## Marine Ice:

Iceberg vs. Ice flow (Pack Ice)
Iceberg originates on land - Firn field/snow field - fresh water
Marine Glacier moves into sea and breaks
Ice flow formed by ocean I-H2O froze
Iceberg - NA - Highly Jagged + splintered - smaller than - very dense float low in H20
50 miles long max usually 4 miles long or less
100-150 feet high (900 feet below surface) - Titanic
IIP: 43-47 degrees North - Labrador + East Greenland current - Boston 42 degrees 37
degrees
Further south @ 30 North (Southeastern most iceberg limit)
Mass and H20 temp allows for life span of 2-3 years
Bergs are carried by currents (Labrador) as opposed to
Antarctic Ice bergs - less dense - tend to stay within west wind drift current
Smaller-higher out of H2O temp allows for life span of 2-3 years
H2O 35 degrees south latitudes farthest point North visually for icebergs
Pack Ice or Icebergs are common
Pack ice or Ice flow - Pancake vs. Fast Ice = Salt water

FP @ 35 =-1.9 degrees C
Ice $=$ Salt + Ice
$\underline{\text { Pacific Ice Area - Max 250-300 miles into the ocean }}$

Ice Salinity: 4-5
Surface erodes and new ice from below is less saline
Sea Ice Age: 5-6 years
10-30 meters thick on thick areas (ridges/average $=9$ meters)

## North Hemisphere Sea Ice differs because:

Season
Land mass temp
Ocean US land mass area Ice Islands
Iceberg Deep (Ice Pack)
Ti - T2: Salt water
$4-5$ years +3000 miles: Ocean Drift
Note: There are Distinctions of Ocean H20: Vertical water circulation
SW: Surface
UW: upper
IW: indetermediate
DW: Deep
BW: Bottom
Gulf Stream - Franklin
Agassiz
Gulf Stream: 100 miles wide in narrows ( 95 Nauts)

