

Datasets and data sources considered for inclusion in the Nearshore Ecological Atlas (NEDA) but not used

3/1/2012

		Reason why not included in NEDA / Marxan Analysis												Additional Comments
Category	Descriptive Dataset Name	Data not available to us	Project or data work-up in progress but not available yet	Supporting data exist but haven't been worked up in general	Supporting data exist but haven't been worked up for use in MSP (e.g., modeled/interpolated surface from point/line data)	Unknown data availability	Spatial Extent Limitation	Temporal extent limitation	Spatial scale mismatch (resolution/cell grain size or interpretation scale)	Redundancy (used similar but more complete data, or data proxy)	Confidential	Data Format Issue (e.g., hardcopy/not readily useable)	Data not appropriate for spatial use	
Habitat	OSU sea floor habitat map (v 4.0)		x											Version not yet available (as of 3/1/12), and will only include seafloor interpretations from recent (2009-10) mapping work; it will NOT be integrated with version 3.6.1
Habitat	OSU sea floor habitat map - comprehensive composite			x										Awaiting funding/personnel to merge OSU SGH version "4" with v 3.6.1
Habitat	Survey of benthic communities near potential renewable energy sites offshore the Pacific Northwest (current BOEMRE-funded study)		x		x									P.I.: Dr. George Boehlert. Study scheduled for completion in 2014
Habitat	Various derivative layers for multibeam bathymetry (rugosity, BPI, slope, etc.)			x										Not yet available (as of 3/1/12). Primary purpose is to differentiate habitat types within rocky habitat. Not needed in current process if all rock habitat is protected.
Habitat	Subtidal biogenic habitat such as sand dollar beds			x										Not yet available (as of 3/1/12).
Habitat	Shoreline classification based on Shorezone mapping project		x											Not yet available (as of 3/1/12).
Oceanography	Columbia River Plume			x					x (for Juan-Gorda climatology data)					Readily available known data is very coarse (19 nm cell size); likely that someone somewhere has created finer-scale climatology of plume distribution and intensity but we are not aware of it.
Oceanography	Ocean Fronts						x							Data not available for Territorial Sea (available offshore)
Oceanography	Retention Areas				x									Not available in a spatial format.
Algae	Historical N.O.S. "Smooth Sheet" data (1868-1958)							x		x				Recovered and digitized in 2009 by DLCD; not clear if this would be useful for making management decisions currently, because the rock habitat that supported the historical kelp forests that are different from those identified in recent years may be long gone (e.g., burial by sand).
Invertebrate	Survey of benthic communities near potential renewable energy sites offshore the Pacific Northwest (current BOEMRE-funded study)		x		x									P.I.: Dr. George Boehlert. Study scheduled for completion in 2014
Invertebrate	Invertebrate data from NMFS annual (2004-2009) and triennial (1974-2004) trawl surveys				x									Data represent incidental catch of invertebrates in fish trawl surveys. NMFS advised against directly using data to spatially represent invertebrate distribution, however, it is unclear but possible that these data could be modeled appropriately to generate a predictive abundance surface (e.g., presence-only models such as Maxent)

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Invertebrate	Commercial shrimp fishery logbook data				x		x				x			Shrimp fishery data occurs outside Territorial Sea. ODFW confidential database.
Invertebrate	Commercial urchin fishery logbook data				x					x	x			Our Process didn't attempt to differentiate rocky habitat so urchin data was not needed. ODFW confidential database.
Invertebrate	Commercial razor clam fishery logbook data				x		x				x			Razor clam data limited in extent to Clatsop Spit beaches. ODFW confidential database.
Invertebrate	Razor clam biological surveys						x							Razor clam data limited in spatial extent to Clatsop Spit beaches.
Invertebrate	PISCO rocky intertidal community data				x		x							Data exist for specific sites; not worked up in fully representative spatial context.
Invertebrate	Numerous site-specific studies and inventories for intertidal and subtidal invertebrates				x	x	x	x	x					Individual studies/datasets limited in spatial extent. Might be useful with synthesis.
Fish	NMFS Pacific Whiting Biannual Survey				x		x					x		Data only outside territorial sea. Point/line data that needs to be modeled/interpolated to a continuous surface.
Fish	OSU coastal beam trawl studies 1977-1979				x							x		Krygier and Percy, 1986. Data exist in hard-copy data sheets. Sampled inside of 60 m. Many samples inside of 20 m. Point/line data that needs to be modeled/interpolated to a continuous surface.
Fish	OSU central Oregon shelf flatfish demersal fish studies 1989-1994 (referred to as the "Toole data" or the "Markel data")				x		x					x		Limited spatial extent of data. Point/line data that needs to be modeled/interpolated to a continuous surface. Toole, et al. (2011)
Fish	International Pacific Halibut Commission survey data 2007-2009				x		x					x		Limited spatial extent of data inside territorial sea. Point/line data that needs to be modeled/interpolated to a continuous surface. IPHC (Dykstra 2011).
Fish	Commercial nearshore hook and line fishery logbook data			x						x	x			Our Process didn't attempt to differentiate rocky habitat so hook and line and fixed gear data not needed. ODFW confidential database.
Fish	Commercial fixed gear fishery logbook data			x						x	x			Data mostly outside of the Territorial Sea. Our Process didn't attempt to differentiate rocky habitat so hook and line and fixed gear data not needed. ODFW confidential database.

