

# California Ocean Uses Atlas Project

## Southern California Region: Point Conception to US-Mexico border

### INSTRUCTIONS FOR WORKSHOP PARTICIPANTS

#### INDUSTRIAL OCEAN USES Tuesday, September 16<sup>th</sup>, 2008

#### OVERVIEW

The California Ocean Uses Atlas Project will create maps of the full range of ocean uses throughout California's waters. This project spans the marine environment from the shoreline to the offshore boundary of the EEZ (200nmi) and includes all state and federal waters around the offshore islands. This workshop is designed to capture spatial data regarding the patterns of specific *industrial* uses of the ocean throughout the southern California region from Point Conception to the US-Mexico border. Workshop participants will be asked to impart their knowledge regarding a range of industrial uses (see list below) throughout the study region.

We will create these ocean use maps together in a participatory group mapping exercise that focuses on gathering three different, but related kinds of spatial information for each use: (i) the general pattern of use throughout the region; (ii) the dominant areas where the use is most commonly pursued; (iii) anticipated future trends in spatial extent or intensity of use.

At the start of the workshop, all participants will be assigned to a work group and an associated mapping station. Participants will remain with their work group throughout the day. Each mapping station will have a dedicated GIS specialist and a facilitator to guide the group through the mapping process and to ensure that the workshop objectives are met. Each station will have paper base maps for reference, as well as the digital technology needed to complete the workshop tasks in an efficient and timely and interactive manner.

Industrial uses span a wide range of commercial and military activities.

<i>Type of Use</i>	<i>Use Name</i>	<i>Includes</i>	<i>Excludes</i>
<i>Industrial</i>			
	Aquaculture	net pens, shellfish	onshore facilities linked to offshore operations
	Cruise Ships	extended overnight travel by ship for commercial purposes	private yachting
	Military Operations	test ranges, war games, acoustic arrays, ship and submarine maneuvers, restricted areas, munitions disposal	war-time operations
	Mining and Mineral Extraction	sand and gravel, seabed mining	energy production
	Offshore Alternative Energy	Wave, current, tidal, wind, solar & associated infrastructure (cables & moorings)	oil, gas and LNG activities
	Offshore Oil and Gas	exploration, production, transportation of gas or oil, LNG, fuel terminals, pipelines, tankers, seismic air gun exploration	alternative energy operations
	Shipping	ships, large commercial vessels, shipping routes and channels including maintenance	cruise ships, oil and LNG tankers
	Underwater Cables	Ocean observing and telecommunications	cables associated with utilities and energy transmission, lost fishing gear

## MAPPING GUIDANCE

For each use presented, you will be asked to map the following:

### Step 1: Maximum Footprint of Use

**Objective:** To map the maximum footprint, or areal extent, of each use throughout the study area. The Maximum Footprint of Use includes all areas in which the use is *known to occur* with some regularity, regardless of its frequency or intensity. The maximum footprint does not include areas where the use may have occurred once or twice or where it might conceivably occur now or in the future (e.g. fishing throughout the entire EEZ).

**Mapping Approach:** With guidance from the facilitators, participants will draw shapes that represent activity areas for each specific ocean use. Each participant will be given an opportunity to individually draw use areas, add existing ones and discuss conflicts, as time permits. Taking turns, participants will draw use boundaries on the projected map based on their knowledge of where this use is known to occur. For certain uses, some existing data and use patterns will be presented and participants will be asked to review and modify the existing patterns for completeness and accuracy. All contributions will be merged together to create an overall regional footprint. If one participant has already drawn the use in a given area, it is not necessary to draw over this area.

### Step 2: Dominant Use Areas

**Objective:** To draw boundaries for dominant use areas throughout the study region. Dominant use areas are defined as *ocean areas routinely used by most users most of the time*. Examples could include: areas of intense oil production, popular swimming beaches, regular fishing areas for chart boats, hot spots for whale watching, consistently good surfing beaches, etc.

