

Safety on Sea Ice

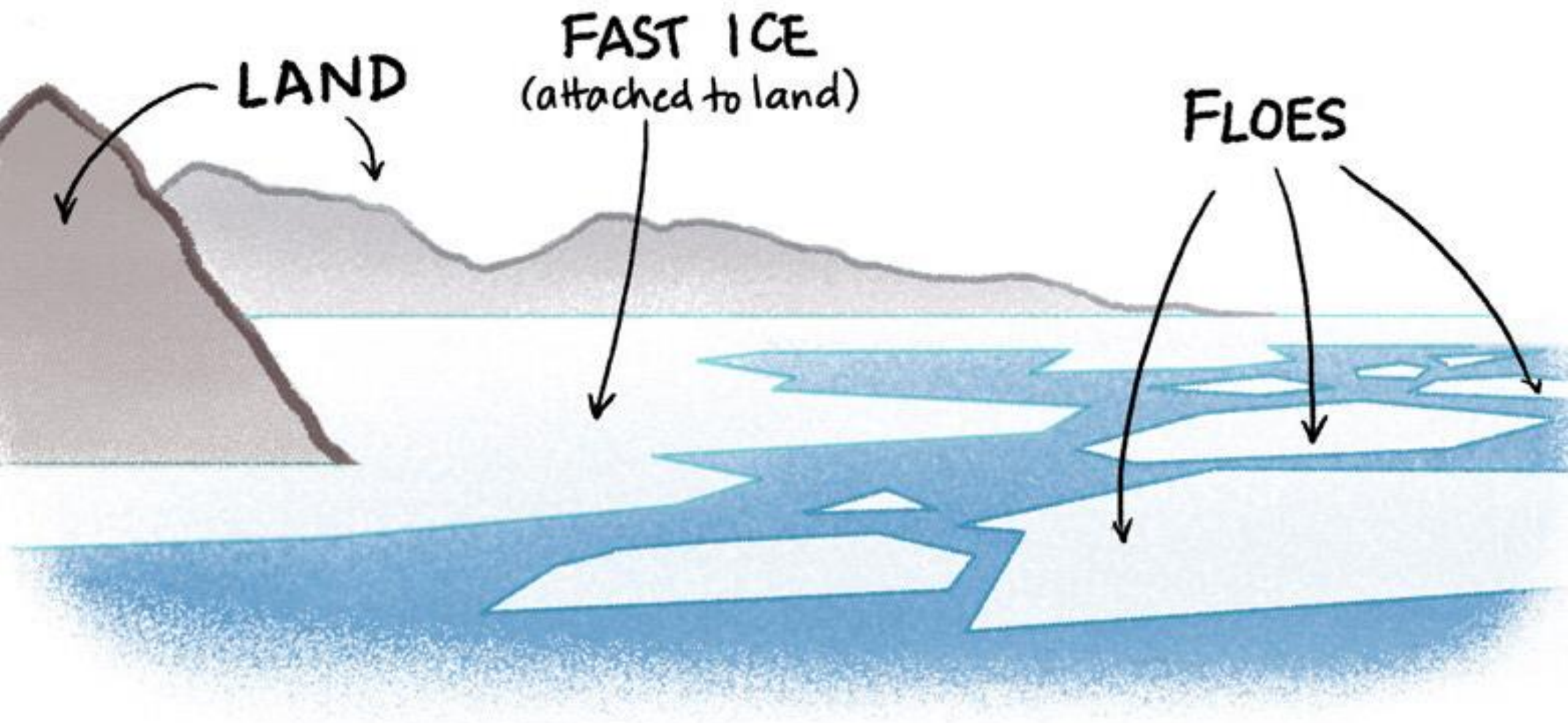
Instructors: Marcos, Stuart and Trude



<https://www.youtube.com/watch?v=y2v9P6htUA4>

Svalbard sea ice and why we need to talk about this















Safety on Sea Ice

