Pre-workshop Results: Raw NEEDS Data

Dia de Novele anta	400 000 040 000 040 400 405 400 444 454 45
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 babitat areas of particular concern.
Species/Resource of Concern:	rockfishes, lingcod
Management Issues of Concern: How Would Mapped Data Be Used:	overfishing of groundfish stocks, impacts of fishing gear on habitats, use conflicts
now 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): Water Depth:	Low- because of size, not importance 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
Bathvmetrv: Substrate Type:	ves ves
Substrate Type: Resolution and Scale:	vary
Institution:	MBNMS
Plack Number(s):	E20 E20 E47 E40
Block Number(s): Needs/Holdings:	538-539.547-548 Needs
Priority (needs):	High
Water Depth:	1ft to 100ft
Ranking Criteria (needs):	Desginated area of significant natural value
Species/Resource of Concern:	intertidal & subtidal communities
Management Issues of Concern: How Would Mapped Data Be Used:	Cal Trans road work and slides into the sea better monitoring and management of slide areas, comparison of natural and human caused changes
Bathymetry:	ves
Substrate Type:	Ves
Resolution and Scale:	10
Institution:	MBNMS
Block Number(s): Needs/Holdings:	526 Needs
Block Number(s); Needs/Holdings; Priority (needs);	526 Needs High
Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	526 Needs High 1ft to 100ft
Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs):	526 Needs High 1ft to 100ft Designated area of significant natural value, multiple & high use
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Needs/Holdings:	Needs
	High
Priority (needs):	
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
	manimals. A better understanding and detailed mapping of this environment is an essential element to its
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
management issues of concern.	
	here
How Would Mapped Data Be Used:	Fisherv independent data can be combined w/ mapping to look at hab & pop assesments.
Bathvmetrv:	ves
Substrate Type:	ves- +seabed morph., slope, aspect, rugosity, grain size, surface sed, depth
Resolution and Scale:	/
Institution:	F&G-central
Block Number(s):	526
	Needs
Needs/Holdings:	
Priority (needs):	High
Water Depth:	Oft to 100ft
Ranking Criteria (needs):	Highly utilized by divers, researchers, fishermen, tourists, students, MB Aquaruim, Hopkins. Deeper than 30m
	already manned. 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
now would mapped Data be Used.	
Deth et	hased on habitat tyne
Bathymetry:	ves
Substrate Type:	ves +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 manned. Mary Y. should be contacted prior to additional manning
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
management issues of contern.	
	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
	control OA fishering
How Would Mapped Data Be Used:	Sustainability of commerical and recreational fisheries in the area
Bathvmetrv:	ves
Bathvmetrv: Substrate Type:	Ives ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth
Substrate Type:	
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Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings:	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth [F&G-central] 547 Needs
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs):	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth // F&G-central 547 Needs High
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth // F&G-central 547 Needs High Oft to 150ft
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs):	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth // F&G-central 547 Needs High
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth // F&G-central 547 Needs High Oft to 150ft The offshore areas to BCER have recently been extensively mapped. The missing components are the
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth / F&G-central 547 Needs High Oft to 150ft 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
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth // F&G-central 547 Needs High Oft to 150ft The offshore areas to BCER have recently been extensively mapped. The missing components are the
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Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern:	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth // F&G-central 547 Needs High Oft to 150ft 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, nearshore rockfish
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern:	ves-seabed morphology, slope .rugosity, sediement grain size, surface sediment depth // F&G-central 547 Needs High Oft to 150ft 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, nearshore rockfish Multi-user conflict
