274,408	L	0-20f	/	invertebrate	far port	/	/	/	1
4-8	UCSC	526,532,509	H	0-100m	mult use/conflict, designated areas, high use area, DFG current priority, SSI, availability of existing hab. Data (patchy, would extend existing mapping efforts)	many fish, mammals, birds	EFH: structure and dynamics	To calculate landscape habitat parameters.To guide the collection of geo-referenced bio data.	Yes	yes	10
4-9	UCSC	501,538-539,547,553	M	0-300ft	mult use/conflict, designated areas, high use area, DFG current priority, SSI, availability of existing hab. Data (patchy, would extend existing mapping efforts)	many fish, mammals, birds	EFH: structure and dynamics	To calculate landscape habitat parameters.To guide the collection of geo-referenced bio data.	yes	yes	10
4-10	USACE	114,120,126,201-202,216,227,234,242,248-249,407,414-415,422-423,430,438,447,553	M	0FT TO 1000FT	Dredged Material disposal site, EFH, ESA critical hab, designated area, SNV	Federally listed, SSI, critical ESA hab.	Disposal site mgmt monitoring & designation	Planning purposes, monitoring of dredged material disposal sites, and designation of disposal sites	yes	yes	1000

SNV = Significant Natural Value
PI = Political Interest
SSI = Used by species of special interest

Pre-Workshop Data Holdings Responses

ID Number	Institutions	Block #(s)	Water Depth (range in ft)	Why Data Needed			Parameters		Resolution & Scale	How data formatted	When data acquired
				Species or Resources of Concern	Management Issues of Concern	How would Mapped Data be Used?	Bathymetry	Substrate Type			
1-1	MBARI	136,204,205,210-212,225, 226,232,241, 455-457,464-467,473,474,476-480,483, 487,502-505,507-550,552-559,562-568 ,605,606,638, 639,643-646,649,653-660, 662,663,666-673,675,676, 682-695,716,717,776	1640ft to 9000ft	marine geo, chem, and bio	/	/	yes	/	/	dig., web?, CD, SSS-mos, muliti.mos., arc/info, geotiff	1998/ available end of yr 2000
1-2	NMFS	b508,517,523,547,637,643	30m to 350m	rockfishes, habitat w/in no-take areas	overfishing, ident. Refugia, EFH, baseline info	establish baseline w/ no take area, char. EFH	yes	yes	/	dig., SSS-single line, SSS-mos, SRP	93, 96, 99
1-3	DOC-oil&gas	643,644,651-659,664-668,671, 672,680, 683-686,689-691,701, 712,713,718-721, 738	/	oil wells and platforms	/		no	no	/	*GIS of oil wells and platform LOCATIONS ONLY	/
1-4	USGS	106,108-112,114-117,119-125,127-129,131,133-135,138,203-206,211-214,226,241,281,407-408,414-416,423-428,430,432-437,439-442,446-451,455-460,464-469,472-478,480,482,483, 487,501-503,516,517,525-528,543, 546,568,623-625,632,633,634,635,655, 679,680,681,683,690-694,701-714,717-723,725,726,728-735,738-740,743-746,749-755,757-760,762-766,802, 803,805,806,809-820,822,824,826,828-831,835-840,842-848,851,853-856,858, 860-866,869,871-876,878-882,886-894, 896,897			**See "Pre-Workshop Data Needs and Data Holdings Survey Results and Details" for description and maps**						
1-5	SCCWRP	651-657,664-667,678-691,701-703,707-713,718-721,728-730,737-740,749-751,744-745,756-758,760-763,801-802,806-808,821-822,842-843,860-861,854,877-879,916	16ft to 705ft	assess extent of sediment contamination and distribution of sediment grain size,demersal fishes, inverts and infauna	Extent of pollution impacts in southern California map. (southern Ca Bight Project & Southern Ca bight regional survey).	To assess extent of contamination and impacts to fish and invertebrate assemblages	yes	yes	/	digital, Web Accessible, Comma Delineated ASCII	1998, 1999
1-6	F&G North	431	0-20f	invertebrate	current reserve, near port	/	/	/	1	/	/
1-7	F&G North	441	20-50f	finfish	multi use conflict, far port	/	/	/	1	/	/
1-8	F&G North	228	3-30f		current reserve, far port	/	/	/	1	/	/
1-9	USGS	681,643,684,707-708,710-711	3-300ft	rockfish, squid, abalone, sea urchins	benthic fisheries habitat	being processed, interpreted, and ground truthed for benthic habitat	no	yes	/	digital, SSS-mos, SRP	1/98-12/00

Worksheet A: Identify Data Needs and Holdings for Blocks in Central Region

Block/ Institution	Water Depth (range in m)	Why Data Needed	Parameters		Resolution & Scale (Minimum Habitat Patch Size)	Potential Overlap (ID #)
			Bathymetry	Substrate Type		

Worksheet B: Identify Priority Blocks

Name:
Affiliation:

Block	Vote by Criteria									Total Vote	Priority Rank
	Fishery Management	Use Conflicts/ Impact Analysis	Baseline (Monitoring and Assessment)	Critical Natural Area or Biological "Hot Spot"	Special Species Located in Area	Political Importance	Safe Navigation				

