

Events.py

Pg. 131*

L124: Sel converts the date from the UTC of the trigger (sample # 7000) to the UTC time of the first sample of the campaign.

[1]

$$\text{self.date} = \text{self.date} - \text{float}(\text{self.trigger}) / \text{self.duration} - fs$$

The problem is that the sample indices go from 1:N, not 0:N-1

\therefore the bias should be

[2]

$$\text{self.date} = \text{self.date} - [\text{float}(\text{self.trigger}) - 1] / \text{self.duration} - fs$$

because if the trigger sample were 1 ...

in [1]: $\text{self.date} = \text{self.date} - 1/20$

in [2]: $\text{self.date} = \text{self.date} - 0/20$

The first case, as Sel has written it says that if the trigger occurs on the first sample then you must remove time from the reported date.

That implies the sampling index starts @ 0, which, according to manual-VD2.pdf pg. 33

"...TRIG=250 \Rightarrow the date given corresponds to the timestamp of the 250th sample"

This means that all times in MERMAID data are earlier by $1/20$ s, meaning that all travel times should be adjusted by $+1/20$ s.