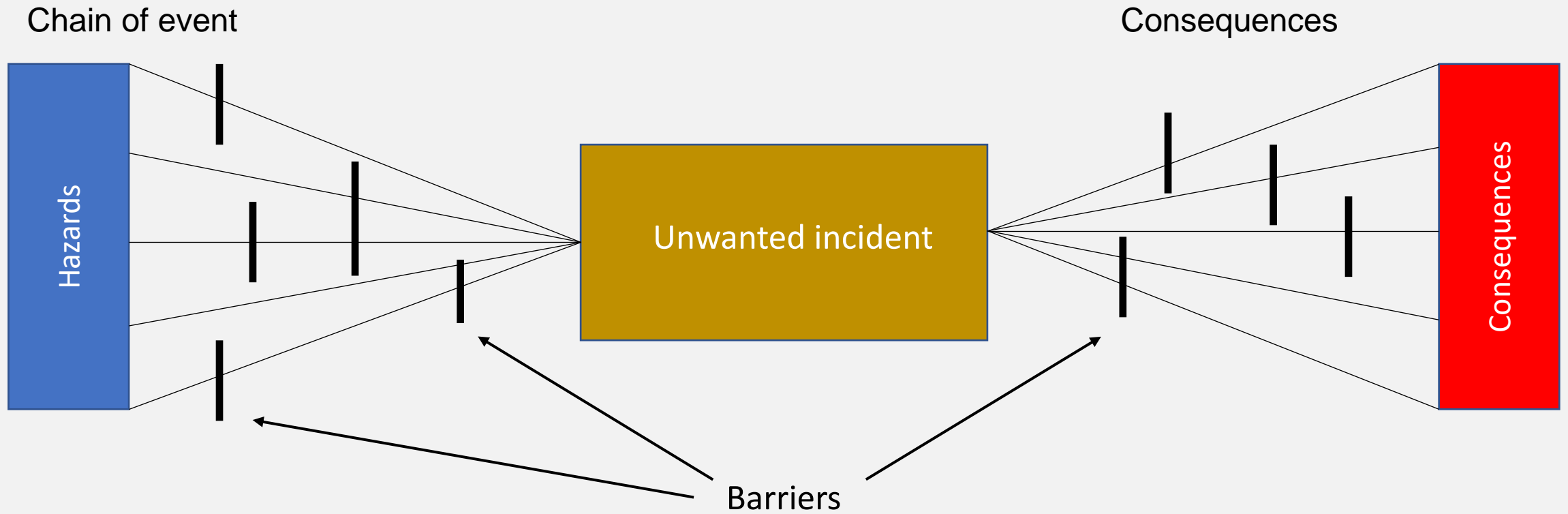
Goals for this lesson:

- Practice self and buddy rescue!

With use of “bow tie model” and 3x3 filter:

- What is special about Svalbard-sea ice
- Critical limits
- Avoiding falling through & what to do if