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Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Bathymetry: Substrate Type: Resolution and Scale: Institution:	ves-seabed morphology, slope ,rugosity, sediement grain size, surface sediment depth F&G-central 547 Needs High 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, mearshore rockfish Multi-user conflict Fish counts will be stratified based on habitat type yes yes-seabed morphology, slope, aspect, rugosity. 10 F&G-central 615 Needs High High as an important area for both the commercial nearhsore and the recreational hook-and-line fishery. Nearshore fish included in "Live fish fishery" and nearshore sport fishery Sustainable catches 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 yes yes Yes Yes Yes Yes Yes Ye
Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Bathymetry: Substrate Type: Resolution and Scale: Institution:	ves-seabed morphology, slope _rugosity, sediement grain size, surface sediment depth / F&G-central

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 pearshore 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
Bathvmetrv:	ves
Substrate Type:	ves-seabed morpholgy 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
	issimg area to both vertebrate and invertebrate species. It also provides riabilation numerous manne
Species/Resource of Concern:	Abalone, rockfish, marine mammals, marine avian species including migratory and residential species,
opecies/itesource of concern.	surfnerch and keln
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
now would mapped Data be Used:	
1	botton, reefs) at various depth ranges. These estimates + fishery independent data can be used to estimate
Bathymotry:	the natential habitet available for stacks that are being rebuilt, as well as population estimates
Bathymetry: Substrate Type:	ves
	ves-seabed morphology, slope, aspect, rugosity, sediment grain size
Resolution and Scale:	V
Institution:	F&G-central
Block Number(s):	473
Needs/Holdinas:	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
The stream and production and the stream and the st	rockfishes, we could obtain biomass estimates for some species of nearshore rockfishes for use in improving
	the Marchere Species Eichery Management Dian
Bathymetry:	ves
Substrate Type:	ves-seabed morphology, slope, rugosity
Resolution and Scale:	/
Institution:	F&G-central
mattution.	n ac contain
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
1	rockfishes, species which are or soon will be considered as over fished by NMFS. Rebuilding plans will be
1	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
1	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 NMES-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:	ves
Substrate Type:	ves+seabed morphology, slope, aspect, rugosity, sediment grain size, surface sediment depth.
Resolution and Scale:	V
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
manning Ontona (needs).	
1	has been fished since the late 1800's, hence name of the reef system. From the 1950's on it became an
1	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 the
	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
Management Issues of Concern:	Address the mandate of the Magnuson-Stevens Fishery Conservation and Management Act, specifically
How Would Manned Data Ba Used	Essential Fish Habitat
How Would Mapped Data Be Used:	Incorportating habitat mapping with current and historical fishery data for this area will allow evaluation of an area that has been intensively fished for approximatley 100 years
Bathymetry:	ves
Substrate Type:	ves-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): Species/Resource of Concern:	This is an important area for both commercial nearshore and the recreational hook -and-line fisheries. 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
Bathvmetrv: Substrate Type:	ves-seabed morphology, rugosity
Resolution and Scale:	//
Institution:	F&G-central
Disab North or/s)	1000 004 700 740 700 700 740 750 744 745
Block Number(s): Needs/Holdings:	683-691.706-713.728-730.749-750.744-745 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
Species/Resource of Concern:	special interest. DEG current mamt_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
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:	ves
Substrate Type: Resolution and Scale:	ves 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
Noodo/Holdingo	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: Priority (needs):	Needs
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Priority (needs):	Needs Medium 15ft to 600ft Areas of multiple use, includes designated areas, significant natural areas, areas used by species of special
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Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution:	Needs Medium 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 souid, etc. etc Fisheries, essential fish habitat, contamination To provide maps of EFH for fishery species. Ves
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Priority (needs): Water Deoth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Deoth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution:	Needs Medium 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 souid, etc. etc Fisheries, essential fish habitat, contamination To provide maps of EFH for fishery species. Ves
Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Priority (needs): Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 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 maps of EFH for fishery species. yes yes 100, 1000 Southern Ca Coastal Water Research Project - Larry Cooper 526-560 Needs High // 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 ? ? ? Cal Trans - Aileen Loe 301.455.488-489 Needs Medium Oft to 400ft
Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs):	Needs Medium 15ft to 600ft Areas of multiple use, includes designated areas, significant natural areas, areas used by species of special interest no concern rockfish, flatfish, abolone, red sea urchin. Ca. Market squid, etc. etc Fisheries, essential fish habitat, contamination To provide maps of EFH for fishery species, ves ves 100, 1000 Southern Ca Coastal Water Research Project - Larry Cooper
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Block Number(s):	469-470
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	8200ft to 9800ft
water Depth:	
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 leaves of Consern:	Management of dredged material disposal sites
Management Issues of Concern:	
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:	ves
Resolution and Scale:	1ft
Institution:	US Army Corps of Engineers - Peter LaCivita
Block Number(s):	210
Needs/Holdings:	Needs
	Medium
Priority (needs):	
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
I .	or proposed under the endangered species act
Management Issues of Concern:	Management of disposal site
management issues of Concern:	
How Would Mapped Data Be Used:	Monitoring, site evaluation, and site designation
Bathymetry:	ves
Substrate Type:	Yes
Resolution and Scale:	11
Institution:	US Army Corps of Engineers - Peter LaCivita
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Block Number(s):	516
Needs/Holdinas:	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
Bathvmetry:	ves
Substrate Type:	ves
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Resolution and Scale:	1ft
Resolution and Scale: Institution:	1ft US Army Corps of Engineers - Peter LaCivita
Institution:	US Army Corps of Engineers - Peter LaCivita
Institution: Block Number(s):	US Army Corps of Engineers - Peter LaCivita 114,120,126,201-202,216-217,227,234,242,248-249,407,414-415,422-423,430,438,447,553
Institution: Block Number(s): Needs/Holdings:	US Army Corps of Engineers - Peter LaCivita 114.120.126.201-202.216-217.227.234.242.248-249.407.414-415.422-423.430.438.447.553 Needs
Institution: Block Number(s):	US Army Corps of Engineers - Peter LaCivita 114,120,126,201-202,216-217,227,234,242,248-249,407,414-415,422-423,430,438,447,553
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Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	US Army Corps of Engineers - Peter LaCivita 114.120.126.201-202.216-217,227.234.242.248-249.407.414-415.422-423.430.438.447.553 Needs Medium 0ft to 1000ft
Institution: Block Number(s): Needs/Holdings: Priority (needs):	US Army Corps of Engineers - Peter LaCivita 114.120.126.201-202.216-217.227.234.242.248-249.407.414-415.422-423.430.438.447.553 Needs Medium Off to 1000ft EFH, ESA critical habitat, designated area, significant natural areas, areas of high profile political interest,
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Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs):	US Army Corps of Engineers - Peter LaCivita 114.120.126.201-202.216-217.227.234.242.248-249.407.414-415.422-423.430.438.447.553 Needs Medium Off to 1000ft EFH, ESA critical habitat, designated area, significant natural areas, areas of high profile political interest, areas used by species of special concern, deduced material disposal sites Federally listed, proposed for listing, and species of concern, as well as any critical habitat areas designated or proposed under the endangered species act mant of disposal sites and site designation Planning purposes, monitoring and designation of dredged material disposal sites ves ves 1000ft US Army Corps of Engineers - Peter LaCivita 446-450.455-459 Needs Hidh // significant natural areas (underwater pinnacles), areas used by species of concern, areas of conflict, proximity
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Bathymetry:	
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Block Number(s)	202 202 202 202 540 540 525 520 525 520 754 752 242 244
Block Number(s): Needs/Holdings:	262-263,268-269,516,525-526,685-690,761-762,813-814 Needs
Priority (needs):	High
Water Depth:	1/
Ranking Criteria (needs):	Significant natural area with high habitat value in terms of species diversity and abundance, high use, potential
ranking officia (necas).	conflict, vulnerability to pollution, storms, overfishing
Species/Resource of Concern:	1/
Management Issues of Concern:	/
How Would Mapped Data Be Used:	/
Bathvmetrv:	/
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.
	pe useu to uetermine area or white abatone habitat. This data would also be useful to other species, e.g.