Worksheet B: Identify Priority Blocks Post-Workshop Results

Block	Fishery Management	Use Conflicts/ Impact Analysis	Baseline (Monitoring and Assessment)	Critical Natural Area or Biological "Hot Spot"	Special Species Located in Area	Political Importance	reserve potential	zoogeographic importance	Safe Navigation	Oil Spills	EFH-HAPC	Total Vote	Priority Rank	Who voted
402	7	1	0	1	0	0			0	1	1	11	1	CDFG, UCSG, UCSC, UCSB, NMFS, (2)NWFSC/NMFS, NRC, NRDC, PMCC, OSPR
458	6	0	3	1	0	0	0	0	0	1		11	1	(2)NWFSC/NMFS, UCSB, MLML, (2)NMFS, UCSG, CDFG, CWHR, NRDC, OSPR
441	5	0	1	3	0	0	0	0	0	0		9	2	(2)NWFSC/NMFS, MLML, (3)NMFS, UCSB, USGS, NRDC
451	6	0	1	2	0	0	0	0	0	0		9	2	MLML, (2)NWFSC/NMFS, (2)NMFS, UCSG, PMLL, USGS, UCSB
526	0	3.5	4.5	0	0	0	0	0	0	0		8	3	(3)MSNMS, MLML, UCSC, F&G, USACE, CWHR
539	2	2.5	1.5	0	0	0	0	0	0	1		7	4	MBNMS, CAL-TRANS, NMFS, UCSG, UCSC, USGS, OSPR
403	6	0	0	0	0	0			0	0	0	6	5	(2)NMFS, (2)NMFSC/NMFS, UCSC, MLML
643	1.0	0.0	3.0	1.0	0.0	0.0	0	1	0.0			6	5	F&G, (3)OSPR, CWHR, USGS
644	2	1	0	1	0	2	0	0	0	0		6	5	MMS, UCSB, UCSC, MLML, USGS, NRDC
707	2.0	0.0	0.0	4.0	0.0	0.0	0	0	0.0			6	5	USGS, MLML, EDF, CINMS, UCSB, NMFS
719	2	1	0	0	0	0	0	0	3			6	5	(3)NOS, (2)OSPR, CWHR
all coastal	0	0	6	0	0	0			0	0	0	6	5	(6)USGS
222	5	0	0	0	0	0			0	0	0	5		OSPR, PMCC, NMFS, (2)NWFSC/NMFS

638	0	1	0	0	0	1	0	0	0	0		2		MMS, UCSB
670	0	2	0	0	0	0	0	0	0			2		NRC, MMS
671	0	2	0	0	0	0	0	0	0			2		NRC, MMS
672	0	2	0	0	0	0	0	0	0			2		NRC, MMS
673	0	2	0	0	0	0	0	0	0			2		NRC, MMS
687	0	1	0	1	0	0	0	0	0			2		UCSC, EDF
690	1.0	0.0	0.0	1.0	0.0	0.0	0	0	0.0			2		USGS, CINMS
712	0.0	0.0	0.0	2.0	0.0	0.0	0	0	0.0			2		EDF, CINMS
718	1	1	0	0	0	0	0	0	0			2		OSPR, CWHR
801	0	1	1	0	0	0	0	0	0			2		SCCWRP, OCSD
802	0	1	1	0	0	0	0	0	0			2		SCCWRP, OCSD
821	0	1	1	0	0	0	0	0	0			2		SCCWRP, OCSD
822	0	1	1	0	0	0	0	0	0			2		SCCWRP, OCSD
843	0	1	1	0	0	0	0	0	0			2		SCCWRP, OCSD
872	1	0	0	1	0	0	0	0	0			2		PMCC, NRDC
878	2	0	0	0	0	0	0	0	0			2		(2)OSPR
208	0	0.5	0	0	0	0			0	1	0	1.5		CCC, (.5)OSPR
138	0	0	1	0	0	0			0	0	0	1		MNFSC/NMFS
139	1	0	0	0	0	0			0	0	0	1		MNFSC/NMFS
228	0	0	1	0	0	0			0	0	0	1		F&G
255	1	0	0	0	0	0			0	0	0	1		CDFG
256	0	0	1	0	0	0			0	0	0	1		USGS
262	1	0	0	0	0	0			0	0	0	1		CDFG
263	0	0	1	0	0	0			0	0	0	1		USGS
268	1	0	0	0	0	0			0	0	0	1		CDFG
269	0	0	1	0	0	0			0	0	0	1		USGS
274	1	0	0	0	0	0			0	0	0	1		CDFG
410	0	1	0	0	0	0			0	0	0	1		NRC
419	0	1	0	0	0	0			0	0	0	1		NRC
510	0	0	1	0	0	0	0	0	0	0		1		NRDC
553	0	1	0	0	0	0	0	0	0	0		1		CAL-TRANS
554	0	1	0	0	0	0	0	0	0	0		1		CAL-TRANS
556	0	0	0	1	0	0	0	0	0	0		1		NRDC
560	0	1	0	0	0	0	0	0	0	0		1		CAL-TRANS
602	0	0	1	0	0	0	0	0	0	0		1		MBARI
604	0	0	1	0	0	0	0	0	0	0		1		MBARI
605	0	0	1	0	0	0	0	0	0	0		1		MBARI
606	0	0	1	0	0	0	0	0	0	0		1		MBARI
607	0	0	1	0	0	0	0	0	0	0		1		UCSG
611	0	0	1	0	0	0	0	0	0	0		1		MBARI
612	0	0	1	0	0	0	0	0	0	0		1		MBARI
613	0	0	1	0	0	0	0	0	0	0		1		MBARI
616	0	0	1	0	0	0	0	0	0	0		1		MBARI
619	0	0	1	0	0	0	0	0	0	0		1		MBARI
620	0	0	1	0	0	0	0	0	0	0		1		MBARI
625	0	0	1	0	0	0	0	0	0	0		1		MBARI
626	0	0	1	0	0	0	0	0	0	0		1		MBARI
627	0	0	1	0	0	0	0	0	0	0		1		MBARI
628	0	0	1	0	0	0	0	0	0	0		1		MBARI
629	0	0	1	0	0	0	0	0	0	0		1		MBARI
645	0	1	0	0	0	0	0	0	0	0		1		MMS
654	1	0	0	0	0	0	0	0	0			1		OSPR
667	0	1	0	0	0	0	0	0	0			1		MMS
668	0	1	0	0	0	0	0	0	0			1		(.5)NRC, (.5)MMS
679	0	1	0	0	0	0	0	0	0			1		CCC
680	0	1	0	0	0	0	0	0	0			1		CCC
688	0	0	0	1	0	0	0	0	0			1		CINMS
689	0	0	0	1	0	0	0	0	0			1		CINMS
704	0.0	0.5	0.5	0.0	0.0	0.0	0	0	0.0			1		SCCWRP

