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