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	Agency	The Massachusetts Office of Coastal Zone Management
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	Agency web site	www.mass.gov/czm
	Role of agency in relation to marine boundaries, rights, interests, restrictions and responsibilities	
	Lead policy and technical assistance agency for networked coastal program. CZM works with other state agencies, federal agencies, local governments, academic institutions, nonprofit groups, and the general public to promote sound management of the Massachusetts coast.	
	Wateways licensing program is run by MA DEP Waterways Program. Shellfish aquaculture licenses are granted by towns, in conjunction with MA Division of Marine Fisheries.	
	Does your state maintain a central repository of marine data or marine cadastral data?	
	Coastal and marine data is available both through MassGIS and Massachusetts Ocean Resource Information System (MORIS).	
	Web address of statewide marine data or marine cadastral data repository	
	MassGIS - http://www.mass.gov/mgis/ MORIS - http://www.mass.gov/czm/mapping/index.htm	

	Marine Entity	Relevant in your state (Y/N)	In digital spatial form (Y/N)	In central repository (Y/N)	Authoritative Source responsible for creating and maintaining data	Known problems or limitations. Other comments.
Marine Cadastral Reference and Supporting Dat	A cadastral reference entity is relevant in your state if it exists and/or is used for boundary description and delineation. A cadastral reference network specifies corners of common control. A cadastral reference grid is a cadastral reference network arranged in grid form.					
	Cadastral reference network	N				
	Cadastral reference grid	N				
	Shoreline – high water	Y	Y	Y	Multiple	Multiple shoreline representations used in state datalayers. None adopted as "best."
	Shoreline – low water	Y	Y	inhouse right now, but CZM may make available	MA CZM, from federal sources	CZM extracted MLLW from Office of Coastal Survey Merged Vector Shoreline and edited: removed ponds and other non-saltwater boundaries, and stitched together. Straight lines across marshes.
	Salient shoreline points (Baseline points)	Y	Y	Y	MMS	to project SLA boundary
	Bathymetry	Y	Y	Y	MA CZM, from federal sources	In continuing development. For Ocean Management Plan, CZM developed a medium resolution coverage for state waters, generally at 30 m resolution, based on a number of different federal products covering different areas at 2 m to 90 m resolution.
	Coastal Geodetic control points	Y	Y	N	Mass Highway	in online mapping tool at Mass Highway website
	Coastal Orthoimagery	Y	Y	Y	MassGIS maintains and serves; delivered by USGS	2008-09. 15-30 cm.
	Analytic grids	Y	Y	Y	MA CZM	Analytic grids of 1000 m and 250 m square created for MA Ocean Mgmt Plan
Marine Jurisdictional Boundaries	State boundaries	Y	Y - but not distributed to other agencies	N	MA Highway Dept	State legal description does not agree with federal Submerged Lands Act. Generally use MMS for fed-state bound. Lateral boundaries do not line up exactly with NOAA representations.
	County boundaries	N				Counties do not have specific marine jurisdiction or police powers.
	Municipal boundaries	Y	Y	Y	Towns, and possibly state statute	Actualy boundaries are unclear/problematic. Representation is based on Ch. 196 Acts of 1881. Does not always coincide w/state territorial boundaries.
	Tribal boundaries	N				Wampanoags recently recognized by federal government, but the tribe has no specific marine jurisdiction.

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Tidelands	All tidelands	Y	Sort of	Sort of	MassGIS? DEP has responsibility for administering Waterways Program in all tidelands.	Only implicit in several other data layers. These implicit representations differ. Better representation may lie within filled vs. flowed tidelands, upcoming from DEP.
	Tideland classifications					
	Filled vs. Flowed Tidelands	Y	Y	Sort of N, but coming soon	DEP Waterways Program	Differing representations of filled and flowed tidelands can be extracted from DEP datalayers. DEP created an original shoreline from historical records and a contemporary shoreline, in order to build this representation.
	Commonwealth vs. Private Tidelands	Y	N			Commonwealth tidelands includes publicly owned tidelands and tidelands granted to private parties on condition of use for a public purpose. Private tidelands include only those held without such condition, but still subject to public trust easement for fishing, fowling, and navigation. Tidelands seaward of MLW or 1650 ft from MHW, whichever is more landward, are presumed to be Commonwealth Tidelands unless a private owner can demonstrate otherwise.
	Intertidal vs. always submerged tidelands	Y	Y	Y	MassGIS and MA CZM from several sources	Tidal flats and shoals are delineated in Hydrography (1:25,000). A layer called Intertidal Flats was also derived by MA CZM from 1:12,000 DEP Wetlands and Hydrography (1:25,000), for use in 250 m grid analysis.
	* Some states have submerged lands classes, for example, class 1 and class 2, filled vs. flowed, or intertidal vs. subtidal.					
Ownership of Tideland Parcels in Coastal Waters	Federally owned tidelands	Y	?	MORIS	Cape Cod National Seashore	Federally owned tidelands may also be attached to other federal uplands, such as Boston Harbor Islands, Charlestown Navy Yard, Salem Maritime National Historic Site.
	State owned tidelands	Y	N		Colonial and state legislative records	State owns most tidelands below MLW or 1650 ft from MHW, whichever is more landward. There may be exceptions created by old grants and legislative wharfing statutes.
	Local government owned tidelands	Y	N		Towns	Towns will generally own intertidal areas adjacent to town-owned uplands.
	Tribe-owned tidelands	Likely	N	N	Wompanoag Tribe	Likely around town of Mashpee
	Privately owned tideland parcels	Y	Perhaps partial	N	Municipal Assessors. Deed records at county registries of deeds.	May be found on some town assessor maps. MassGIS has partial compilation of town parcel data (not tideland specific). Accuracy for tideland parcels is doubtful.
	Deed restrictions	Y	N	N	MA DEP and county registries of deeds	Coastal Wetland Restriction Orders were issued by DEP and recorded at registries