720	1	0	0	0	0	0	0	0	0			1		OSPR
727	0	1	0	0	0	0	0	0	0			1		PMCC
761	0	0	1	0	0	0	0	0	0			1		F&G
762	0	0	0	1	0	0	0	0	0			1		NRDC
765	0	0	0	1	0	0	0	0	0			1		CINMS
814	0	0	1	0	0	0	0	0	0			1		F&G
877	1	0	0	0	0	0	0	0	0			1		OSPR

Pre-workshop Results: Raw NEEDS Data

Block Number(s):	122,203,218,223,243,403,425,433,441,451,458,466,474-475, 478,480,503,526,533,539,540,561,607,615,623,632,684,685,690,702,719,739,740,861,871,872,890,897
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	20m to 300m
Ranking Criteria (needs):	area is used by species of concern, area is used by commerical and recreational fishery, some areas could be considered as habitat areas of particular concern
Species/Resource of Concern:	rockfishes, lingcod
Management Issues of Concern:	overfishing of groundfish stocks, impacts of fishing gear on habitats, use conflicts
How Would Mapped Data Be Used:	to imporve stock assessments, to identify areas of particular concern, to identify areas that are appropriate for no-take reserves
Bathymetry:	Yes
Substrate Type:	Yes
Resolution and Scale:	1, 10, 100, 1000ft
Institution:	NMFS

Block Number(s):	446,456,464-466,472, 475,478-480,501-504,507-513,516-522,526-530,532-536,538-542,547-551,553-557,560-562,602-604
Needs/Holdings:	Needs
Priority (needs):	Low- because of size, not importance
Water Depth:	1m to 3000m
Ranking Criteria (needs):	Designated area of significant natural value, multiple & high use
Species/Resource of Concern:	several
Management Issues of Concern:	/
How Would Mapped Data Be Used:	to better monitor & manage the MBNMS
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	vary
Institution:	MBNMS

Block Number(s):	538-539,547-548
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	1ft to 100ft
Ranking Criteria (needs):	Designated area of significant natural value
Species/Resource of Concern:	intertidal & subtidal communities
Management Issues of Concern:	Cal Trans road work and slides into the sea
How Would Mapped Data Be Used:	better monitoring and management of slide areas, comparison of natural and human caused changes
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	10
Institution:	MBNMS

Block Number(s):	526
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	1ft to 100ft
Ranking Criteria (needs):	Designated area of significant natural value, multiple & high use
Species/Resource of Concern:	several
Management Issues of Concern:	Natural versus human caused changes to resources
How Would Mapped Data Be Used:	better monitor and manage
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	10
Institution:	MBNMS

Block Number(s):	518,527-530,536,537,546
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	1000ft to 4000ft
Ranking Criteria (needs):	Designated area of significant natural value, very little is known about the deep sea habitats
Species/Resource of Concern:	several
Management Issues of Concern:	/
How Would Mapped Data Be Used:	better monitor and manage
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	100
Institution:	MBNMS

Block Number(s):	516
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	1ft to 20 ft
Ranking Criteria (needs):	Designated area of significant natural value, multiple & high use
Species/Resource of Concern:	several
Management Issues of Concern:	Natural versus human causes of change
How Would Mapped Data Be Used:	better monitor and manage
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	10
Institution:	MBNMS

Block Number(s):	457-459

Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	6ft to 600 ft
Ranking Criteria (needs):	Very little mapping has been done in the near-shore environment of the Farallon Islands, yet this area is a principal fishing area and serves as a nursery ground for numerous fisheries, avian species, and marine mammals. A better understanding and detailed mapping of this environment is an essential element to its management and ongoing research activities in this location.
Species/Resource of Concern:	rockfish, marine mammals, marine avian species, highly migratory fisheries, etc.
Management Issues of Concern:	Significant fishing grounds, nursery area, and refugia, very little to no near-shore mapping has been done here
How Would Mapped Data Be Used:	Fishery independent data can be combined w/ mapping to look at hab & pop assesments.
Bathymetry:	yes
Substrate Type:	yes- +seabed morph., slope, aspect, rugosity, grain size, surface sed, depth
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	526
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0ft to 100ft
Ranking Criteria (needs):	Highly utilized by divers, researchers, fishermen, tourists, students, MB Aquaruim, Hopkins. Deeper than 30m already mapped. Poss. no take area. Poss. partnerships/leverage Dept. funds
Species/Resource of Concern:	nearshore rockfish
Management Issues of Concern:	Multi-user conflict
How Would Mapped Data Be Used:	To enhance research and provide products to assist in managing fisheries. Fish counts can be stratified based on habitat type
Bathymetry:	yes
Substrate Type:	yes +seabed morphology, slope , aspect, rugosity, sediment grain size, surface sediment depth
Resolution and Scale:	1ft
Institution:	F&G-central