Bathymetry:	ves
Substrate Type:	ves +seabed morphology, rugosity, algal cover
Resolution and Scale:	/
Institution:	Fish and Game south
Block Number(s):	108
Needs/Holdinas:	Needs
Priority (needs):	High
Water Depth:	0-90 fathoms
Ranking Criteria (needs):	
Species/Resource of Concern:	finfish. invertebrates
Management Issues of Concern: How Would Mapped Data Be Used:	multi use conflict; near port
Bathymetry:	
Substrate Type:	/ /
Resolution and Scale:	1ft
Institution:	Fish and Game - North
mstration.	This ratio datio Hotel
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:	<u>/</u>
Bathymetry:	<u>/</u>
Substrate Type:	l ats
Resolution and Scale:	1ft Fish and Game - North
Institution:	IFISH AND GAITHE - INORTH
Block Number(s):	262
Needs/Holdinas:	262 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:	
Bathvmetrv:	<u></u>
Substrate Type:	V
Resolution and Scale:	Ift
Institution:	Fish and Game - North
	loon .
Block Number(s):	268
Needs/Holdings:	Needs
Priority (needs):	High
Water Depth: Ranking Criteria (needs):	0-20 fathoms
Species/Resource of Concern:	I/ finfish
	Imulti use conflict, near nort
Management Issues of Concern:	multi use conflict, near port
Management Issues of Concern: How Would Mapped Data Be Used:	multi use conflict, near port //
Management Issues of Concern: How Would Mapped Data Be Used: Bathvmetry:	multi use conflict, near port / / /
Management Issues of Concern: How Would Mapped Data Be Used:	multi use conflict, near port / / / / / / / / / / / / / / / / / / /
Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type:	/ / /

Block Number(s):	402	
Needs/Holdinas:	Needs	
Priority (needs):	High	
Water Depth:	0-20 fathoms	
Ranking Criteria (needs):	V	
Species/Resource of Concern:	finfish. invertebrates	
Management Issues of Concern:	multi use conflict: far port: potential reserve	
How Would Mapped Data Be Used:	<u>V</u>	
Bathymetry:	<u>V</u>	
Substrate Type:	V	
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:	V	
Bathvmetrv:	/	
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	
TTUGG DEDUI.	10-20 Iathoris	
Ranking Criteria (needs):		
	IO-20 ratnoms // finfish. invertebrates current reserve, far port	
Ranking Criteria (needs): Species/Resource of Concern:	/ finfish. invertebrates	
Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern:	/ finfish. invertebrates	
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How Would Mapped Data Be Used:	-
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Bathymetry:	
Substrate Type: Resolution and Scale:	I/
Institution:	Fish and Game - North
motitution.	Historia Carlo Nota
Block Number(s):	402
Needs/Holdinas:	Needs
Prioritv (needs):	Medium
Water Depth:	0-30 fathoms
Ranking Criteria (needs):	/ Indiah invertebrates
Species/Resource of Concern: Management Issues of Concern:	finfish, invertebrates potential reserve, multi use conflict, near port
How Would Mapped Data Be Used:	Dolental reserve. mont use common near bott
Bathvmetry:	/
Substrate Type:	l/
Resolution and Scale:	1ft
Institution:	Fish and Game - North
Division (a)	Loc
Block Number(s): 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:	<u>V</u>
Bathymetry:	V V
Substrate Type: Resolution and Scale:	1/ 1ft
Institution:	Fish and Game - North
	O SECURITE CHIEF CONTROL CONTR
Block Number(s):	402/401
Needs/Holdings:	Needs
Priority (needs):	Medium
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	// investments
Species/Resource of Concern: Management Issues of Concern:	invertebrates potential reserve, far port
How Would Mapped Data Be Used:	botemia reserve, lai bott
Bathymetry:	/
Substrate Type:	//
Resolution and Scale:	<u>1ft</u>
Institution:	Fish and Game - North
Division (a)	Tea.
