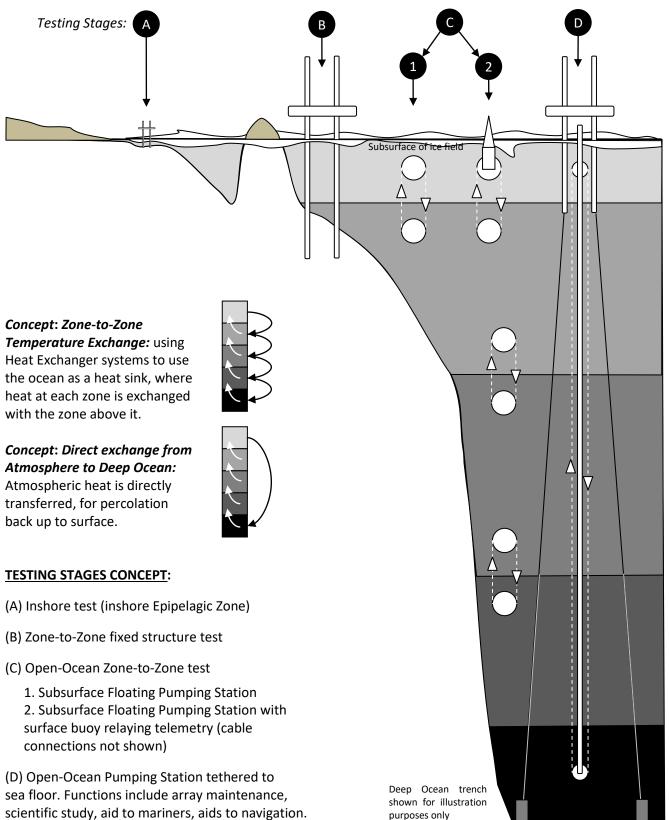
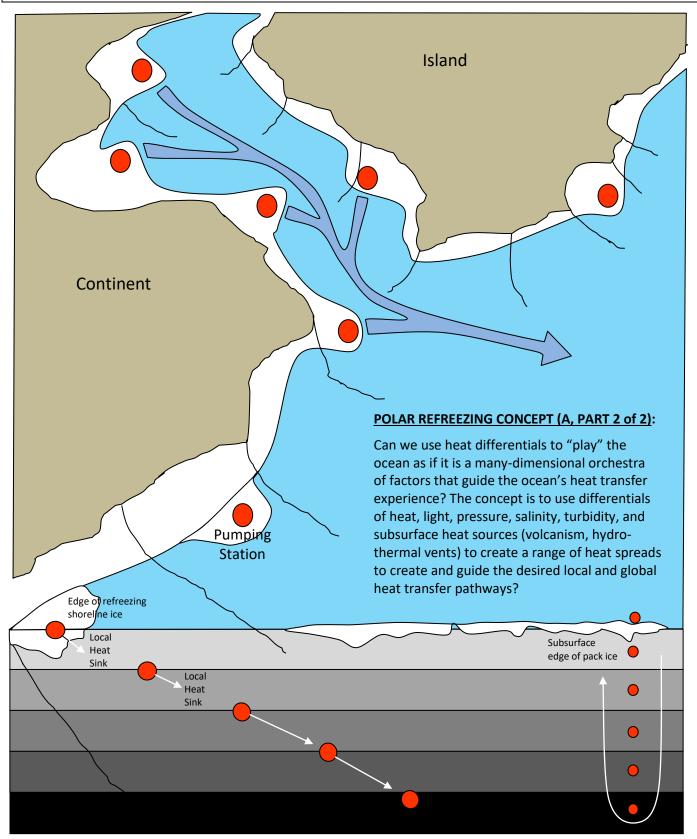
POLAR REFREEZING CONCEPT (A, PART 1 of 2):

Use differentials (temperature, salinity, pressure, etc.) as heat exchange mechanism (note1)



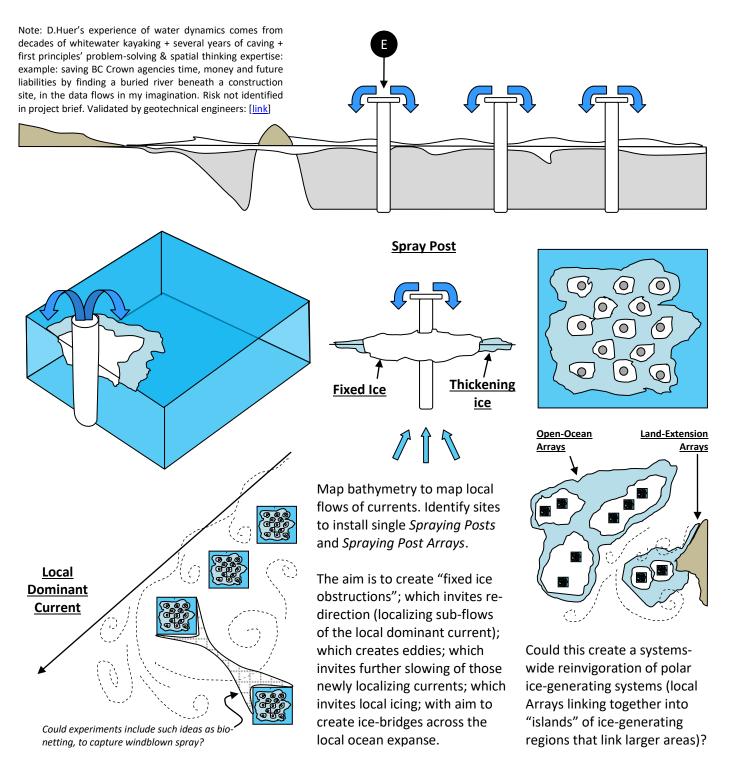
(1) <u>Knowledge example</u>: During Crown-funded 'flood control' consulting work (link, p3), theorizing that there was a worsening of the <u>2009 Cowichan River</u> <u>flood</u>, by hypothesizing creation of a *Salt Wedge Dyke* (coined term) in hemmed-in estuaries; in which salt/freshwater density differentials creates a liquid sea wall or dyke, which induces floodwaters' upstream rebounding. Summary available. A Euro scientist told me that this is a rarely studied phenomenon. The *Salt Wedge Dyke* hypothesis has been passed to Dutch authorities via *Amsterdam in Business*, and to Cowichan First Nation.

09Jun2022-b



POLAR REFREEZING CONCEPT (B) = "SPRAYING POSTS" & "SPRAYING POST ARRAYS":

Use Spraying Posts to create islands of fixed ice; to invite temperature changes; to invite growth of thickening ice; to invite growth of surrounding ice fields. This simultaneously aids restoration of local habitats. *Posts* could be a new design or repurposed Oil & Gas (O&G) Drilling Rigs.^(note 2) Must minimize contamination of local ecosystems. Designs must be modular; to cut installation & operating costs to achieve economies of scale.



(2): Repurposing O&G Rigs offers certain benefits: (a) Riggers are experienced in ocean operations = valuable expertise. (b) Donation or at-cost sale of rigs to the program offers tax benefits to operators vs. write-down/write-off. (c) O&G operators could enjoy market benefits; however their involvement could be intended to be part of a greenwashing campaign, so it may be prudent to restrict involvement to O&G firms who completely transform themselves to Clean Energy companies (must cap wells, wind up operations, return licenses to governments, and not sell licenses and operations to other companies).