Block Number(s):	539
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	132ft to 252ft
Ranking Criteria (needs):	Large offshore rocky hab. supports sport and commercial fisheries. Submersible data available for groundtruthing. Some has been mapped. Mary Y. should be contacted prior to additional mapping
Species/Resource of Concern:	Rockfish (bocaccio) and lingcod - both PFMC threatened
Management Issues of Concern:	Rockfish densities/habitat associations are available from submersible surveys and species composition information is available from site specific recreational fishery sampling. By incorporating habitat mapping with available data this will allow biomass estimates for rockfish and lingcod to be obtained enhancing our mgmt of central CA fisheries
How Would Mapped Data Be Used:	Sustainability of commerical and recreational fisheries in the area
Bathymetry:	yes
Substrate Type:	yes-seabed morphology, slope ,rugosity, sediement grain size, surface sediment depth
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	547
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0ft to 150ft
Ranking Criteria (needs):	The offshore areas to BCER have recently been extensively mapped. The missing components are the nearshore areas to the north and south of BCER. With this additional mapping, fished and unfished areas could be studied for this region. The desired substrate/habitat classifications would be: rock(relief, boulder/flat), cobble, sand. The mapping scale/resolution should be at least 10m and preferably 1m
Species/Resource of Concern:	nearshore rockfish
Management Issues of Concern:	Multi-user conflict
How Would Mapped Data Be Used:	Fish counts will be stratified based on habitat type
Bathymetry:	yes
Substrate Type:	yes-seabed morphology, slope, aspect, rugosity.
Resolution and Scale:	10
Institution:	F&G-central

Block Number(s):	615
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	30ft to 150ft
Ranking Criteria (needs):	This is an important area for both the commerical nearhsore and the recreational hook-and-line fishery.
Species/Resource of Concern:	Nearshore fish included in "Live fish fishery" and nearshore sport fishery
Management Issues of Concern:	Sustainable catches
How Would Mapped Data Be Used:	Mapping associated with diving surveys, would identify habitat quality that could be related to fish population density. Catch estimates could then be related to estimates of total abundance
Bathymetry:	yes
Substrate Type:	yes+seabed morphology, rugosity
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	448-449
Needs/Holdings:	Needs
Priority (needs):	Meduim
Water Depth:	0ft to 90ft
Ranking Criteria (needs):	The area is currently a reserve, and although technically only recreational fishing is prohibited, it functions as a de facto complete no-take area. As such it is a valuable study for comparison to other exploited areas with similar habitat. The area is also an Area of special Biological Significance and a National Park Research Natural Area

Species/Resource of Concern:	Invertebrates, marine mammals, marine birds
Management Issues of Concern:	Illegal take within reserve area and fishing effects on reserve perimeter. Would be a good candiatate for reserve expansion as nearshore fishing pressure increases in future
How Would Mapped Data Be Used:	The granitic headland is greatly influenced by both climatic and oceanographic conditions. Jutting into the ocean at the northern edge fo the Gulf of the Farallons, an unique blend of condidtions creates a highly productive habitat. However, kelp beds, which are common to the North and South, are lacking here. The area has served as a baseline no-take area for almost three decades. Comparisons to similar exploited habitat types may yield allowable catch estimates for Fishery Mgmt Plans based on available habitat/biomass
Bathymetry:	yes
Substrate Type:	yes-seabed morphology slope, aspect, rugosity, algal cover,
Resolution and Scale:	/
Institution:	F&G Central

