

SWETRealm label	ENVO ID	ENVO label	comments
blizzard	ENVO:01000903	blizzard	
calf	ENVO:01001506	ice calf	
congelation ice	ENVO:01001515	freshwater congelation ice	
depth hoar	ENVO:01001846	depth hoar	
drift ice	ENVO:01001517	drift ice mass	
fast ice	ENVO:01001522	fast ice	
firn	ENVO:03000002	firn	
floe			SWEET has both floe and ice floe as sister classes subclass to sea ice one of them is equivalent to the other hence I think it's a duplicate. ENVO has ice floe subcl
frazil ice	ENVO:03000046	frazil ice	Note ENVO:frazil ENVO_01001523 seems similar to frazil ice perhas a duplication as both are subclass to new ice within the environmental material hierarchy
freezing rain	ENVO:01000896	freezing rainfall	ENVO also has freezing of water into water ice, ENVO_01001549
frost	ENVO:01001850	frost	
glacier	ENVO:00000133	glacier	Mapped in <a href="https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv">https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv</a>
graupel			Doesn't look like there's an equivalent class in ENVO <a href="https://en.wikipedia.org/wiki/Graupel">https://en.wikipedia.org/wiki/Graupel</a>
granular ice			Unclear
hail			Has processes hailstorm and hailfall but no material
hail storm	ENVO:01000880	hailstorm	
heavy snowfall			no
hoar crystal			Not sure, the ENVO hoar hierarchy ENVO_01001845 could use a cleanup some are lacking definitions
hydrate	ENVO:01000850	clathrate material	Perhaps this maps I'm not sure double check this
ice	ENVO:01000277	water ice	Check if it maps better to ENVO:ice
ice crystal	ENVO:01000846	water ice crystal	
ice floe	ENVO:03000065	ice floe	
ice particle			Unclear
ice pellet			Unclear
ice shelf	ENVO:00000380	ice shelf	
ice stream	ENVO:03000018	englacial stream	NOT SURE about this mapping double check this
ice storm	ENVO:01000882	icestorm	
iceberg	ENVO:00000298	iceberg	Mapped in <a href="https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv">https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv</a>
ice field	ENVO:00000299	ice field	Mapped in <a href="https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv">https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv</a>
ice sheet	ENVO:00000132	ice sheet	Mapped in <a href="https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv">https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv</a>
icing			IN SWEET subclass to meteorological phenomena
kaavie			subclass to heavy snowfall in SWEET no idea what this is
killing freeze			Doesn't look like there's an equivalent class in ENVO
landice	ENVO:00000131	glacial feature	Mapped in <a href="https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv">https://github.com/EnvironmentOntology/envo/blob/master/mappings/sweetrealm-mapping.tsv</a>
lake effect snowstorm			No seems like strange precomposed class
lake effect snow			No seems like strange precomposed class
lead	ENVO:01001551	ice lead	in sweet subclass to sea ice, in envo within the layer hierarchy, double check this
light freeze			Doesn't look like there's an equivalent class in ENVO
light frost			Doesn't look like there's an equivalent class in ENVO
pack ice	ENVO:01001556	pack ice mass	
permafrost	ENVO:00000134	permafrost	
rime	ENVO:01001848	rime	
sea ice	ENVO:00002200	sea ice	
seasonal ice			ENVO has a sea ice hierarchy which includes first year ice with seasonal ice as a related synonym, but not as an exact synonym so perhaps this can be further pinned down.
sleet			Doesn't look like there's an equivalent class in ENVO, be a good thing to add if it's not in envo.
snowfall	ENVO:01000895	snowfall	
snow	ENVO:01000406	snow	
snow facies			Unclear
snow grain			No direct mapping
tabular iceberg	ENVO:01001534	tabular iceberg	