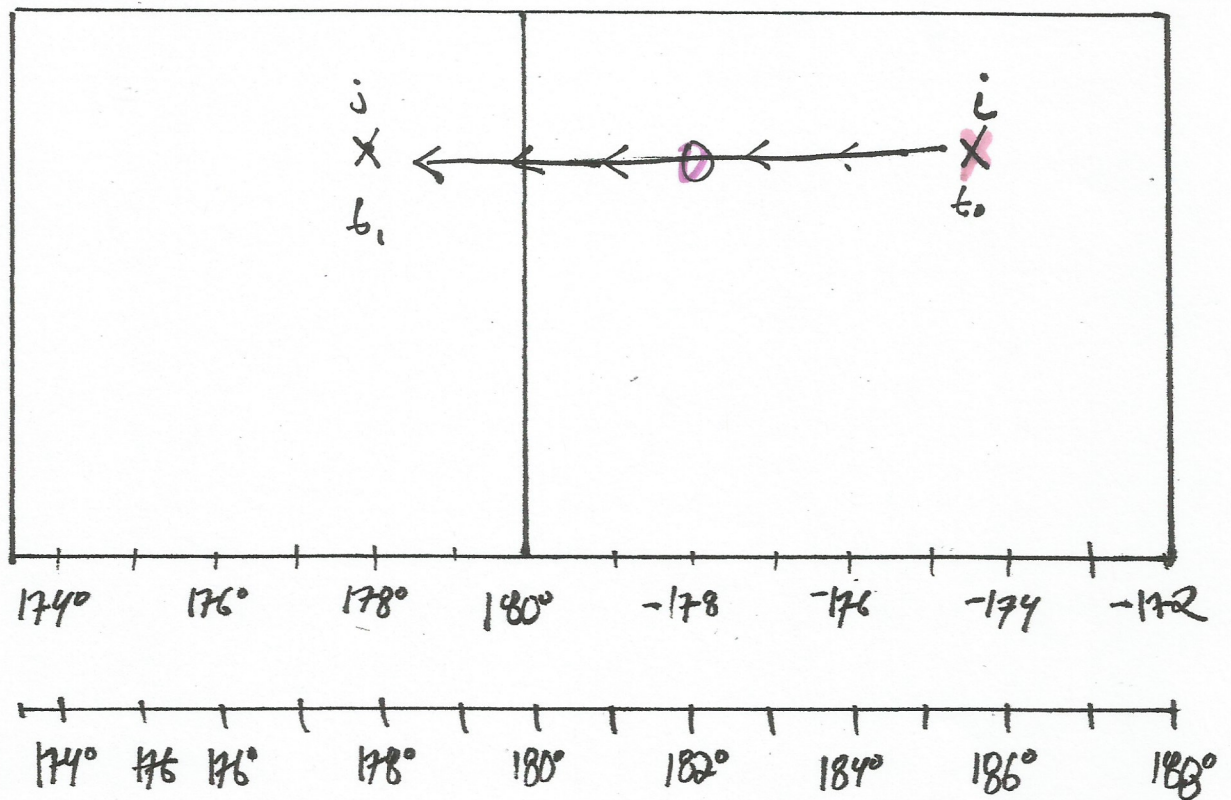


Example 1



$$i = -174 \text{ (186)}$$

Algorithm: $j - i$ (distance)

$$j = +178 \text{ (178)}$$

Fleet moved west, negative (-)