Block Number(s):	472,478
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	6ft to 240ft
Ranking Criteria (needs):	Little is known about the habitat in the near-shore areas of San Mateo County, yet this area is an important fishing area for both vertebrate and invertebrate species. It also provides habitat for numerous marine mammals and seabirds
Species/Resource of Concern:	Abalone, rockfish, marine mammals, marine avian species including migratory and residential species, surfperch and kelp
Management Issues of Concern:	Significant fishing grounds and very little if any near-shore mapping has been done here.
How Would Mapped Data Be Used:	The mapping efforts could be used to estimate the extent of various habitat types (eg., kelp beds, sandy botton, reefs) at various depth ranges. These estimates + fishery independent data can be used to estimate the potential habitat available for stocks that are being rebuilt, as well as population estimates
Bathymetry:	yes
Substrate Type:	yes-seabed morphology, slope, aspect, rugosity, sediment grain size
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	473
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	180ft to 280ft
Ranking Criteria (needs):	Within Deep Reef, this is the area most frequently fished by the Princeton CPFF fleet that Deb's project has monitored during the last eleven years.It also appears to be among the most productive areas in this depth range in central Caifornia. It has sustained a relatively high catch rate for rockfishes, particularly yellowtail, during that time. The mean length of sampled yellowtail rockfish in the general Deep Reef area has shown a
Species/Resource of Concern:	Rockfishes and lingcod
Management Issues of Concern:	Sustainability of commerical and recreational fisheries in the area
How Would Mapped Data Be Used:	If we could obtain submersible observations of species/habitat associations and densities of benthic oriented rockfishes, we could obtain biomass estimates for some species of nearshore rockfishes for use in improving the Nearshore Species Fishery Management Plan
Bathymetry:	yes
Substrate Type:	yes-seabed morphology, slope, rugosity
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	518
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	300ft to 600ft
Ranking Criteria (needs):	This in an important commercial and recreational fishing area and likely habitat for bocaccio and canary rockfishes, species which are or soon will be considered as over fished by NMFS. Rebuilding plans will be required for these species. Habitat association data for these species will be essential for expediting the rebuilding of these stocks, and mapping data would contribute to our knowledge of available habitat and species-specific habitat requirements. This area is adjacent to areas already mapped by Mary Yoklavich's reasearch project which, among other things, is documenting habitat associations for important rockfish
Species/Resource of Concern:	Rockfishes, particulary bocaccio, cowcod, and canary, and lingcod
Management Issues of Concern:	Sustainability of commerical and recreational fisheries in the area. Potential site for Marine Reserve, particularly in relation to protecting above species as part of NMFS-mandated rebuilding plan
How Would Mapped Data Be Used:	Habitat data from mapping will be used in conjunction with location based CPFF catch data to help determine species-habitat associations
Bathymetry:	yes
Substrate Type:	yes+seabed morphology, slope, aspect, rugosity, sediment grain size, surface sediment depth,
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	517
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	200ft to 300ft
Ranking Criteria (needs):	Portuguese Ledge is of historical importance in relation to commercial and recreational fisheries. This area has been fished since the late 1800's, hence name of the reef system. From the 1950's on it became an important location for CPFVs fishing out of Monterey and Santa Cruz. Historically, it was a productive area for lingcod, bocaccio, yellowtail rockfish, and a number of other species of benthic rockfishes. This area has been surveyed by the research submersible DELTA in 92 and 93. The bottom topography of this area is known to be of high relief; DELTA observations confirmed the area to be highly complex. The high biodiversity found on this deep-reef system is undoubtedly related to the biocomplexity. Data are available from DELTA surveys (14 quantitative transects plus qualitative observations), CPFV data, and historical documentation.

Species/Resource of Concern:	Lingcod and rockfishes. Twnety-eight species of fishes, which included 20 rockfish species, were identified form DELTA observations in 1992 and 1993. Lingcod, bocaccio, and yellowtail rockfish were dominant species
Management Issues of Concern:	Address the mandate of the Magnuson-Stevens Fishery Conservation and Management Act, specifically Essential Fish Habitat
How Would Mapped Data Be Used:	Incorportating habitat mapping with current and hsitorical fishery data for this area will allow evaluation of an area that has been intensively fished for approximatley 100 years
Bathymetry:	yes
Substrate Type:	yes-seabed morphology
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	637
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	30ft to 150ft
Ranking Criteria (needs):	This is an important area for both commercial nearshore and the recreational hook -and-line fisheries.
Species/Resource of Concern:	Nearshore fish included in "Live fish fishery" and nearshore sport fishery.
Management Issues of Concern:	Sustainable catches
How Would Mapped Data Be Used:	Mapping associated with diving surveys, would identify habitat quality that could be related to fish population density. Catch estimates could then be related to estimates of total abundance
Bathymetry:	yes
Substrate Type:	yes-seabed morphology, rugosity
Resolution and Scale:	/
Institution:	F&G-central

Block Number(s):	683-691,706-713,728-730,749-750,744-745
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	30ft to 600ft
Ranking Criteria (needs):	Areas of high profile political interest, designated areas, significant natural areas, area used by species of special interest, DFG current mgmt., areas of multiple use, availability of existing habitat data
Species/Resource of Concern:	CA. Mkt squid, abalone species, red sea urchin, ridgeback rock shrimp, spot prawn, CA sea cucumber, CA spiny lobster, white seabass, Dungeness crab, CA Halibut, rockfish
Management Issues of Concern:	A national marine sanctuary without a map of bottom habitats or information on EFH.
How Would Mapped Data Be Used:	To provide information on essential marine habitat for fisheries species within the sanctuary
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	10, 100
Institution:	Southern CA Coastal Water Research Project - Larry Cooper

Block Number(s):	651-657,664-667,678-691,701-703,707-713,718-721,728-730,737-740,749-751,744-745,756-758,760-763,801-802,806-808,821-822,842-843,860-861,859,877-879,916,812-815,829,849-850,871-872,889-890,866-868,897
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	15ft to 600ft
Ranking Criteria (needs):	Areas of multiple use, includes designated areas, significant natural areas, areas used by species of special interest or concern
Species/Resource of Concern:	rockfish, flatfish, abolone, red sea urchin, Ca. Market squid, etc, etc
Management Issues of Concern:	Fisheries, essential fish habitat, contamination
How Would Mapped Data Be Used:	To provide maps of EFH for fishery species.
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	100, 1000
Institution:	Southern Ca Coastal Water Research Project - Larry Cooper

Block Number(s):	526-560
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	/
Ranking Criteria (needs):	Resolve management conflicts - manage resources to complement and coordinate/ not conflict
Species/Resource of Concern:	/
Management Issues of Concern:	mudslide repair/ highways/disposal of soil, conflicts of "soil is bad" "soil is good" in marine environment
How Would Mapped Data Be Used:	help direct appropriate methods for allowing sediment to enter marine environment where it is consistent w/ natural processes
Bathymetry:	?
Substrate Type:	?
Resolution and Scale:	?
Institution:	Cal Trans - Aileen Loe

