

carmenes

Instrument performance



Florian F.
Bauer
IAA

carmenes

VIS



VIS @ room temp.

550nm-1 μ m

R = 94600

ThNe, UNe, UAr
Fabry Perot

NIR



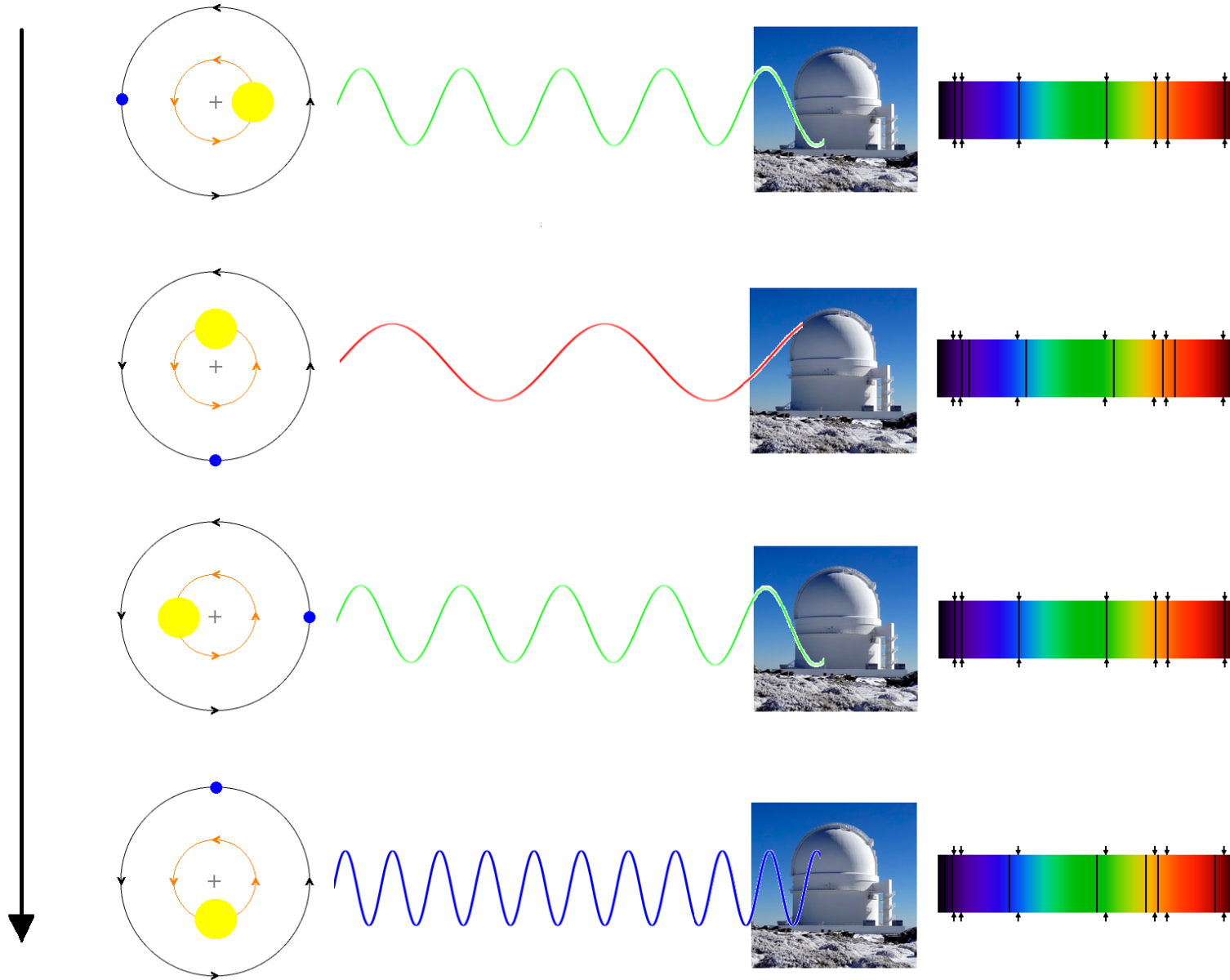
NIR @ 140K

1 μ m -1.7 μ m

R = 80400

UNe
Fabry Perot

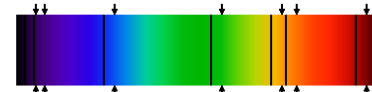
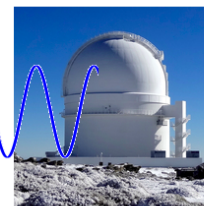
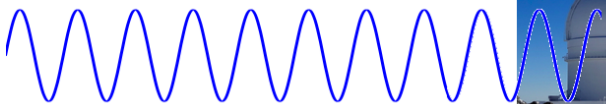
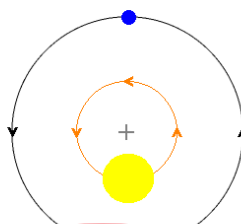
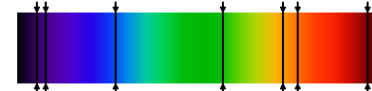
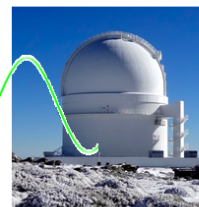
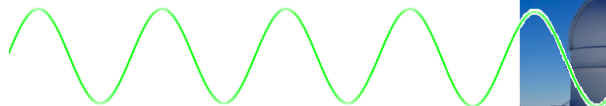
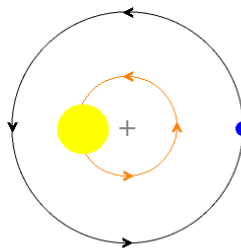
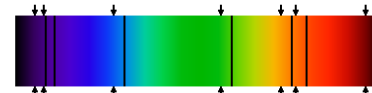
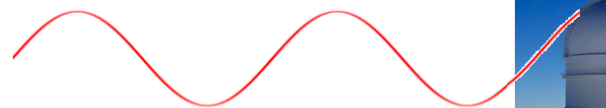
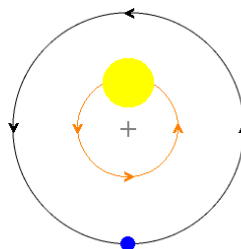
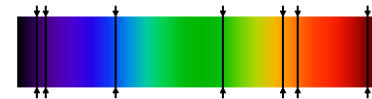
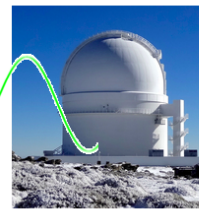
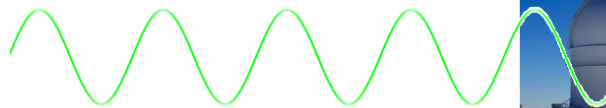
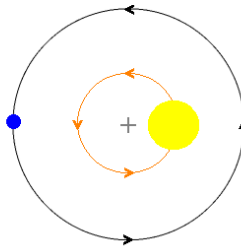
TIME