**Mapping Approach:** With guidance from the facilitators, participants will work together to draw shapes showing the dominant use areas as they occur throughout the study region. Participants will be presented with the results from Step 1 and asked to map the dominant locations within the maximum footprint that are most routinely used. With guidance from facilitators, the group will work together to decide where to draw these areas on the map. If there are specific areas that you consider dominant use areas, ask the GIS facilitator to zoom to those areas and allow you to draw a draft shapes. Once draft shapes have been drawn for the entire study region, then the entire group will decide which areas to keep, refine, modify or eliminate. The resulting areas will be identified as the dominant use areas for that use. Please note that this is designed as a group exercise and participants should work together to agree on which areas to map as dominant use areas.

### Step 3: Future Use Areas

**Objective:** To anticipate, where appropriate, future trends in each use for the foreseeable future (e.g. ten years out), and to illustrate ocean areas where the patterns of use may either expand or grow in intensity. Future trends in use patterns should reflect an anticipated significant and disproportionate (relative to other areas) change in patterns of use through either a lateral expansion of a dominant use area or an increase in its intensity of use, or both.

**Mapping Approach:** Participants will work together to identify and draw potential future areas for each use throughout the study region. If the group is unable to quickly project future trends in a particular use, we will move on to the next use.

## IMPORTANT CONSIDERATIONS

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**PLEASE ASK A FACILITATOR IF YOU HAVE ANY QUESTIONS!**

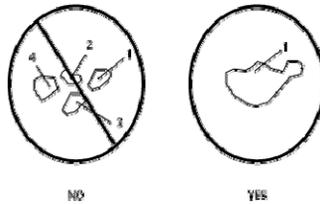
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**Preparation** – although we are not using existing spatial data in the workshop, you are welcome to bring maps and other reference information relevant to uses in your session. You might also wish to sketch out your thoughts on the patterns of certain uses on the blank regional maps provided in this mailing and at the workshop.

**Scale** - In order to map the entire study region, it will be necessary to break it up into sections, map each section separately and combine results at the end. The GIS specialist will work with you to ensure that the entire region gets represented.

**Broad Brush Strokes** - For this exercise, don't draw too many tiny areas for each small place where the use occurs; instead, draw the larger aggregate area within which these uses occur.



**Land vs. Sea** -- If you are drawing a use area that comes close to the shore, go ahead and extend the shape to cover the land rather than trying to precisely trace the shoreline. We will process the data later to only include the marine area.

**Drawing Shapes in GIS** -- When you are ready to close a use area in the mapping exercise, don't attempt to connect the area at the first point. Under-draw the line and allow the computer to complete the shape. Overdrawing the shape can create technical issues with the GIS.

**Disagreements** - Disputes will be recorded by the facilitator and all participants' input will be retained. So, try to use your time productively and efficiently, recognizing that the objective is to acquire an realistic broad scale comprehensive map of each use for the entire region, rather than a precise map of one use in a single small area.

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**WE THANK YOU FOR YOUR TIME AND CONTRIBUTION**

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# California Ocean Uses Atlas Project

## Southern California Region: Point Conception to US-Mexico border

### INSTRUCTIONS FOR WORKSHOP PARTICIPANTS

#### NON-CONSUMPTIVE OCEAN USES Wednesday, September 17<sup>th</sup>, 2008

#### OVERVIEW

The California Ocean Uses Atlas Project will create maps of the full range of ocean uses throughout California's waters. This project spans the marine environment from the shoreline to the offshore boundary of the EEZ (200nmi) and includes all state and federal waters around the offshore islands. This workshop is designed to capture spatial data regarding the patterns of specific *non-consumptive* uses of the ocean throughout the southern California region from Point Conception to the US-Mexico border. Workshop participants will be asked to impart their knowledge regarding a range of non-consumptive uses (see list below) throughout the region.

We will create these ocean use maps together in a participatory group mapping exercise that focuses on gathering three different, but related kinds of spatial information for each use: (i) the general pattern of use throughout the region; (ii) the dominant areas where the use is most commonly pursued; (iii) anticipated future trends in spatial extent or intensity of use.

At the start of the workshop, all participants will be assigned to a work group and an associated mapping station. Participants will remain with their work group throughout the day. Each mapping station will have a dedicated GIS specialist and a facilitator to guide the group through the mapping process and to ensure that the workshop objectives are met. Each station will have paper base maps for reference, as well as the digital technology needed to complete the workshop tasks in an efficient and timely and interactive manner.