Block Number(s): Needs/Holdings:	114 Needs
Priority (needs):	Low
Water Depth:	0-40 fathoms
Ranking Criteria (needs):	
INGUINITY OFFICE IS THE CUST.	/
Species/Resource of Concern:	/ invertebrates
Species/Resource of Concern: Management Issues of Concern:	/ invertebrates multiuse conflict, far port
Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used:	
Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry:	
Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type:	
Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry:	multiuse conflict, far port / / / /
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Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s):	multiuse conflict, far port / / / / / / / / / / / / / / / / / / /
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Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	multiuse conflict, far port / / / / / / / Ift Fish and Game - North 222,233 Needs
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Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type:	multiuse conflict, far port / / / / / Ift Fish and Game - North 222.233 Needs Low / / / / far port / / / / / / / / / / / / / / / / / / /
Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Deoth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution:	multiuse conflict, far port / / / / / / / / / / / / / / / / / / /
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Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Deoth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution:	multiuse conflict, far port / / / / / / / / / / / / / / / / / / /
Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Deoth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Substrate Type: Resolution and Scale: Institution:	multiuse conflict, far port / / / / / Ift Fish and Game - North 222.233 Needs Low / / / / far port / / / fish and Game - North
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Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern:	multiuse conflict, far port / / / / / Ift Fish and Game - North 222.233 Needs Low / / / / far port / / / / fish and Game - North
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Priority (needs):	Low
Water Depth:	0-20 fathoms
Ranking Criteria (needs):	<u> </u>
Species/Resource of Concern:	invertebrate
Management Issues of Concern:	far port
How Would Mapped Data Be Used:	//
Bathymetry:	<u>/</u> /
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,
rtanking Oritoria (necas).	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)
Charles/December of Concerns	
Species/Resource of Concern:	kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community
Management leaves of Con	(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.
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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.
Bathvmetry:	Yes
Substrate Type:	lyes
Resolution and Scale:	10bv10
Institution:	UC Santa Cruz- Dept of Biology
Block Number(s):	501.538-539.547.553
Needs/Holdinas:	Needs
Needs/Holdinas:	Needs
Needs/Holdinas: Priority (needs):	Needs Medium
Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 0-300ft 1)areas of mult use/conflict (tourism, kelp harvesting, live fish fishery, recreational fishery, urbanization,
Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 0-300ft 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
Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 0-300ft 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
Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 0-300ft 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
Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 0-300ft 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
Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 0-300ft 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
Needs/Holdings: Priority (needs): Water Depth:	Needs Medium 0-300ft 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
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs):	Needs Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs):	Needs Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (general), sea otters & other marine mammals (marine Mammal Act)
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern:	Needs Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (general) sea otters & other marine mammals (marine Mammal Act) 1)EFH: structure and dynamics 2)marine reserve design: location, size, landscape comp., fisheries
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern:	Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea otters & other marine mammals (marine Mammal Act) 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
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern:	Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (general) sea otters & other marine mammals (marine Mammal Act). 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,
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern:	Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea otters & other marine mammals (marine Mammal Act) 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
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Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth:	Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urthins, abalone, macro-invert community (general), sea otters & other marine mammals (marine Mammal Act) 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. 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. Ves Ves 10X10 UC Santa Cruz- Dept of Biology 108 Needs Medium 80FT TO 100FT Dredged Material disposal site, essential fish habitat, ESA critical habitat, designa