ThNe, UNe, UAr
Fabry Perot

UNe
Fabry Perot

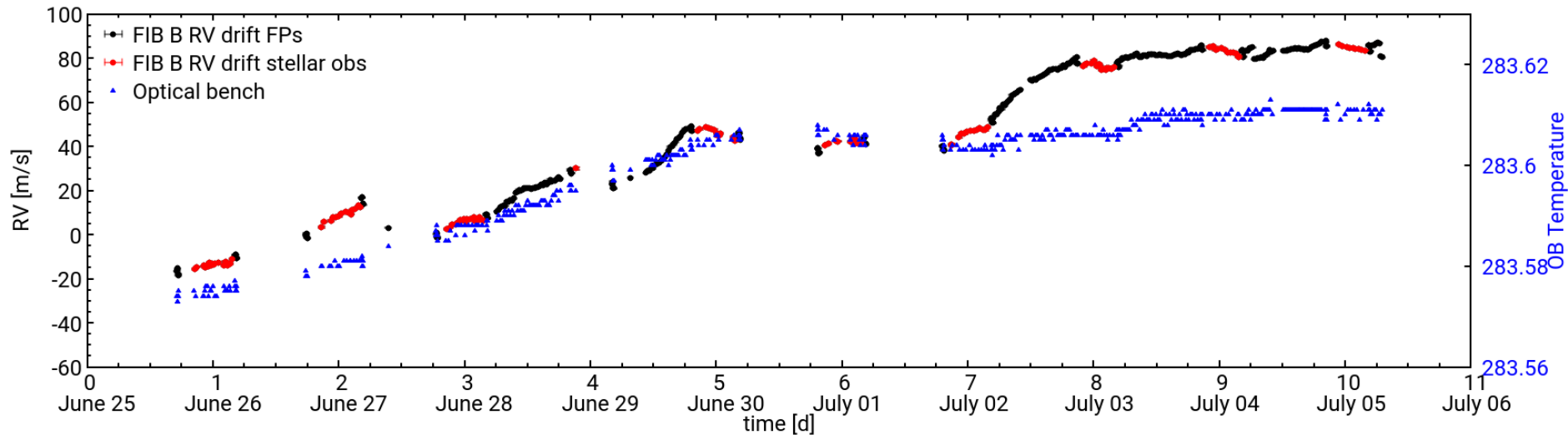
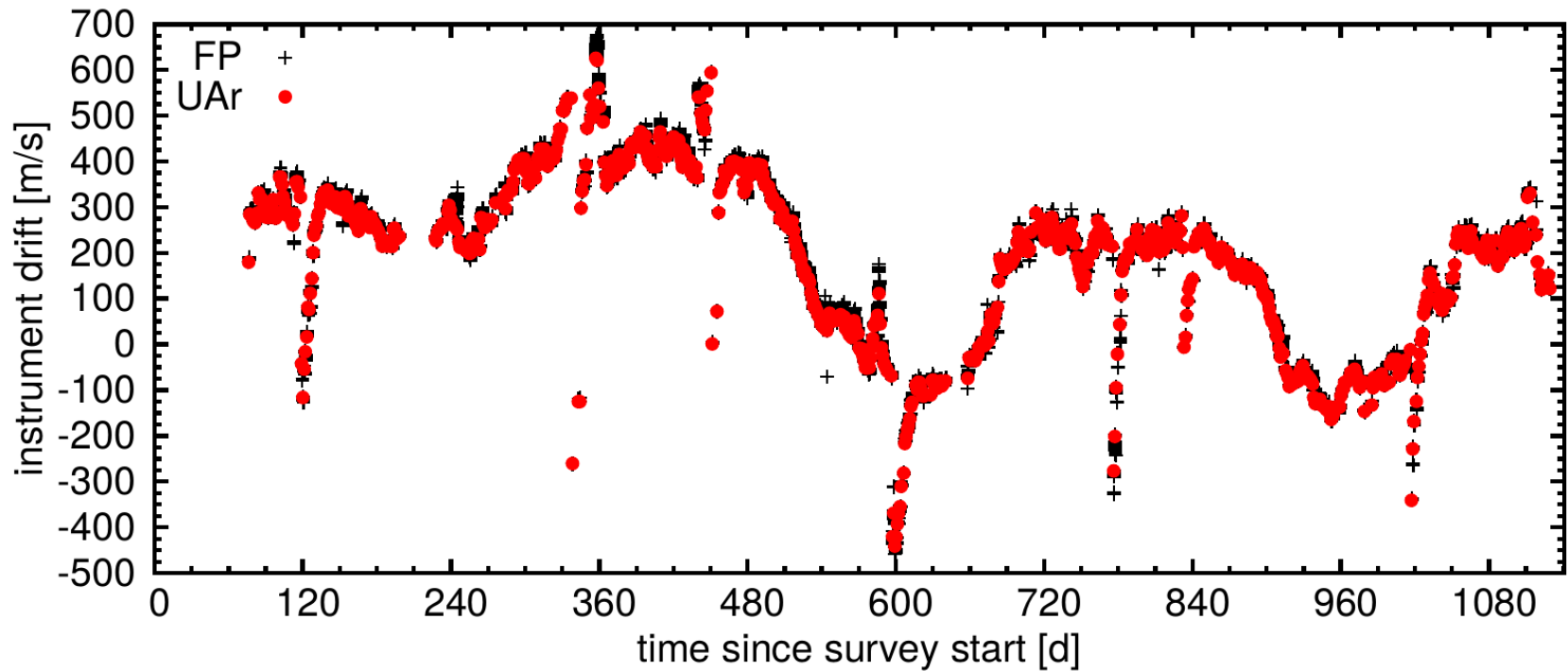
TIME