Block Number(s):	301,455,488-489
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0ft to 400ft
Ranking Criteria (needs):	Multiple dredged material disposal sites, area of high political interest, Areas used by species of special interest or concern, essential fish habitat, ESA critical habitat, Significant natural area
Species/Resource of Concern:	Federally listed, proposed for listing, and species of concern, as well as any critical habitat areas designated or proposed under the endangered species act
Management Issues of Concern:	Management of disposal sites
How Would Mapped Data Be Used:	Planning purposes and evaluation and monitoring of dredged material disposal sites, and designation of disposal sites
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	10
Institution:	US Army Corps of Engineers - Peter LaCivita

Block Number(s):	469-470
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	8200ft to 9800ft
Ranking Criteria (needs):	Dredged Material disposal site, essential fish habitat, ESA critical habitat, designated area, significant natural area
Species/Resource of Concern:	Federally listed, proposed for listing, and species of concern, as well as any critical habitat areas designated or proposed under the endangered species act
Management Issues of Concern:	Management of dredged material disposal sites
How Would Mapped Data Be Used:	As baseline data in monitoring, evaluation of dredged material disposal site, and designation of disposal sites
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	1ft
Institution:	US Army Corps of Engineers - Peter LaCivita

Block Number(s):	210
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	150FT TO 180FT
Ranking Criteria (needs):	Dredged Material disposal site, essential fish habitat, ESA critical habitat, designated area
Species/Resource of Concern:	Federally listed, proposed for listing, and species of concern, as well as any critical habitat areas designated or proposed under the endangered species act
Management Issues of Concern:	Management of disposal site
How Would Mapped Data Be Used:	Monitoring, site evaluation, and site designation
Bathymetry:	yes
Substrate Type:	Yes
Resolution and Scale:	1
Institution:	US Army Corps of Engineers - Peter LaCivita

Block Number(s):	516
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	30ft to 80ft
Ranking Criteria (needs):	Dredged Material disposal site, essential fish habitat, ESA critical habitat, designated area, significant natural area
Species/Resource of Concern:	Federally listed, proposed for listing, and species of concern, as well as any critical habitat areas designated or proposed under the endangered species act
Management Issues of Concern:	Management of dredged material disposal sites
How Would Mapped Data Be Used:	As baseline data in monitoring, evaluation of dredged material disposal site, and designation of disposal sites
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	1ft
Institution:	US Army Corps of Engineers - Peter LaCivita

Block Number(s):	114,120,126,201-202,216-217,227,234,242,248-249,407,414-415,422-423,430,438,447,553
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0ft to 1000ft
Ranking Criteria (needs):	EFH, ESA critical habitat, designated area, significant natural areas, areas of high profile political interest, areas used by species of special concern, dredged material disposal sites
Species/Resource of Concern:	Federally listed, proposed for listing, and species of concern, as well as any critical habitat areas designated or proposed under the endangered species act
Management Issues of Concern:	mgmt of disposal sites and site designation
How Would Mapped Data Be Used:	Planning purposes, monitoring and designation of dredged material disposal sites
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	1000ft
Institution:	US Army Corps of Engineers - Peter LaCivita

Block Number(s):	446-450,455-459
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	/
Ranking Criteria (needs):	significant natural areas (underwater pinnacles), areas used by species of concern, areas of conflict, proximity to coastal parkland
Species/Resource of Concern:	rockfish, other nearshore fin fish
Management Issues of Concern:	Excess fishing pressures, unique and vulnerable habitat at risk, opportunity to create significant marine protected area
How Would Mapped Data Be Used:	To help designate marine life reserve or protected area via marine life protection act process
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	100ft
Institution:	Natural Resources Defense Council - Karen Garrison

Block Number(s):	685-690
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	/
Ranking Criteria (needs):	significant natural areas (underwater pinnacles), areas used by species of concern, vulnerable to human impact
Species/Resource of Concern:	abalone (esp. white), rockfish, sheephead, cabezon)
Management Issues of Concern:	overfishing
How Would Mapped Data Be Used:	marine life protection act

Bathymetry:	?
Substrate Type:	?
Resolution and Scale:	?
Institution:	Natural Resources Defense Council - Karen Garrison

Block Number(s):	262-263,268-269,516,525-526,685-690,761-762,813-814
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	/
Ranking Criteria (needs):	Significant natural area with high habitat value in terms of species diversity and abundance, high use, potential conflict, vulnerability to pollution, storms, overfishing
Species/Resource of Concern:	/
Management Issues of Concern:	/
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	100ft
Institution:	Natural Resources Defense Council - Karen Garrison

Block Number(s):	745,765,829,850,867,871-872,889-891
Needs/Holdings:	Needs
Priority (needs):	/
Water Depth:	O to 100m
Ranking Criteria (needs):	/
Species/Resource of Concern:	white abalone
Management Issues of Concern:	identification and protection of EFH
How Would Mapped Data Be Used:	Location of optimal hab. for white abalone and possible collection for captive breeding program. Future plans include locating areas for out planting individuals to restore populations. When surveys completed, data can be used to determine area of white abalone habitat. This data would also be useful to other species, e.g. rockfishes
Bathymetry:	yes
Substrate Type:	yes +seabed morphology, rugosity, algal cover
Resolution and Scale:	/
Institution:	Fish and Game south

Block Number(s):	108
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0-90 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	multi use conflict; near port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	133
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0-10 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrate
Management Issues of Concern:	multi use conflict; near port; potential reserve
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	262
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0-50 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	multi use conflict, near port, current reserve
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	268
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish
Management Issues of Concern:	multi use conflict, near port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	402
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	multi use conflict; far port; potential reserve
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	414
Needs/Holdings:	Needs
Priority (needs):	High/Medium
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	current reserve, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	441
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	20-50 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish
Management Issues of Concern:	multi use conflict, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	414
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	current reserve, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	132
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	/
Ranking Criteria (needs):	/
Species/Resource of Concern:	invertebrates
Management Issues of Concern:	multiuse conflict, potential reserve, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1
Institution:	Fish and Game - North

