What shall we do about the deepest pressure test

Currently: 10% of CONFIG_ProfilePressure_dbar throughout

Implemented at the Coriolis DAC (1): a varying percentage of CONFIG_ProfilePressure_dbar (150% at 10 dbar reduced linearly to 10% at 1000 dbar; 10% below 1000 dbar): result is a pressure tolerance increasing from 15 dbar (at 10 dbar) to 405 dbar (at 550 dbar) before shrinking to 100 dbar (at 1000 dbar). For deep Argo, the tolerance would be 400 dbar if the target depth is 4000 dbar.

Alternative (2): a short table with pressure ranges of CONFIG_ProfilePressure_dbar

less than 100 dbar	tolerance	200 dbar
100-200 dbar	tolerance	300 dbar
200-700 dbar	tolerance	400 dbar
700-900 dbar	tolerance	300 dbar
900-1000 dbar	tolerance	200 dbar
More than 1000 dbar	tolerance	200 dbar

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Alternative 3: combine proposed options 1 and 2

That would mean:

- Use a tolerance determined as a percentage of CONFIG_ProfilePressure_dbar approach up to 1000 dbar
- Use a 200 dbar tolerance below 1000 dbar

Jean Philippe feedback:

- proposed to do tests for the Coriolis DAC (after ADMT), to see if that would make a difference.
- Said that for NKE floats, there is an emergency ascent procedure that is triggered if the float reaches the “emergency bailout pressure” (4220 dbar; they typically profile to 4000 dbar). This indicates that a threshold around 200 dbar (option 2 or 3) is reasonable for deep NKE floats (and probably others as well).