UNIS bow-tie model

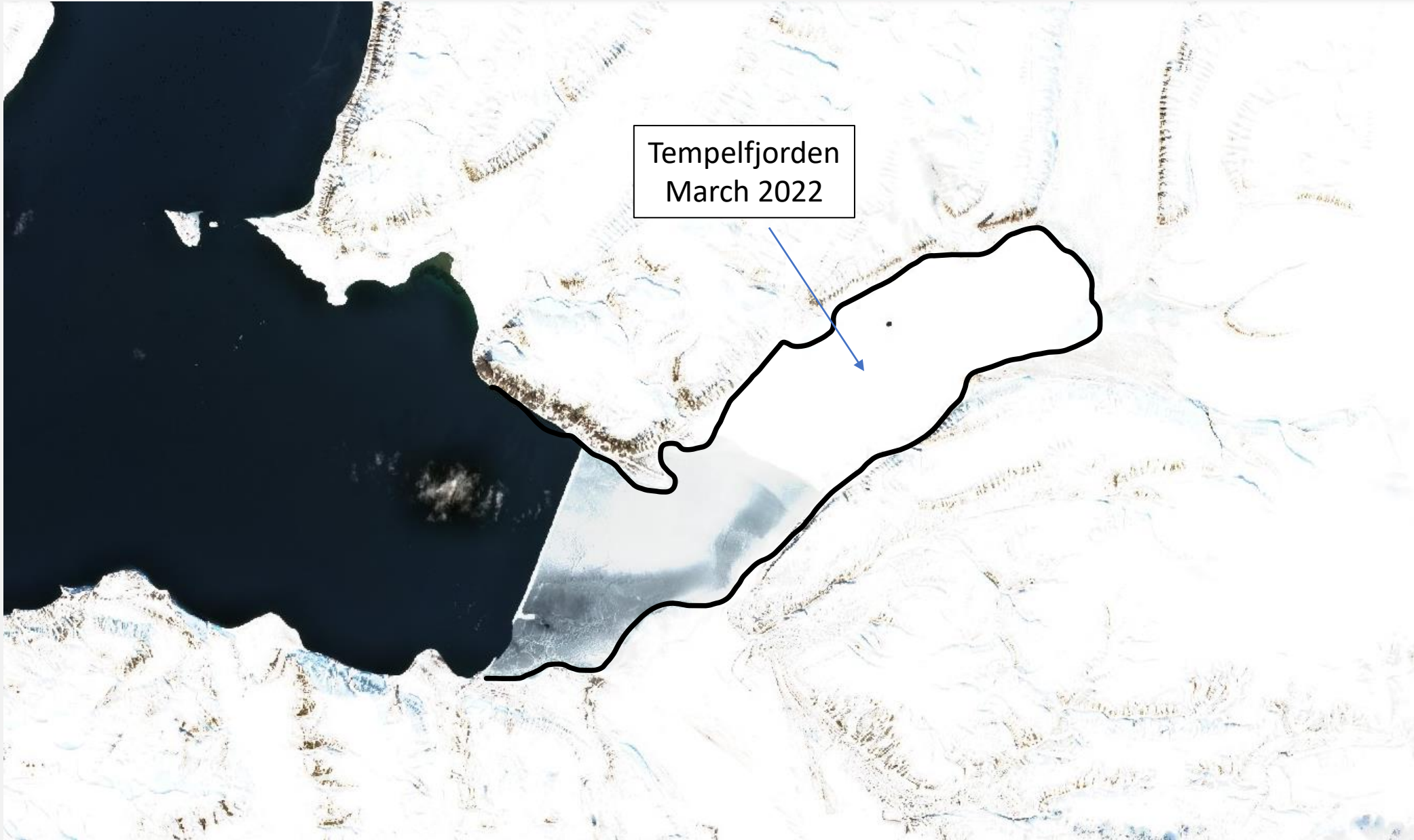


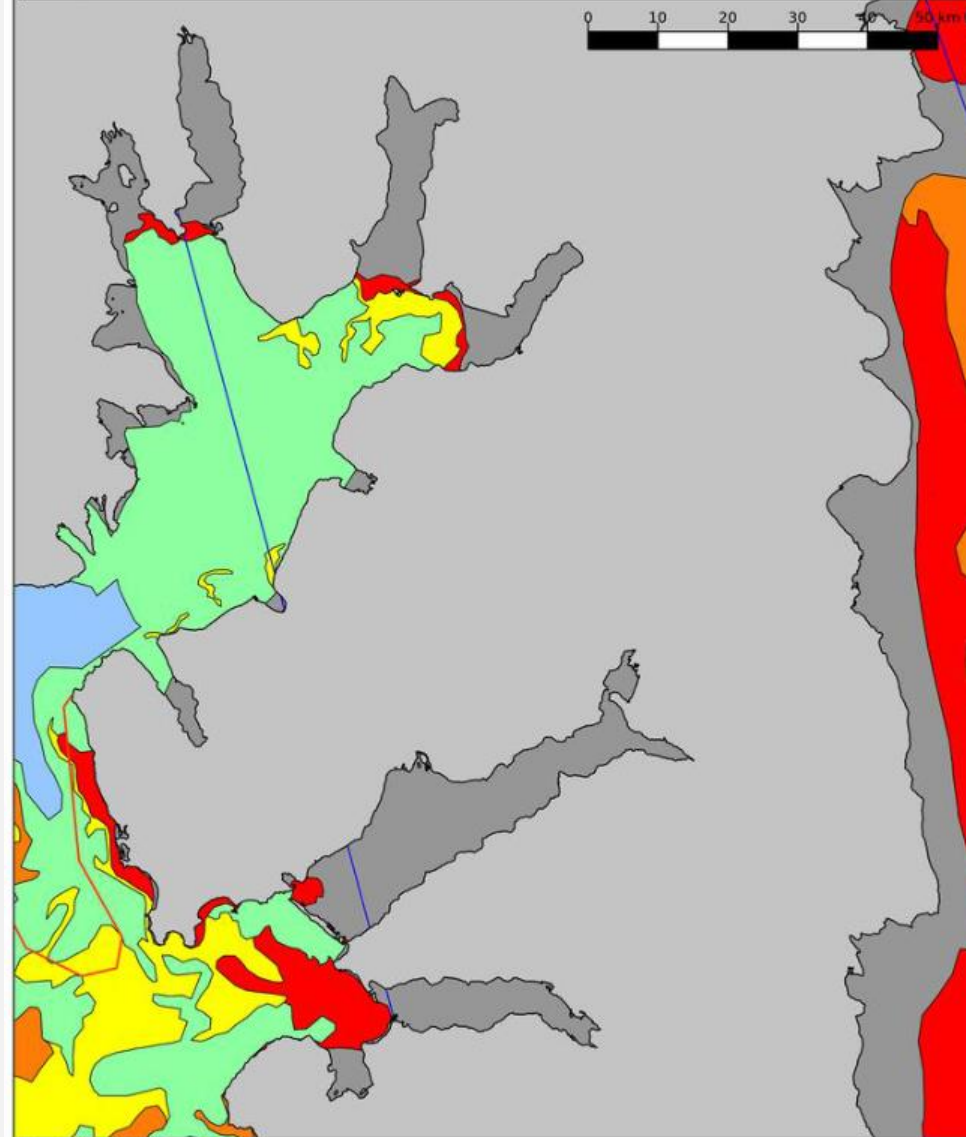
Sea Ice resources

- [Met.no icecharts](https://www.met.no/en/icecharts)
- [Sentinel HUB](https://www.sentinel-hub.com/)
- [Sentinel Playground \(daylight\)](https://www.sentinel-hub.com/playground/daylight/)
- People !
- Facebook - Farer/Føre/Vær/Snø/Vindhull/Elver/Daler/Hytter/Gleder osv.