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Marine Leases and Other Place-based Use Authorizations	Leases and other place-based use authorizations convey some exclusive right at a specified location or within a specified area. The activities listed below, as examples, are relevant in your state if they exist and require leases or other place-based use authorizations .					
	Oil or gas lease	N				
	Alternative energy					Not as of 2010
	Sand or gravel	Y	N		DEP Waterways Program	Waterways (Ch. 91) licenses required for sand or gravel removal in tidelands.
	Aquaculture	Y	in part	DMF in-house	Municipalities and DMF	Data compiled by DMF as of 2007 was too poor for distribution, kept in-house.
	Off-shore ports	N	In-house point data		DEP Waterways Program	Waterways (Ch. 91) licenses required for all structures in tidelands. Errors in point data.
	Cables and pipelines	Y	In-house point data		DEP Waterways Program	Waterways (Ch. 91) licenses required for all structures in tidelands. Errors in point data.
	Dredge disposal	Y	In-house point data		DEP Waterways Program	Waterways (Ch. 91) licenses required for dredge disposal in tidelands.
	Habitat restoration	N				Restoration may have been done, but not protected by a lease or license.
	Sea grass restoration	N				Restoration may have been done, but not protected by a lease or license.
	Shellfish restoration	N				Restoration may have been done, but not protected by a lease or license. Audubon in Wellfleet?
	Docks and piers	Y	In-house point data, incomplete		DEP Waterways Program	Waterways (Ch. 91) licenses required for <u>all</u> structures and alterations in tidelands. Errors in point data because based on applicant street addresses.
	Marinas	Y	In-house point data, incomplete	Yes for CZM data	DEP Waterways Program	Waterways (Ch. 91) licenses required for <u>all</u> structures and alterations in tidelands. Errors in point data because based on applicant street addresses.
	Shoreline stabilization	Y	In-house point and line data, incomplete		DEP Waterways Program	Waterways (Ch. 91) licenses required for <u>all</u> structures and alterations in tidelands. Errors in point data because based on applicant street addresses.
Other shoreline structures (lighthouses)	Y	Y	MORIS	CZM		
Non-water dependent uses						

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Marine Managed Areas (for study, planning, protection, safety, regulation, and other purposes)	<p>List MMAs appropriate for your state. Marine managed areas are diverse and may include regulated areas, fisheries management zones, marine sanctuaries, research reserves, national or state parks, wildlife refuges, lease blocks, disposal sites, no discharge areas, military restriction zones, speed or safety zones, native fishing rights, aquatic preserves, shellfish closure or growing areas, designated harbors and anchorage areas, pipeline and cable corridors, designated shipping lands, and marine planning areas.</p>					
	Protected and Recreational Open Space	Y	Y	Y	MassGIS, from multiple sources	Coastal upland protected and recreational open space may have associated intertidal portions.
	MA Ocean Sanctuaries	Y	Y	In-house w/ CZM only	MA CZM	NOAA MMA Inventory has all 5 sanctuaries Outer bounds are good. Lateral are good. But shore boundary cannot be mapped based on vagueries of legal description.
	Areas of Critical Environmental Concern	Y	Y	Y	Joint local/state approval. MassGIS data from CZM and DCR.	At least 13 of 30 ACECs are coastal and include portions of tidelands.
	MA Coastal Zone	Y	Y	Y	MA CZM	includes uplands and tidelands
	NHESP Priority Habitats of Rare Species	Y	Y	Y	MA DEP NHESP	includes uplands and tidelands
	NHESP Estimated Habitats of Rare Wildlife	Y	Y	Y	MA DEP NHESP	includes uplands and tidelands
	Coastal Wetlands	Y	Y	Y	MA DEP	Legally, wetlands are determined by on-site criteria, not this interpretation from CIR orthophotos.
	Barrier Beaches	Y	Y	Y	MA CZM	Barrier Beaches may be similar to wetlands--determined by on-site criteria, not mapping.
	Designated Shellfish Growing Areas	Y	Y	Y	MA DMF	2009. Includes areas of Nantucket Sound outside state jurisdiction. Comprehensive subdivision of tidelands for shellfish mgmt.
	Zoning	Y	Partial	Y	Municipalities. Partial compilation by MassGIS.	MassGIS has a partial compilation from towns of zoning info - not specific to tidelands. Most data is for uplands. No regular updates to MassGIS.
	No Wake Zone (Pleasant Bay ACEC)	Y	Y	N	Pleasant Bay Resource Management Plan, Cape Cod Commission	Similar MMAs may be designated in other ACECs.
	Pier and Dock Moratorium Area (Pleasant Bay ACEC)	Y	Y	N	Pleasant Bay Resource Management Plan, Cape Cod Commission	Similar MMAs may be designated in other ACECs.
	Mooring Free Zone (Pleasant Bay ACEC)	Y	Y	N	Pleasant Bay Resource Management Plan, Cape Cod Commission	Similar MMAs may be designated in other ACECs.
	Municipal Harbor Plans	Y	N		Towns	
	Designated Port Areas	Y	N - but coming soon		MA CZM	Coming soon
Renewable Energy Planning Areas	Y	Y	Y	MA CZM	The MA Ocean Management Plan designates areas as prohibited, multi-use, or suitable for renewal energy projects.	
No Discharge Areas	Y	N		US EPA	PDF at small scale available from US EPA	