<i>Type of Use</i>	<i>Use Name</i>	<i>Includes</i>	<i>Excludes</i>
<i>Non-Consumptive</i>			
	Beach Use	walking, running, digging, resting, shell collecting, wildlife viewing, driving, camping, kite flying, bonfires, picnicking, dog walking	beach renourishment, dredging, scientific/educational specimen collecting, seascape viewing from boats or from shoreward of the beach, surf fishing, swimming
	Motorized boating	personal watercraft, outboard motors, private motorized vehicles	fishing boats and wildlife viewing charters, cruise ships
	Paddling	kayaking, canoeing, rowing, outrigger paddling	motorized craft, surfing, wind-surfing
	Sailing	sailboats, overnight anchoring	sailing kayaks and canoes
	SCUBA/Snorkeling	SCUBA diving, tethered diving, snorkeling (free diving)	surface swimming
	Surface Water Sports	surfing, wind-surfing	paddled boats, snorkeling
	Swimming	Short- and long-distance surface swimming any distance from shore	SCUBA diving, tethered diving, snorkeling (free diving)
	Tidepooling	use of rocky shores for naturalist, leisure, or educational purposes	subsistence and bait harvesters, clam digging, netting and trapping, aquaria and scientific collection
	Wildlife Viewing at sea (Commercial only)	any commercial boat-based or aerial wildlife viewing at sea	shore based wildlife viewing

## MAPPING GUIDANCE

For each use presented, you will be asked to map the following:

### Step 1: Maximum Footprint of Use

**Objective:** To map the maximum footprint, or areal extent, of each use throughout the study area. The Maximum Footprint of Use includes all areas in which the use is *known to occur* with some regularity, regardless of its frequency or intensity. The maximum footprint does not include areas where the use may have occurred once or twice or where it might conceivably occur now or in the future (e.g. kayaking throughout the entire EEZ).

**Mapping Approach:** With guidance from the facilitators, participants will draw shapes that represent activity areas for each specific ocean use. Each participant will be given an opportunity to individually draw use areas, add existing ones and discuss conflicts, as time permits. Taking turns, participants will draw use boundaries on the projected map based on their knowledge of where this use is known to occur. For certain uses, some existing data and use patterns will be presented and participants will be asked to review and modify the existing patterns for completeness and accuracy. All contributions will be merged together to create an overall regional footprint. If one participant has already drawn the use in a given area, it is not necessary to draw over this area.

### Step 2: Dominant Use Areas

**Objective:** To draw boundaries for dominant use areas throughout the study region. Dominant use areas are defined as *ocean areas routinely used by most users most of the time*. Examples could include: popular swimming beaches, regular fishing areas for chart boats, hot spots for whale watching, consistently good surfing beaches, etc.

**Mapping Approach:** With guidance from the facilitators, participants will work together to draw shapes showing the dominant use areas as they occur throughout the study region. Participants will be presented with the results from Step 1 and asked to map the dominant locations within the maximum footprint that are most routinely used. With guidance from facilitators, the group will work together to decide where to draw these areas on the map. If there are specific areas that you consider dominant use areas, ask the GIS facilitator to zoom to those areas and allow you to draw a draft shapes. Once draft shapes have been drawn for the entire study region, then the entire group will decide which areas to keep, refine, modify or eliminate. The resulting areas will be identified as the dominant use areas for that use. Please note that this is designed as a group exercise and participants should work together to agree on which areas to map as dominant use areas.

### Step 3: Future Use Areas

**Objective:** To anticipate, where appropriate, future trends in each use for the foreseeable future (e.g. ten years out), and to illustrate ocean areas where the patterns of use may either expand or grow in intensity. Future trends in use patterns should reflect an anticipated significant and disproportionate (relative to other areas) change in patterns of use through either a lateral expansion of a dominant use area or an increase in its intensity of use, or both.

**Mapping Approach:** Participants will work together to identify and draw potential future areas for each use throughout the study region. If the group is unable to quickly project future trends in a particular use, we will move on to the next use.

## IMPORTANT CONSIDERATIONS

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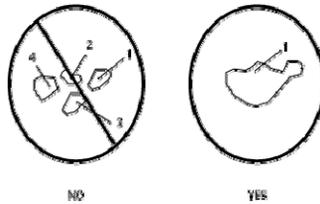
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**Preparation** – although we are not using existing spatial data in the workshop, you are welcome to bring maps and other reference information relevant to uses in your session. You might also wish to sketch out your thoughts on the patterns of certain uses on the blank regional maps provided in this mailing and at the workshop.

