

Notes on the GSW function `gsw_t_from_CT` for calculating in situ temperature t from Conservative Temperature Θ

This function essentially amounts to the following calls to two other GSW functions,

```
pr0 = zeros(size(SA));  
pt0 = gsw_pt_from_CT(SA,CT);  
t = gsw_pt_from_t(SA,pt0,pr0,p);
```

That is, from the inputs (S_A, Θ) potential temperature (referenced to zero dbar) is first formed. Then the function `gsw_pt_from_t` is called with the “bottle” being $(S_A, \theta, 0)$ and the reference pressure being p , so delivering the in situ temperature at p .