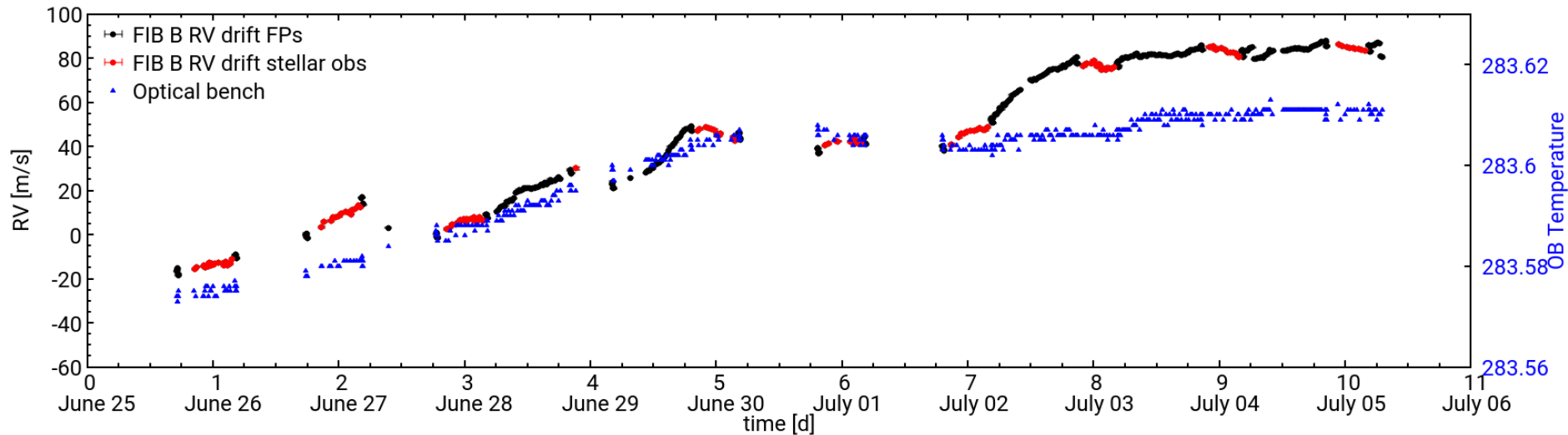
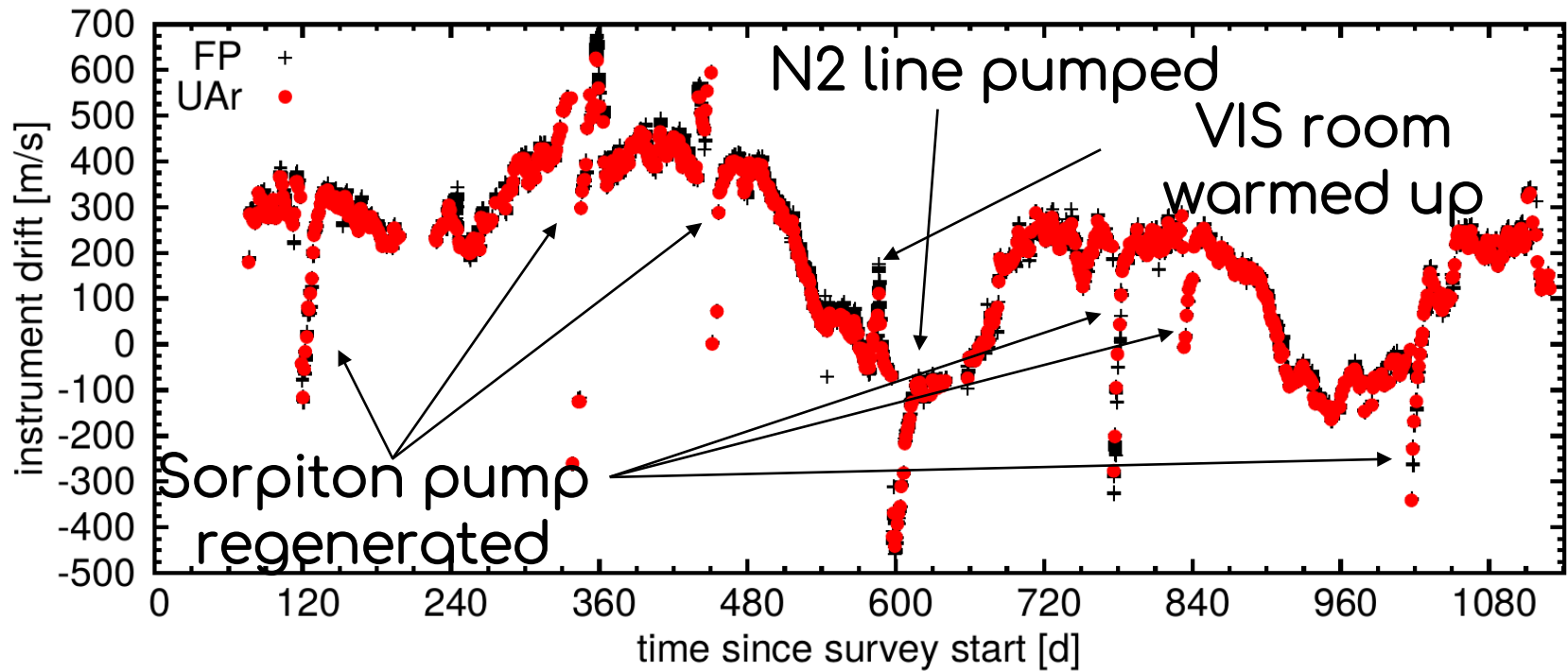
ThNe, UNe, UAr
Fabry Perot