Block Number(s):	255
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-35 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish
Management Issues of Concern:	multiuse conflict, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	274
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish
Management Issues of Concern:	far port

How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	402
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-30 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	potential reserve, multi use conflict, near port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	431
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	potential reserve, near port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	402/401
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	invertebrates
Management Issues of Concern:	potential reserve, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	114
Needs/Holdings:	Needs
Priority (needs):	Low
Water Depth:	0-40 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	invertebrates
Management Issues of Concern:	multiuse conflict, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	222,233
Needs/Holdings:	Needs
Priority (needs):	Low
Water Depth:	/
Ranking Criteria (needs):	/
Species/Resource of Concern:	/
Management Issues of Concern:	far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	243
Needs/Holdings:	Needs
Priority (needs):	Low
Water Depth:	/
Ranking Criteria (needs):	/
Species/Resource of Concern:	finfish, invertebrates
Management Issues of Concern:	multiuse, near port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	268, 274,408
Needs/Holdings:	Needs

Priority (needs):	Low
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	/
Species/Resource of Concern:	invertebrate
Management Issues of Concern:	far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North

Block Number(s):	526,532,509
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth:	0-100m
Ranking Criteria (needs):	1)areas of mult use/conflict (tourism, kelp harvesting, live fish fishery, recreational fishery, urbanization, research) 2) designated areas (harvest area, sanctuary, marine protected area 3)importance of habitat to coastal ecosystem (nursery grounds, high productivity, larval source) 4) high use area (high recreational concentration) 5)DFG current mgmt. priorities (marine protected habitat, EFH) 6)Area used by species of special interest or concern (economically important macroalgae, invertibrates and groundfish; species currently at low stock size; e.g., giant kelp, sea urchins, abalone, several rockfish species, lingcod, and coastal salmonid runs) 7) availability of existing hab. Data (patchy, would extend existing mapping efforts)
Species/Resource of Concern:	kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (general), sea otters & other marine mammals (marine Mammal Act)
Management Issues of Concern:	1)EFH: structure and dynamics 2)marine reserve design: location, size, landscape comp., fisheries enhancement potential (larval dispersal and spillover) 3)distinguishing anthropogenic from natural causes of variability (-relating habitat characteristics and nearshore oceanographic features to reef process and pattern, relating human impacts to reef process and pattern) 4)kelp harvesting, live fish fishery, recreational fishery.
How Would Mapped Data Be Used:	1)To calculate landscape habitat parameters at a range of biologically relevant scales (micro-mesohabitat scales) 2) to guide the collection of geo-referenced biological data (biogenic habitat, invertibrates, fish) 3) to quantify spatially-explicit linkages btwn reef structure and ecosystem structure at multiple scales. 4)To guide collection of hydrographic data for modelling effects of water movement on settlement of macroalgae, inverts and fish at macro-mesohabitat scales. 5)To incorporate our biotic and hydrographic info into the GIS of the habitat maps in order to facilitate applied use by resource managers.
Bathymetry:	Yes
Substrate Type:	YES
Resolution and Scale:	10by10
Institution:	UC Santa Cruz- Dept of Biology

Block Number(s):	501,538-539,547,553
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-300ft
Ranking Criteria (needs):	1)areas of mult use/conflict (tourism, kelp harvesting, live fish fishery, recreational fishery, urbanization, research) 2) designated areas (harvest area, sanctuary, marine protected area 3)importance of habitat to coastal ecosystem (nursery grounds, high productivity, larval source) 4) high use area (high recreational concentration) 5)DFG current mgmt. priorities (marine protected habitat, EFH) 6)Area used by species of special interest or concern (economically important macroalgae, invertibrates and groundfish; species currently at low stock size; e.g., giant kelp, sea urchins, abalone, several rockfish species, lingcod, and
Species/Resource of Concern:	kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (general), sea otters & other marine mammals (marine Mammal Act)
Management Issues of Concern:	1)EFH: structure and dynamics 2)marine reserve design: location, size, landscape comp., fisheries enhancement potential (larval dispersal and spillover) 3)distinguishing anthropogenic from natural causes of variability (-relating habitat characteristics and nearshore oceanographic features to reef process and pattern, relating human impacts to reef process and pattern) 4)kelp harvesting, live fish fishery, recreational fishery.
How Would Mapped Data Be Used:	1)To calculate landscape habitat parameters at a range of biologically relevant scales (micro-mesohabitat scales) 2) to guide the collection of geo-referenced biological data (biogenic habitat, invertibrates, fish) 3) to quantify spatially-explicit linkages btwn reef structure and ecosystem structure at multiple scales. 4)To guide collection of hydrographic data for modelling effects of water movement on settlement of macroalgae, inverts and fish at macro-mesohabitat scales. 5)To incorporate our biotic and hydrographic info into the GIS of the habitat maps in order to facilitate applied use by resource managers.
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	10X10
Institution:	UC Santa Cruz- Dept of Biology

