

Midterm Vocabulary List

Week 1: Introduction to weather and climate, Introduction to the Pacific Islands

Weather & Climate Terms to Know	Hawaiian & Pacific Terms and Names to Know
Geosphere	Melanesian
Atmosphere	Micronesian
Biosphere	Polynesian
Hydrosphere	copra
Weather	Papahānaumoku
Climate	Nareau

Week 2: Temperature, Clothing, and Fabrics

Weather & Climate Terms to Know	Hawaiian & Pacific Terms and Names to Know
Troposphere	Island Arc-type
Tropopause	Atoll
Stratosphere	Makatea Type Island
Stratopause	High Island
Mesosphere	Lau Hala
Mesopause	mea ulana
Thermosphere	Malo
Heat	Pa’u
Absolute Scale	Kihei
Temperature inversion	Kapa
Daily mean temperature	Saipo
Daily temperature range	Lava-Lava
Annual mean temperature	Puletasi
Annual temperature range	U’a
Specific Heat	Maro
Albedo	Prestige Cloaks

Week 3: Water in the Atmosphere, Clouds, and Stability

Weather & Climate Terms to Know	Hawaiian & Pacific Terms and Names to Know
Mixing Ratio	Ao
Vapor Pressure	Ao ‘ele‘ele
Relative Humidity	Ao Ke’oke’o
Dew Point/Frost Point	Ao Ho’omalumalu
Orographic Lifting	Ao Ho’oweliweli
Frontal Wedging	Iani
Convergence	pūrehurehu/ pūrerehu
Differential Heating	māra kūmara a Ngātoro-i-rangi
Condensation	ao loa
Evaporation	pūtahi

Precipitation	okewa
Transpiration	aopua'a
Dry Adiabatic Lapse Rate	'opua
Moist (Wet) Adiabatic Lapse Rate	aopehupehu
Environmental Lapse Rate	pua'a
Stability: Absolutely Stable, Unstable and Conditional	
High Clouds: Cirrus, Cirrostratus, Cirrocumulus	Vertical Developed Clouds: Cumulus, Cumulonimubs
Middle Clouds: Altostratus, Altocumulus	Fog: Advection, Radiation, Upslope, Steam, Frontal
Low Clouds: Stratus, Stratocumulus, Nimbostratus	Special Clouds: Mammatus, Lenticular

Week 4: Precipitation Processes and Precipitation Types

Weather & Climate Terms to Know	Hawaiian & Pacific Terms and Names to Know
Cloud Condensation Nuclei	Kane
Collision-Coalescence	Kanaola
Bergeron Process	Kawaihapai
Cloud Seeding	Ua
Rain Guage	Ua loa
Drizzle/Mist	Ua poko
Virga	Hau
Sleet	Huahekili
Freezing Rain	waiwaha
Hail	Mīti ua
Rime	Hukarere
ITCZ	
SPCZ	

Week 5: Pressure and Wind

Weather & Climate Terms to Know	Hawaiian & Pacific Terms and Names to Know
Pressure Gradient Force	Westerlies
Coriolis Force	Doldrums
Friction	Trade Winds
Barometer	Jet Streams
Isobar	El Nino & La Nina
Gradient Flow (Wind)	Horse Latitudes
Geostrophic Wind	Cyclonic Flow (NH and SH)
Anticyclonic Flow (NH and SH)	Three Cell Model – Hadley, Ferrell, Polar Cell?

Week 6: Local and Hawaiian Winds

Weather & Climate Terms to Know	Hawaiian & Pacific Terms and Names to Know
Mircoscale, Mesoscale and Macroscale Winds	Pāka'a
Eddy	La'amaomao
Sea Breeze and Land Breeze	Kūapāka'a
Mountain Breeze and Valley Breeze	kama'āina
Country Breeze	malihini

Urban Heat Island	
Chinkook, Katabatic, Santa Ana Winds	
Haboob	

Hawaiian & Pacific Terms and Names to Know Island Wind Names to Know	
Māluualua	Wa'a
Kuilua	Kau
'Ili'ililauākea	Ho'oilu
Limulipu'upu'u	Mumuku
'Ala'eli	Ho'olua
Malailua	Kula'ipau
Kumuma'oma'o	ahupua'a
Ūkiuki	Mokupuni
Pa'ūpili	Moku
'Olaukoa	'ili
Ma'a'a	Kīpu'upu'u
'Imi-hau	Nāulu
Kaua'ula	Moa'e
Hau	Ua Kea
'Āpa'apa'a	Moani

Week 7: Ocean Currents and Waves

Weather & Climate Terms to Know	Hawaiian & Pacific Terms and Names to Know
Surface Currents	kaha nalu
Pycnocline	no ka pakaka ale (pākākā nalu)
Deep Current	he'e nalu
Thermohaline Circulation/Ocean Conveyor Belt	olo
Gyre	alaia
Wave height	kaha nalu
Wave length	pae po'o
Crest	he'e one
Trough	he'e pu'e wai
Wave refraction	papa olo
Surf Zone	pap kīko'o
Fetch	papa alaia
Seas	papa li'ili'i (paipo)
Semidiurnal Tides	Duke Kahanamoku
Diurnal Tides	haole
Mixed Semidiurnal Tides	`ikuwa
Spring Tides	kapu
Neap Tides	
Spilling Breaker	
Plunging Breaker	
Surging Breaker	