UNe
Fabry Perot

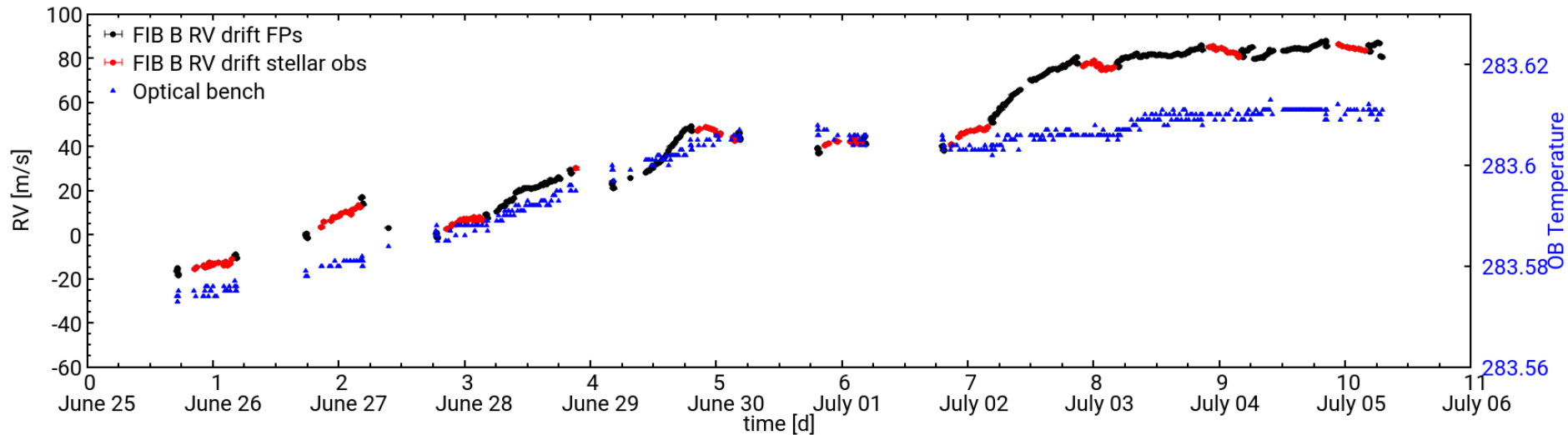
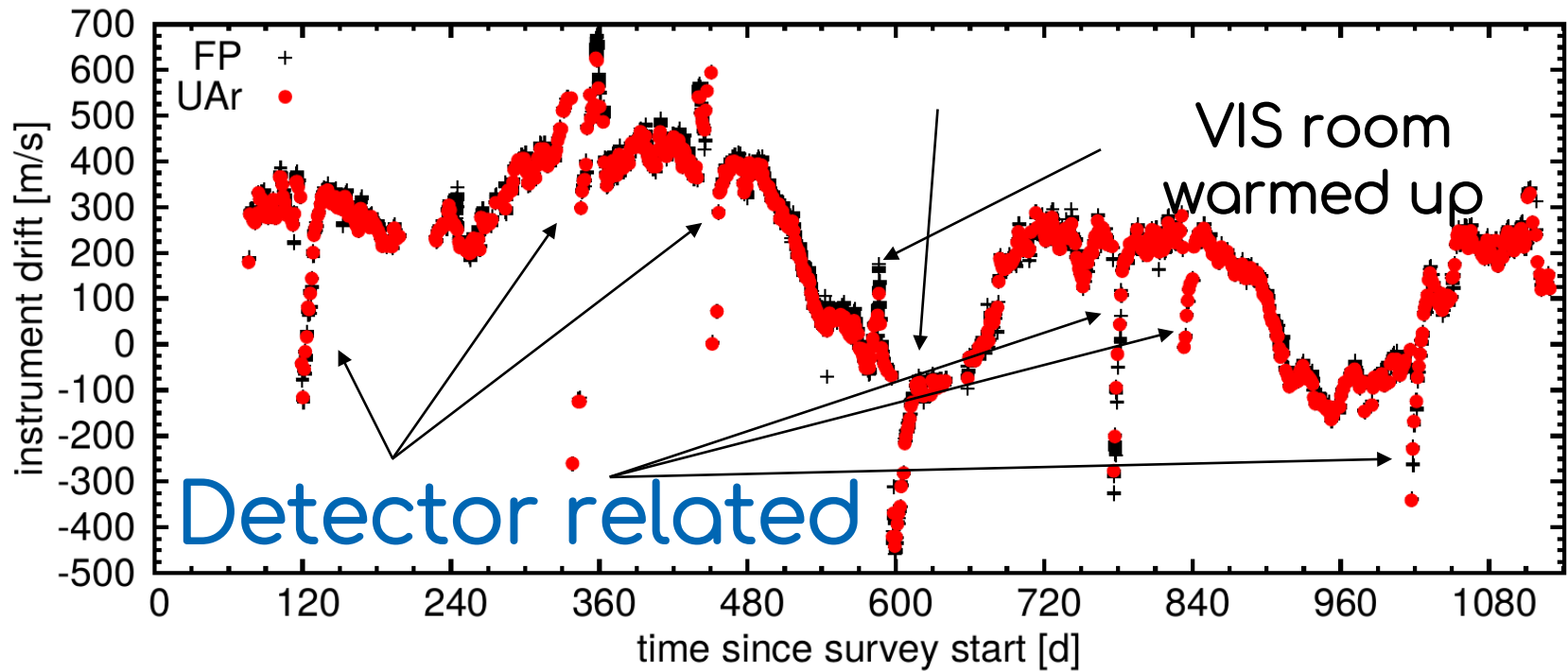
Instrumental drift VIS



Instrumental drift VIS



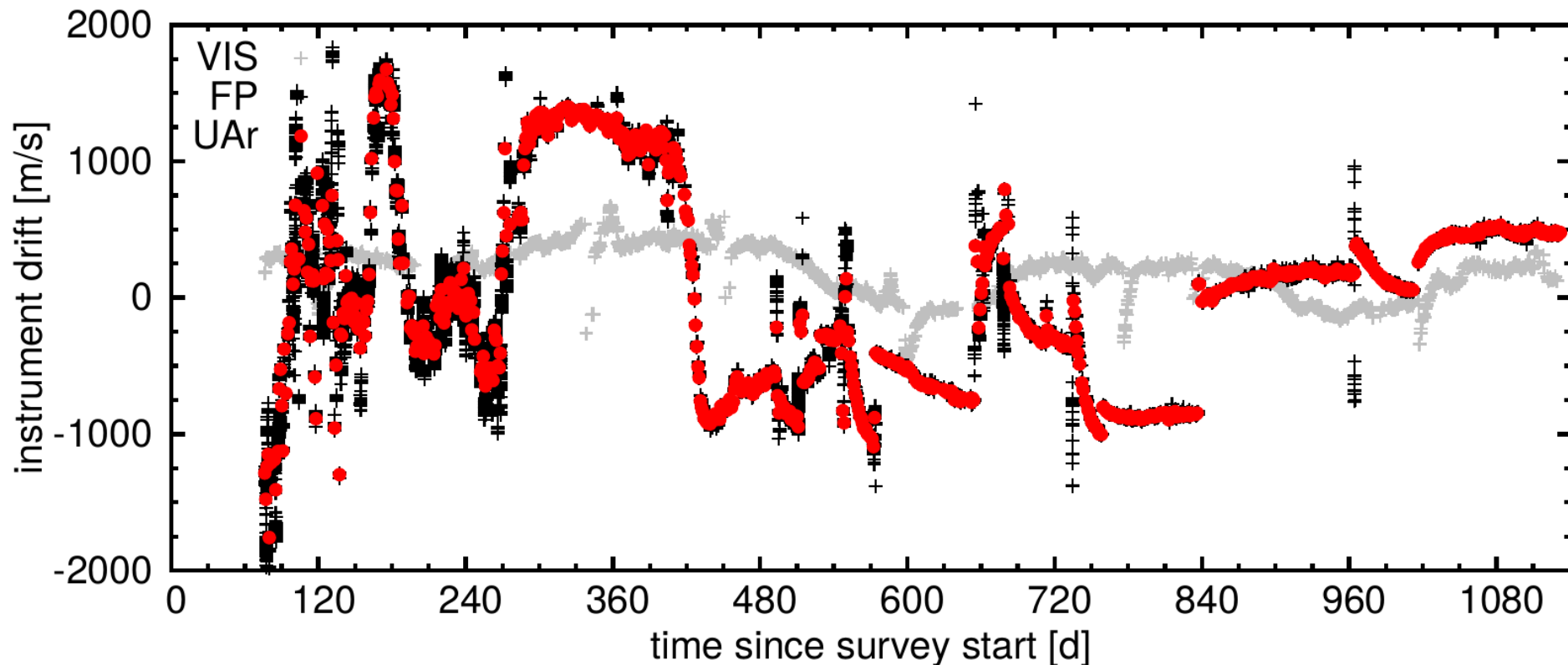
Instrumental drift VIS



Instrumental drift NIR



Long term:

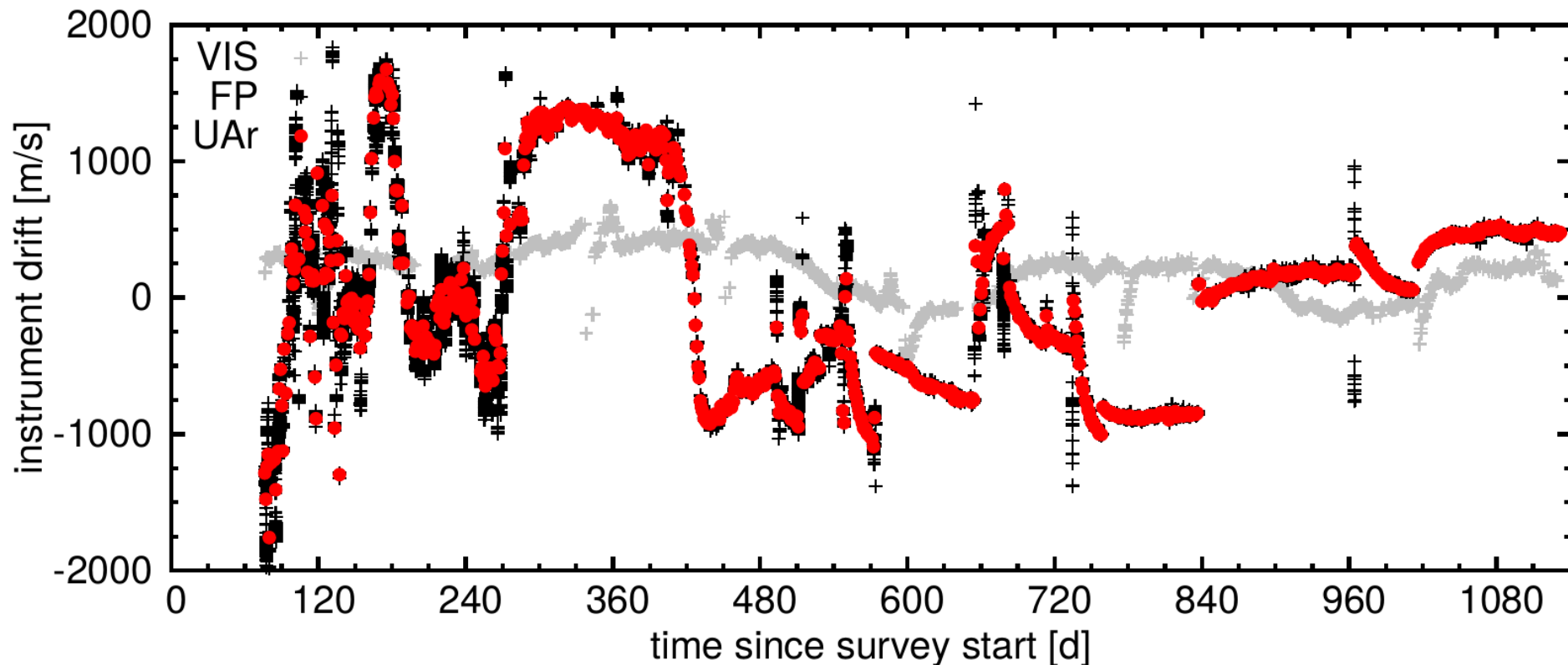


Instrumental drift NIR



Long term:

Excursions in NIR $\sim 4\times$ VIS



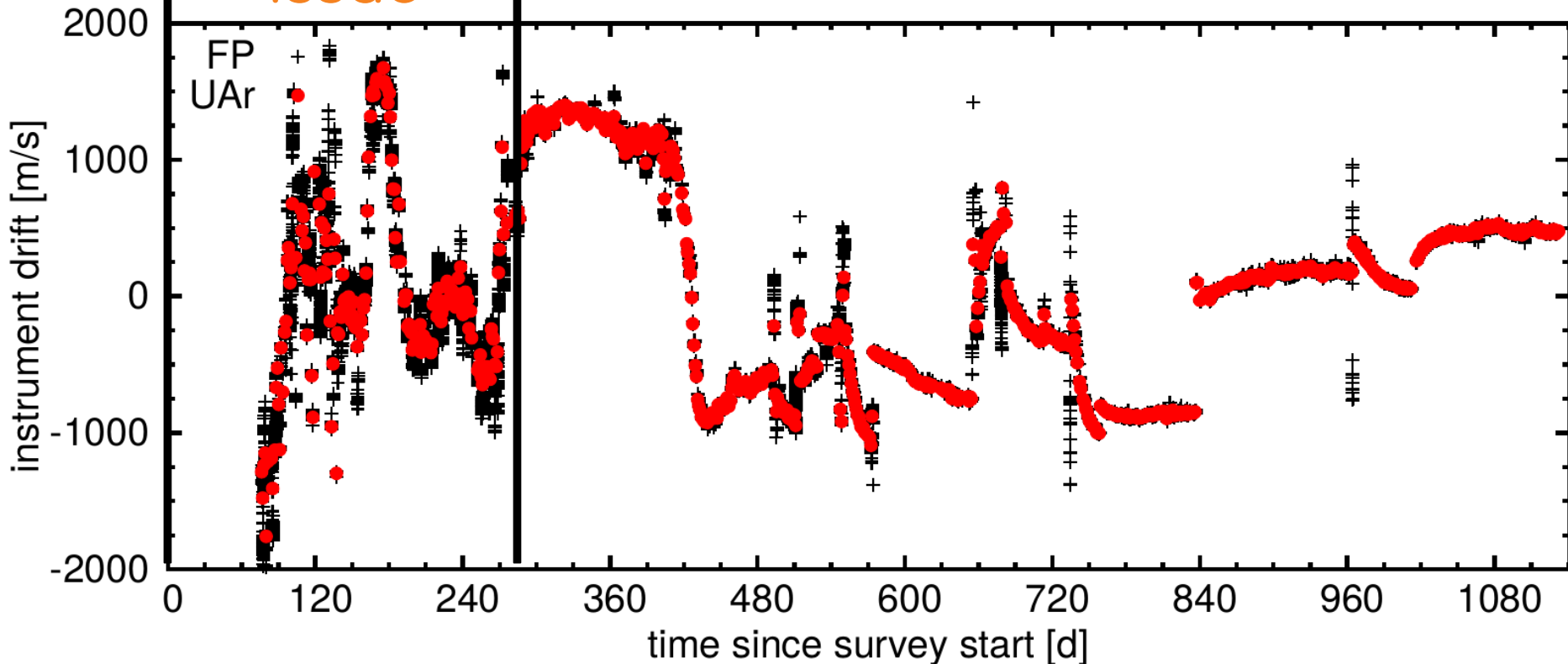
Instrumental drift NIR



Long term:



N2GPU
T-sensor
issue



Instrumental drift NIR

Long term:



N2GPU
T-sensor
issue

N2 lines
clogged

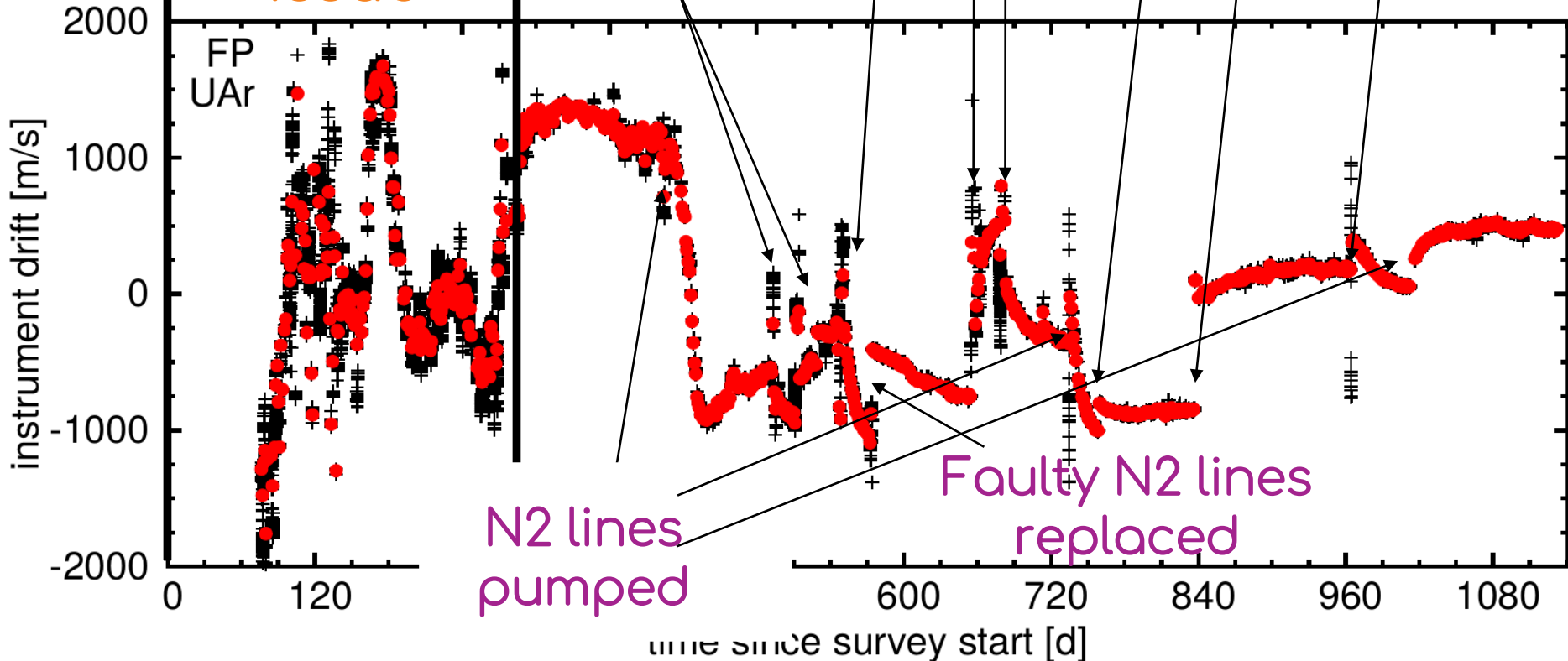
Temp data
frozen

Power failure

on/off
valve
tuning

on/off
valve
problems

Hole
drilling



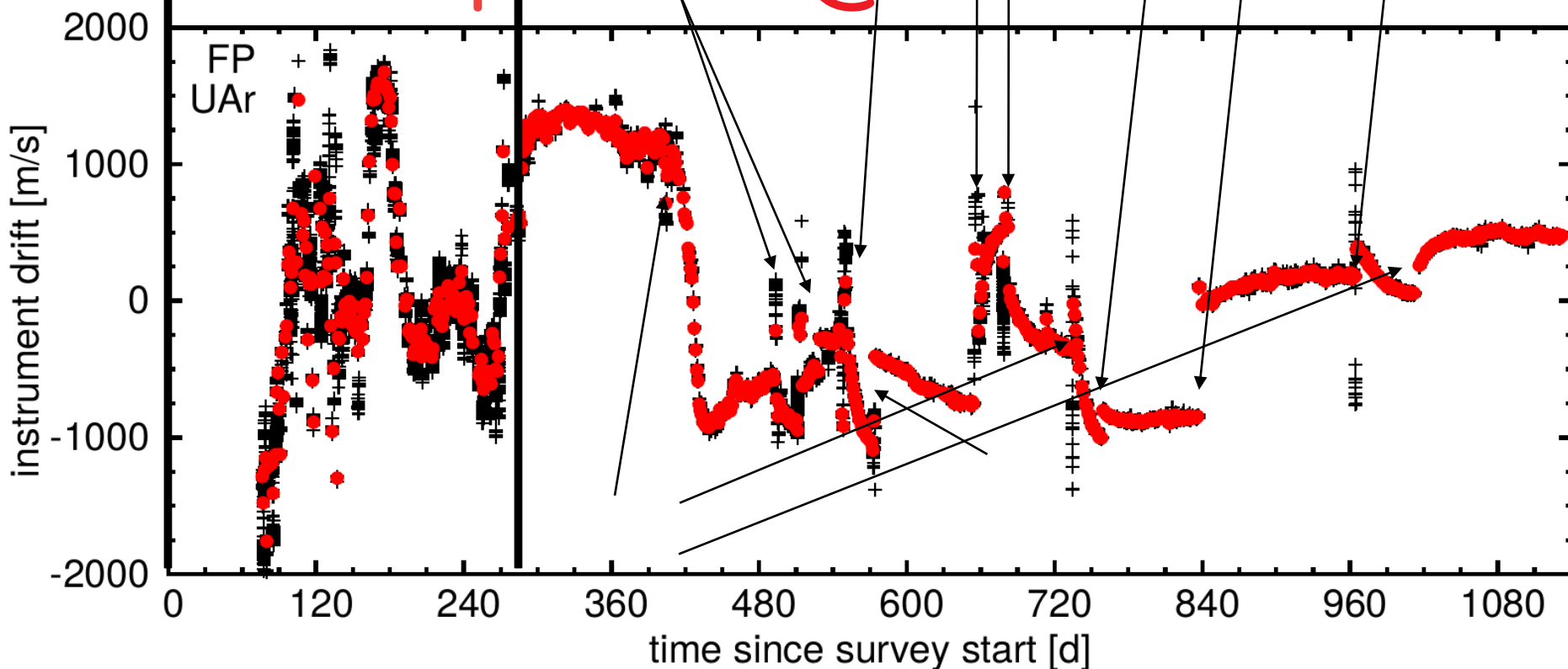
Instrumental drift NIR

Long term:



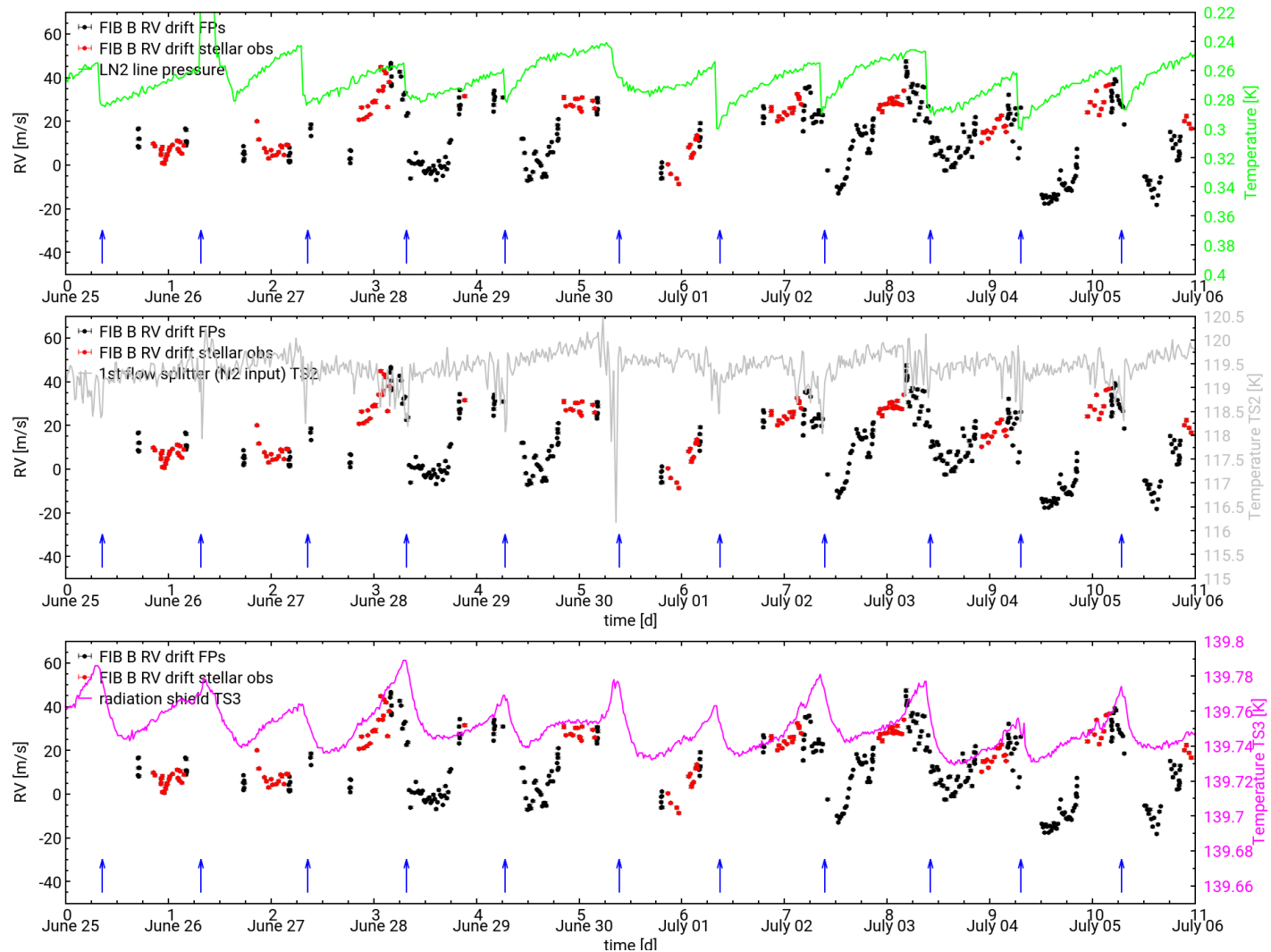
COOLING SYSTEM
We operate @ 140K!