Block Number(s):	108
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	80FT TO 100FT
Ranking Criteria (needs):	Dredged Material disposal site, essential fish habitat, ESA critical habitat, designated area, significant natural area
Species/Resource of Concern:	Federally listed, proposed for listing, and species of concern, as well as any critical habitat areas designated or proposed under the endangered species act
Management Issues of Concern:	Disposal site mgmt monitoring and designation
How Would Mapped Data Be Used:	Monitoring, site evaluation, and site designation
Bathymetry:	yes
Substrate Type:	no
Resolution and Scale:	1ft
Institution:	US Army Corps of Engineers - Peter LaCivita

Pre-workshop Results: Raw HOLDINGS Data

Block Number(s):	136,204,205,210-212,225, 226,232,241,455-457,464-467,473,474,476-480,483, 487,502-505,507-550,552-559,562-568,605,606,638, 639,643-646,649,653-660, 662,663,666-673,675,676, 682-
Needs/Holdings:	Holding
Water Depth:	1640ft to 9000ft
Species/Resource of Concern:	marine geology, biology and chemistry
Management Issues of Concern:	-
How Would Mapped Data Be Used:	-
Bathymetry:	yes
Substrate Type:	-
Resolution and Scale:	-
Institution:	MBARI
How data formatted (holdings):	digital, web accessible-?, CD, sidescan-mosaic, mulitbeam mosaic, arc/info grids, geotiff
When data aquired (holdings):	1998/ available end of yr 2000

Block Number(s):	508, 517, 526, 547, 637, 643
Needs/Holdings:	Holdings
Water Depth:	30m to 350m
Species/Resource of Concern:	rockfishes, habitat w/in no-take areas
Management Issues of Concern:	1)overfishing, 2)identification of natural refugia, 3)characterization of EFH, 4)baseline information on marine reserves
How Would Mapped Data Be Used:	1)establish baselines on species & habitats associated w/ no-take areas, 2)characterize EFH for rockfish assemblages, in particular
Bathymetry:	Yes
Substrate Type:	Yes
Resolution and Scale:	-
Institution:	NMFS
How data formatted (holdings):	digital, sidescan-single line, sidescan-mosaic, seismic reflection profiles, hardcopy only
When data aquired (holdings):	93, 96, 99

Block Number(s):	643,644,651-659,664-668,671,672,680,683-686,689-691,701,712,713,718-721,738
Needs/Holdings:	Holdings
Water Depth:	/
Species/Resource of Concern:	GIS of oil wells and platform locations
Management Issues of Concern:	/
How Would Mapped Data Be Used:	/
Bathymetry:	no - only GIS of oil and well platform locations
Substrate Type:	no - only GIS of oil and well platform locations
Resolution and Scale:	/
Institution:	DOC-oil&gas
How data formatted (holdings):	GIS
When data aquired (holdings):	/

Block Number(s):	106,108-112,114-117,119-125,127-129,131,133-135,138,203-206,211-214,226,241,281,407-408,414-416,423-428,430,432-437,439-442,446-451,455-460,464-469,472-478,480,482,483,487,501-503,516,517,525,528,543,546,568,623,625,632,633,634,635,655,679,680,681,683,690
Needs/Holdings:	Holdings
Water Depth:	See USGS section of folder
Species/Resource of Concern:	for details and related maps
Management Issues of Concern:	
How Would Mapped Data Be Used:	
Bathymetry:	
Substrate Type:	
Resolution and Scale:	
Institution:	USGS
How data formatted (holdings):	
When data aquired (holdings):	

Block Number(s):	651-657,664-667,678-691,701-703,707-713,718-721,728-730,737-740,749-751,744-745,756-758,760-763,801-802,806-808,821-822,842-843,860-861,858,877-879,916
Needs/Holdings:	Holdings
Water Depth:	16ft to 705ft
Species/Resource of Concern:	To assess extent of sediment contamination and distribution of sediment grain size, assessment of demersal fishes, invertebrates and infauna
Management Issues of Concern:	Extent of pollution impacts in Southern California map. (Southern CA Bight Pilot Project -1994 (SCBPP) & Southern Ca Bight Regional Survey 1998 (Bight '98))
How Would Mapped Data Be Used:	To assess extent of contamination and impacts to fish and invertebrate assemblages.
Bathymetry:	yes
Substrate Type:	yes
Resolution and Scale:	/
Institution:	Southern Ca Coastal Water Research Project - Larry Cooper
How data formatted (holdings):	digital, Web Accessible, Comma Delineated ASCII
When data aquired (holdings):	1998, 1999

Block Number(s):	431
Needs/Holdings:	Holdings
Water Depth:	0-20 fathoms
Species/Resource of Concern:	invertebrate
Management Issues of Concern:	current reserve, near port

How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North
How data formatted (holdings):	n/a
When data aquired (holdings):	n/a

Block Number(s):	228
Needs/Holdings:	Holdings
Water Depth:	3-30 fathoms
Species/Resource of Concern:	/
Management Issues of Concern:	current reserve, far port
How Would Mapped Data Be Used:	/
Bathymetry:	/
Substrate Type:	/
Resolution and Scale:	1ft
Institution:	Fish and Game - North
How data formatted (holdings):	n/a
When data aquired (holdings):	n/a

Block Number(s):	681,643,684,707-708,710-711
Needs/Holdings:	Holdings
Water Depth:	3-300ft
Species/Resource of Concern:	rockfish, squid, abalone, sea urchins
Management Issues of Concern:	benthic fisheries habitat
How Would Mapped Data Be Used:	is being processed, interpreted, and groundtruthed for benthic habitat
Bathymetry:	no
Substrate Type:	yes
Resolution and Scale:	/
Institution:	USGS
How data formatted (holdings):	digital, sidescan mosaic, seismic reflection profiles
When data aquired (holdings):	1/98-12/00