

Oceanography Literacy. Know the meanings of the following terms and concepts they represent.

Section 1

Africans, Polynesians	Greeks (Pytheas, Eratosthenes)	
Oceanography	Matthew Maury, oceanography	Nansen, the Fram
Oceanology	Darwin, HMS Beagle	Meteor
Joides Resolution	Glomar Challenger	DSDP
Vasco da Gama, Prester John	James Cook, New Zealand	NOAA
Magellan, circumnavigation	six FRSS, HMS Challenger	ALVIN
	TOPEX/Poseidon satellite	NASA

Section 2

abyssal hill	Continental shelf	fault	mantle
abyssal plain	continental slope	fracture zone	mesosphere
asthenosphere	continental rise	guyot	midocean ridge
atmosphere	core	hydrosphere	rift valley
bathymetry	crust	igneous rock	seamount
biosphere	deep-ocean basin	isostasy	shelf break
continental margin	deep-sea trench	lithosphere	submarine canyon

Section 3

Andesite	magnetic strip anomaly	Pangaea	subduction zone
asthenosphere		plate tectonics	tension
Benioff zone	normal fault	reverse polarity	thermal convection
compression	normal polarity	rift valley	transform fault
continental drift	paleomagnetism	sea-floor spreading	
lithospheric plate	paleomagnetism	seismicity	
lithosphere	paleontology	strike-slip fault	

Section 4

accretionary prism	carbonate compensation depth (CCD)	Ice rafting	siliceous ooze
Atlantic-type margin	diatoms	Pacific-type margin	slumps
authigenic sediment	foraminifera	pelagic sediment	stratigraphy
biogenic sediment	glacial-marine sediment	radiolaria	terrigenous sediment
bulk emplacement	graded bedding	red(orbrown,or pelagic) clay	till
calcareous ooze		relict sediment	turbidity current

Section 5

Anaerobic	density	molecules	residence time
anion	gas	nonconservative ions	salinity
anoxic	groundwater	nutrient	thermocline
atoms	halocline	parts per thousand (ppt)	vaporization
cation	heat capacity	pH	
Conservative ions	hydrologic cycle	photosynthesis	
deep layer	ion	pycnocline	

Section 6

anoxic	downwelling	Langmuir circulation	upwelling
bottom water	Ekman spiral	pressure gradient	warm-core ring
cold-core ring	Ekman transport	thermohaline circulation	westerlies
Coriolis deflection	geostrophic current	trade winds	western-boundary intensification
deep water	gyre		

Section 7

Antinode	destructive wave	progressive wave	swell
breaker	interference	refraction	tsunami
celerity	dispersion	resonance	wave base
constructive wave	fetch	seiche	wave height
interference	internal wave	shallow-water wave	wavelength
deep water wave	node	standing wave	wave period
		storm surge	

Section 8

amphidromic system	dynamic model of tides	flood current	spring tide
corange line	ebb current	mixed tide	tidal bore
cotidal line	equilibrium model	neap tide	tidal range
diurnal tide	of tides	semidiurnal tide	tidal resonance

Section 9

abyssal zone	diffusion	neritic zone	plankton bloom
aphotic zone	ecology	oceanic zone	surface drag
aspect ratio	epifauna	osmoregulate	turbulent drag
bathyal zone	form drag	osmosis	vertical zonation
benthic province	hydrostatic pressure	pelagic province	zooplankton
benthos	infauna	photic zone	
caudal fin	nekton	phytoplankton	

Section 10

autotrophy	ecosystem	heterotroph	spring diatom bloom
chemosynthesis	food chain	photosynthesis	trophic dynamics
detritus food chain	food web	plankton bloom	upwelling
downwelling	grazing food chain	respiration	

Section 11

beach nourishment	jetty	rip current	surf zone
beach profile	longshore bar	saltation	well profile
breaker zone	longshore current	sand budget	washover fan
breakwater	nearshore zone	sand spit	wave-cut platform
delta	offshore zone	seawall	
dune	overwash	storm profile	
groin	refraction	storm surge	

Section 12

ahermatypic coral	detritivore	high salt marsh	partially mixed estuary
anoxia	flocculation	low salt marsh	salt-wedge estuary
atoll	fringing reef	mangrove	well-mixed estuary
barrier reef	hermatypic coral	mutualism	zooxanthellae

Section 13

cobalt-rich crust	gas hydrates	Law of the Sea	petroleum
EEZ	keystone species	manganese nodules	phosphate deposits
	krill	mariculture	

Section 14

bioaccumulation	dredging	heavy metal	PCBs
biomagnification	eutrophication	Maximum Sustainable	pollution
bioremediation	greenhouse effect	Yield	oil
DDT	Harmful Algal Blooms	pathogen	sewage