**Scale** - In order to map the entire study region, it will be necessary to break it up into sections, map each section separately and combine results at the end. The GIS specialist will work with you to ensure that the entire region gets represented.

**Broad Brush Strokes** - For this exercise, don't draw too many tiny areas for each small place where the use occurs; instead, draw the larger aggregate area within which these uses occur.



**Land vs. Sea** -- If you are drawing a use area that comes close to the shore, go ahead and extend the shape to cover the land rather than trying to precisely trace the shoreline. We will process the data later to only include the marine area.

**Drawing Shapes in GIS** -- When you are ready to close a use area in the mapping exercise, don't attempt to connect the area at the first point. Under-draw the line and allow the computer to complete the shape. Overdrawing the shape can create technical issues with the GIS.

**Disagreements** - Disputes will be recorded by the facilitator and all participants' input will be retained. So, try to use your time productively and efficiently, recognizing that the objective is to acquire an realistic broad scale comprehensive map of each use for the entire region, rather than a precise map of one use in a single small area.

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# California Ocean Uses Atlas Project

## Southern California Region: Point Conception to US-Mexico border

### INSTRUCTIONS FOR WORKSHOP PARTICIPANTS

#### FISHING OCEAN USES Thursday, September 18<sup>th</sup>, 2008

#### OVERVIEW

The California Ocean Uses Atlas Project will create maps of the full range of ocean uses throughout California's waters. This project spans the marine environment from the shoreline to the offshore boundary of the EEZ (200nmi) and includes all state and federal waters around the offshore islands. This workshop is designed to capture spatial data regarding the patterns of specific *fishing* uses of the ocean throughout the southern California region from Point Conception to the US-Mexico border. Workshop participants will be asked to impart their knowledge regarding a range of fishing uses (see list below) throughout the study region.

We will create these ocean use maps together in a participatory group mapping exercise that focuses on gathering three different, but related kinds of spatial information for each use: (i) the general pattern of use throughout the region; (ii) the dominant areas where the use is most commonly pursued; (iii) anticipated future trends in spatial extent or intensity of use.

At the start of the workshop, all participants will be assigned to a work group and an associated mapping station. Participants will remain with their work group throughout the day. Each mapping station will have a dedicated GIS specialist and a facilitator to guide the group through the mapping process and to ensure that the workshop objectives are met. Each station will have paper base maps for reference, as well as the digital technology needed to complete the workshop tasks in an efficient and timely and interactive manner.

<i>Type of Use</i>	<i>Use Name</i>	<i>Includes</i>	<i>Excludes</i>
<i>Fishing</i>			
	Commercial dive fishing	Commercial SCUBA and free diving for invertebrates and fishes	All other forms of commercial fishing
	Commercial fishing with benthic fixed gear	traps, pots, bottom longlines, bottom gillnets	All other forms of commercial fishing
	Commercial fishing with benthic mobile gear	trawling, dredging	All other forms of commercial fishing
	Commercial pelagic fishing	Mid-water trawling, purse seine, pelagic longlines, handlines, harpoons, mid-water gillnets	All other forms of commercial fishing
	Kayak fishing	Hook and line fishing from hand-propelled kayaks	All other forms of fishing, including motorized kayaks
	Kelp harvesting	kelp harvesting	all other harvesting
	Recreational dive fishing	Recreational SCUBA and free-diving for invertebrates and fishes	All other forms of fishing
	Recreational fishing from boats	Party boats, rod and reel, trolling, head boats, trap, private boats	All other forms of boat-based fishing
	Recreational fishing from shore	Rod and reel, surf-casting, fishing from piers, jetties, crab traps	All other forms of shore-based fishing

## MAPPING GUIDANCE

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## IMPORTANT CONSIDERATIONS

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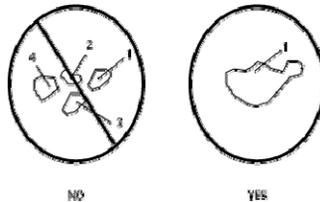
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