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Fish	Commercial sardine fishery logbook data			x			x				x			Sardine fishery data limited in extent.
Fish	NMFS Habitat Suitability Probability (HSP)maps of adult and juvenile groundfish								x					Data too generalized and spatial scale too large to be useful for TSP process (advice from science workshop). Pacific Fisheries Management Council (2005a and 2005b); this dataset is apparently being improved (e.g. more advanced statistical predictive models, and better input data), so inclusion may be a possibility in the future.
Fish	NMFS Observer data				x						x			Not available in timeframe of study. Point/line data that needs to be modeled/interpolated to a continuous surface. Site-specific data are highly confidential.
Fish	Pikitch bycatch data				x									Not available in timeframe of study. Point/line data that needs to be modeled/interpolated to a continuous surface.
Fish	Green Sturgeon migration corridor			x	x								x	Unknown if adequate data exist. Erickson and Hightower (2007) data were based on 7 fish from the Rogue River, and although some logbook data were also assessed, we determined that defining the depth zone of a migration corridor from this study was inappropriate. However, analysis of trawl logbook data and recent acoustic telemetry data could fill this gap in the future.
Fish	Numerous site-specific studies and inventories for intertidal and subtidal fish				x	x	x	x	x					Individual studies/datasets limited in spatial extent. Might be useful if synthesized but would probably take significant effort to assess, let alone do.
Fish	Salmonid early life history distribution & abundance in nearshore ocean			?	x									Datasets owned by NOAA (CIMRS), others?
Fish	Kintama research acoustic telemetry (POST array)			?	x		?				x			
Fish	Salmon distribution and abundance by species/run (OSU CROOS project)			?	x		?				x			
Fish	NMFS/Bonneville juvenile salmonid surveys				x									These datasets are a rich source of information that should be tapped in the future, but it was not do-able within the time and financial resources available . Contact Ric Brodeur.
Fish	NMFS HSP juvenile fish trawl survey data (C. Whitmire)		x	x										
Fish	Atlantis 3D hydrodynamic model													
Fish	Southwest juvenile rockfish surveys (Brawlstein)		x	x										
Fish	Sardine EFP council, aerial surveys	x		x										
Seabirds	GLOBEC 2000 and 2002 seabird surveys over the shelf off of central and southern Oregon							x		x				Used PRBO seabird model data instead of individual surveys in areas outside the Territorial Sea.
Seabirds	CCES survey (2008)							x		x				Used in PRBO modeling. (Zamon 2008)

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Seabirds	NMFS rockfish research cruises (2000-6)									x				Used in PRBO modeling. (Zamon 2008)
Seabirds	ORCAWALE, C-SCAPE research cruises (2005, 2008)							x		x				Used in PRBO modeling. (Zamon 2008)
Seabirds	Yaquina Bay Birders Depoe Bay land-based surveys			x	x	x	x					x		Dataset could be useful for very-nearshore bird species composition and abundance during migration periods
Seabirds and Mammals	EBASCO seabird, mammal, and pinniped surveys (MMS sponsored aerial surveys 1989-1990)							x		x				These 12 aerial and 1 shipboard surveys conducted over an 18-month period in 1989-90 could potentially be useful (especially for winter coverage) and should be fully evaluated in the future. However, these data were not used because the Crescent Coastal Research nearshore bird survey data were longer-term and more applicable to our MSP purposes in the Territorial Sea, and PRBO's predictive model datasets were more applicable offshore (they were spatialized into a continuous surface and the surveys used in the modeling spanned 11 years instead of 2 for the EBASCO surveys.
Mammals	Gray whale telemetry observation analysis (B. Mate)		x											
Mammals	Harbor porpoise data from Jeff Laake								x			x		Data spatialized at too large of a scale to be useful in TSP process.
Mammals	Gray whale distribution model from Parametrix	x								x				Used B. Mate and Craig Strong survey data for Gray Whale migration routes and distribution.
Other	Apex predator data	x									x			Funds were not available to gain access to Block et al.'s (2011) apex predator dataset .
Other	Zooplankton data - OSU, NMFS research cruises (e.g., Peterson)				x									Bill Peterson's data is a rich source of information that should be tapped in the future, but it was not do-able within the time and financial resources available for this process.