At end of algorithm ^{if > 0} you add (+) shift to i

$$\Delta = 178 - 186 = -8$$

let's assume interpolation in middle, -4

$$\circ \circ i + -4 = 186 + (-4) = 182$$

At end, count back to +180: -180

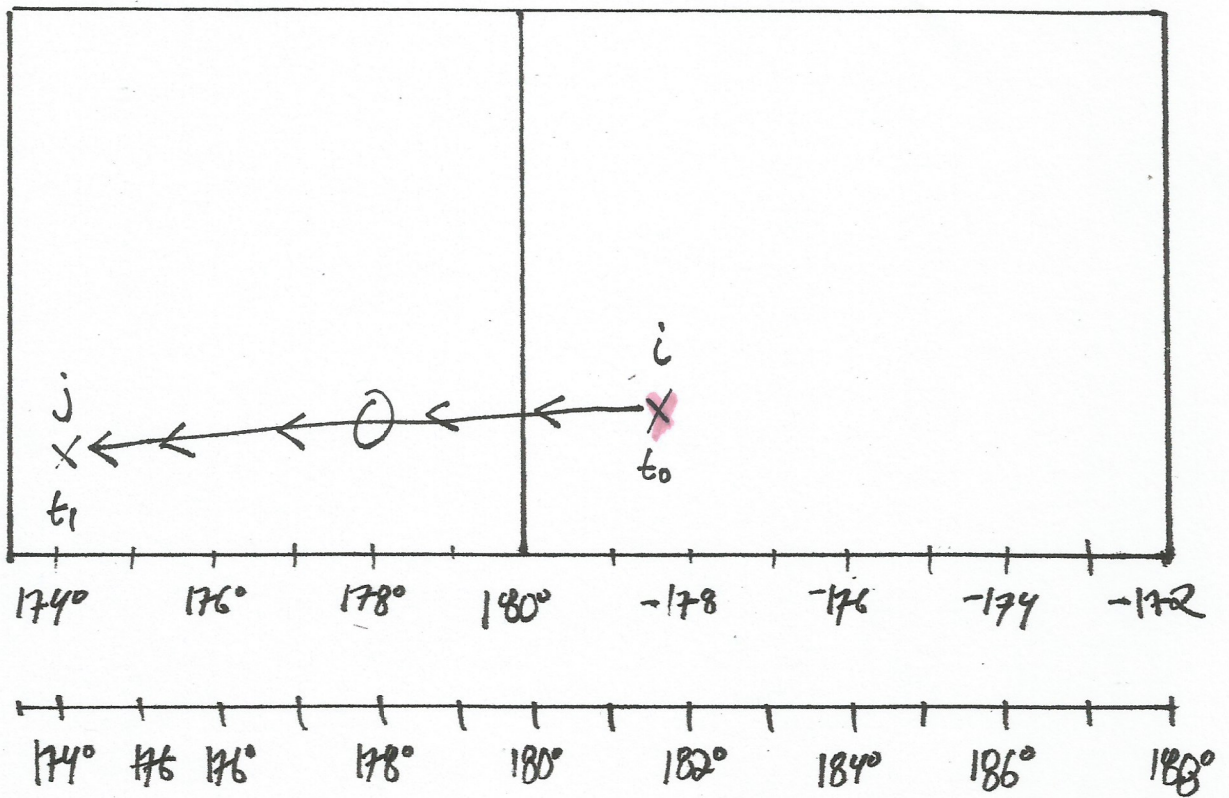
$$\hookrightarrow +182 = +182 - 360 = -178 \checkmark$$

i or j : if negative @ 360
• use for remainder
of algorithm

• @ end, if interpolation
> 180, subtract 360

27-July-2022

Example 2



$$i = -178^\circ \text{ (182)}$$

Algorithm: $j - i$ (distance)

$$j = +174 \text{ (174)}$$

Float drifts west, negative (-)

At end of algorithm, gps.py, you add (+) drift to i

$$A = 174 - 182 = -8$$

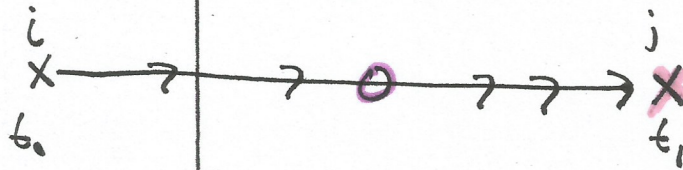
Let's assume interpolator in middle, -4

$$\therefore i + -4 = 182 - 4 = 178 \checkmark$$

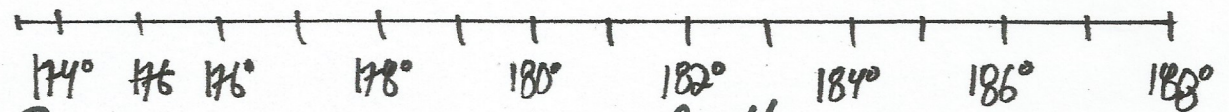
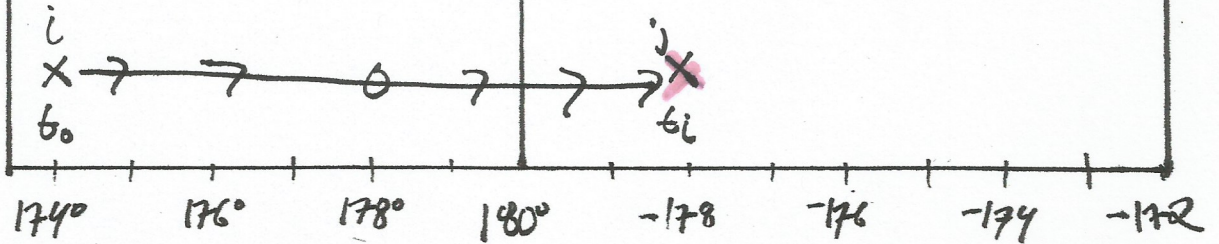
↑ This is ~~7~~ 7 = 180, so all good

27-July-2022

1



2



Example 3

1: $i = +178$ (178)

$j = -174$ (186)

~~$A = i - j =$~~

$A = j - i = 186 - 178 = +8$

+4 drift

$\hookrightarrow i + \text{drift} = 178 + 4$
 $= 182$

$182 > +30, \therefore$ subtract 360

$= -178 \checkmark$

Example 4

2: $i = +174$ (174)

$j = -178$ (182)

$\Delta = j - i = 182 - 174 = +8$

+4 drift

$\hookrightarrow i + \text{drift} = 174 + 4$

~~$= 178$~~

$= 178 \checkmark$