Tempelfjorden
March 2022





Ice Categories

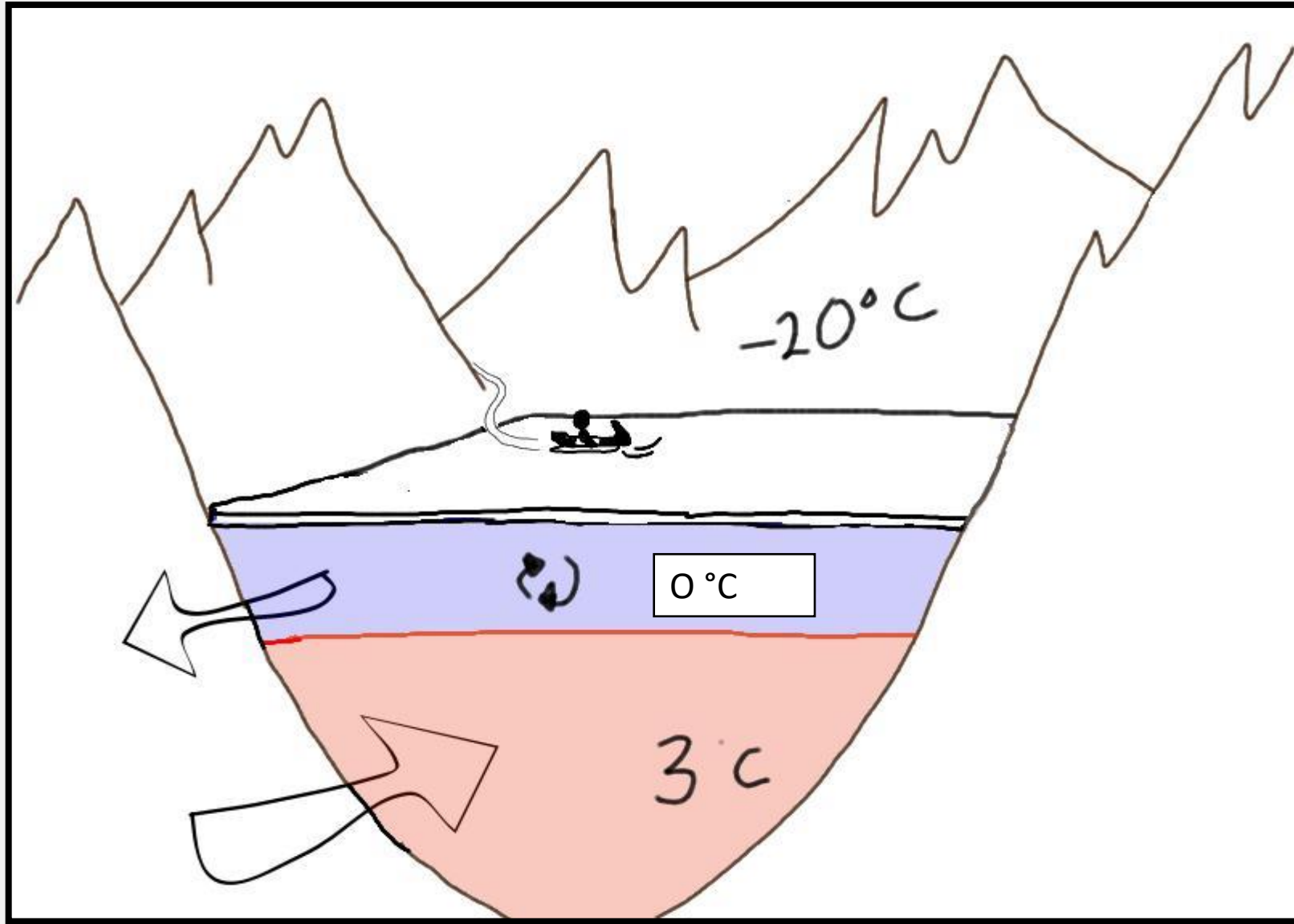
10/10th	Fast Ice	7-8/10th	Close Drift Ice	1-4/10th	Very Open Drift Ice
8-10/10th	Very Close Drift Ice	4-7/10th	Open Drift Ice	0-1/10th	Open Water

Projection: Polar Stereographic, True Scale at 90°N, WGS84
Map Corners:
UL = 79°4'25.256"N, 14°29'46.648"E UR = 78°42'9.052"N, 20°34'57.123"E
LR = 77°0'43.117"N, 17°47'15.489"E LL = 77°19'55.529"N, 12°27'21.280"E
Coastline Data: GSHHS version 2.2.0 (<http://www.soest.hawaii.edu/wessel/gshhs/>)



Sentinel-1
Radarsat-2

Sea Surface
Temperature





Sea ice
minimum equipment



Driving snowmobiles on sea ice





Wrapping up

- Sea ice conditions can change very rapidly
- Safe thickness is 30 cm
- You have very little time in cold waters
- Focus should be on avoiding breaking through sea ice
- Bring necessary equipment
- Training is necessary!