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs):	Needs Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (general). Sea others & other marine mammals (marine Mammal Act) 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. 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. Ves Ves 10X10 UC Santa Cruz- Dept of Biology 108 Needs Medium 80FT TO 100FT Dredged Material disposal site, essential fish habitat, ESA critical habitat,
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Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern:	Needs Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urthins, abalone, macro-invert community (reneral) sea otters. & other marine mammals (marine Mammal Act) 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. 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. Ves 10X10 UC Santa Cruz- Dept of Biology 108 Needs Medium 80FT TO 100FT Dredged Material disposal site, essential fish habitat, ESA critical habitat, designate
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used:	Needs Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (general). Sea otters & other marine mammals (marine Mammal Act) 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. 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. Ves Ves 108 Needs Medium 30FT TO 100FT Dredged Material disposal site, essential fish habitat, ESA critical habitat, designated area, significant natural area
Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale: Institution: Block Number(s): Needs/Holdings: Priority (needs): Water Depth: Ranking Criteria (needs): Species/Resource of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type:	Needs Medium 0-300ft 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 kelp forest ecosystem, rockfish, fish community (general), sea urchins, abalone, macro-invert community (neneral). sea others & other marine mammals (marine Mammal Acr) 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. 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. ves 108 108 Needs Medium SoFT TO 100FT Dredged Material disposal site, essential fish habitat, ESA critical habitat, designated area, significant natural are
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Pre-workshop Results: Raw HOLDINGS Data

Divid Novi (a)	100 001 005 040 040 005 000 004 455 457 404 407 470 470 470 400 400 407 500 505 507
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-
Needs/Holdinas:	550 552-559 562-568 605 606 638 639 643-646 649 653-660 662 663 666-673 675 676 682- Holdina
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:	ves
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 vr 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
3	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/Holdinas:	Holdings
Water Depth: Species/Resource of Concern:	(CIS of cityrells and platform locations
Management Issues of Concern:	GIS of oil wells and platform locations
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:	I/
Institution:	DOC-oil&gas
How data formatted (holdings):	GIS
How data formatted (holdings): When data aguired (holdings):	GIS /
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When data aguired (holdings): Block Number(s): Needs/Holdings:	// 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- 602,516,517,525,529,542,546,569,622,622,622,624,625,655,670,690,691,692,600 Holdings
When data aguired (holdings): Block Number(s): Needs/Holdings: Water Depth:	// 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- 502,516,547,526,529,542,546,569,622,622,622,624,626,656,670,690,691,692,600 Holdings See USGS section of folder
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When data aguired (holdings): Block Number(s): Needs/Holdings: Water Depth: Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry:	// 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- 502,516,547,526,529,542,546,569,622,622,622,624,626,656,670,690,691,692,600 Holdings See USGS section of folder
When data aguired (holdings): Block Number(s): Needs/Holdings: Water Depth: Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type:	// 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- 502,516,547,526,529,542,546,569,622,622,622,624,626,656,670,690,691,692,600 Holdings See USGS section of folder
When data aguired (holdings): Block Number(s): Needs/Holdings: Water Depth: Species/Resource of Concern: Management Issues of Concern: How Would Mapped Data Be Used: Bathymetry: Substrate Type: Resolution and Scale:	106,108-112,114-117,119-125,127-129,131,133-135,138,203-206,211-214,226,241,281,407-408,414-416,423-428,430,432-437,439-442,446-451,455-460,464-469,472-478,480,482,483,487,501-602 616 617 612 614 617 612 614 614 614 614 614 614 614 614 614 614
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How Would Mapped Data Be Used:	V
Bathymetry:	V
Substrate Type:	<u>/</u> /
Resolution and Scale:	1ft
Institution:	Fish and Game - North
How data formatted (holdings):	ln/a
When data aquired (holdings):	ln/a
Block Number(s):	228
Needs/Holdinas:	Holdings
Water Depth:	3-30 fathoms
Species/Resource of Concern:	V
Management Issues of Concern:	current reserve, far port
How Would Mapped Data Be Used:	V
Bathymetry:	l/
Substrate Type:	l/
Resolution and Scale:	l1ft
Institution:	Fish and Game - North
How data formatted (holdings):	ln/a
When data aquired (holdings):	ln/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:	ves
Resolution and Scale:	<u> </u>
Institution:	lusgs
How data formatted (holdings):	digital, sidescan mosaic, seismic reflection profiles
When data aquired (holdings):	1/98-12/00