Hole
drilling



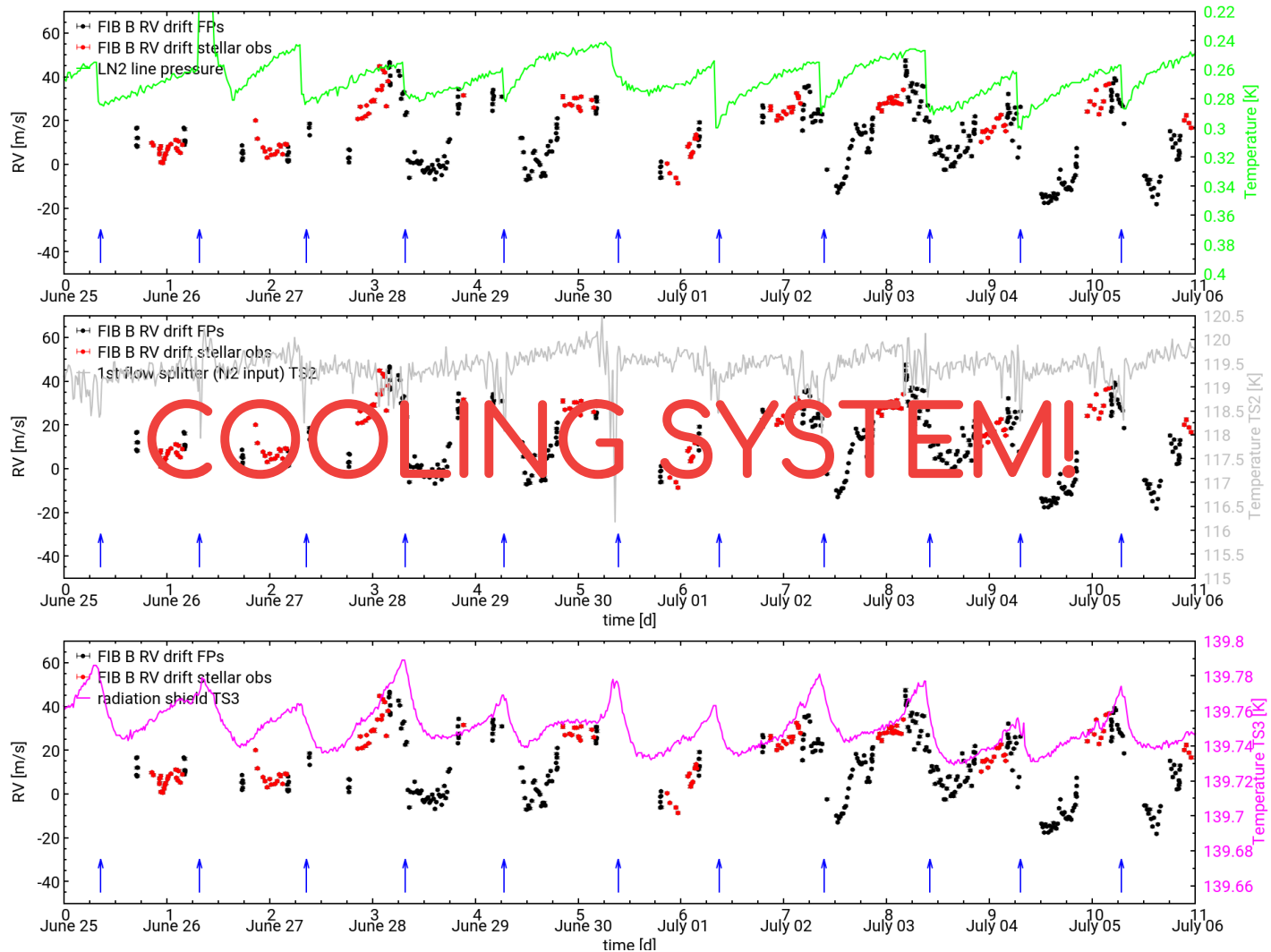
Instrumental drift NIR

Short term:

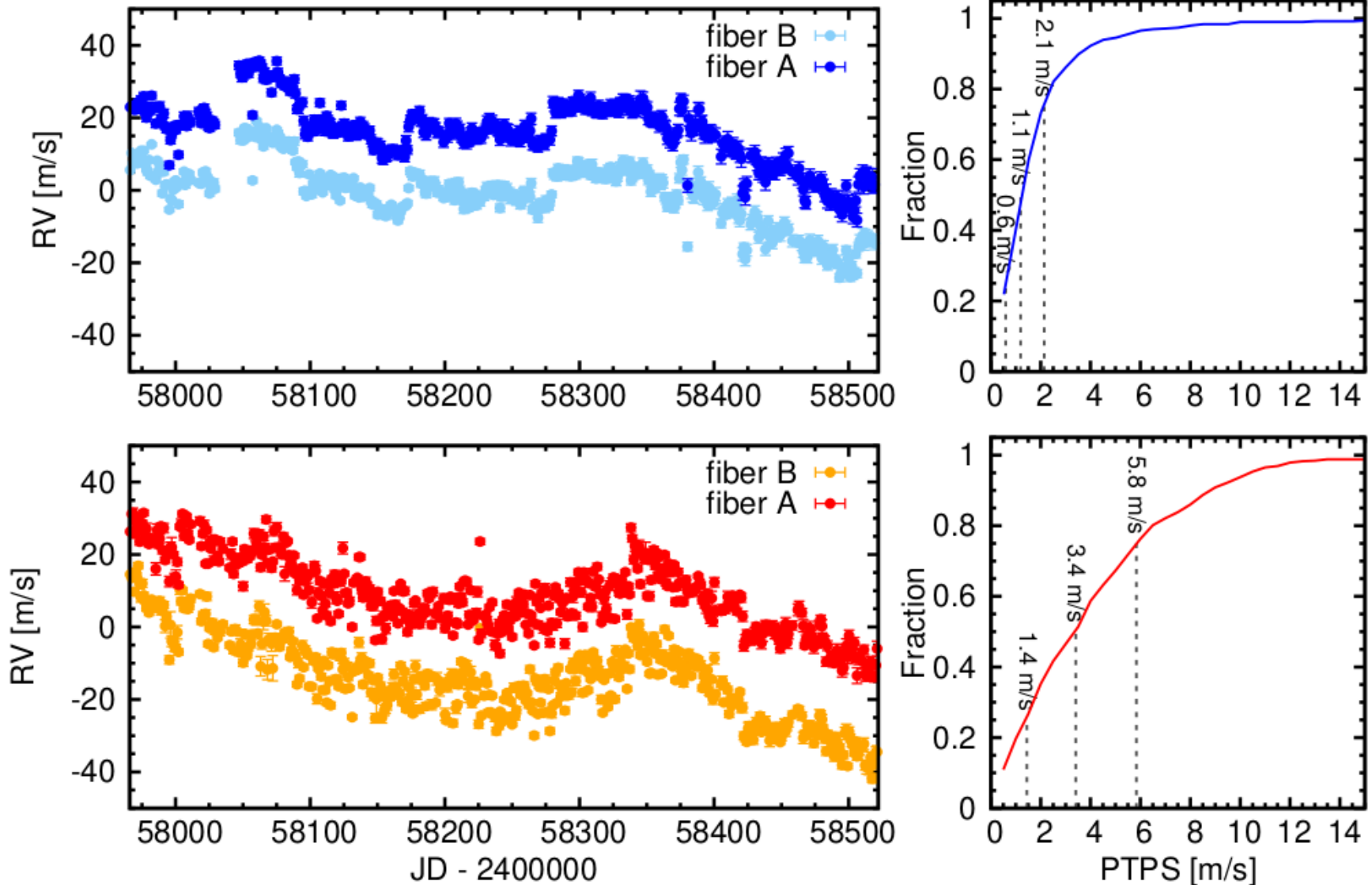


Instrumental drift NIR

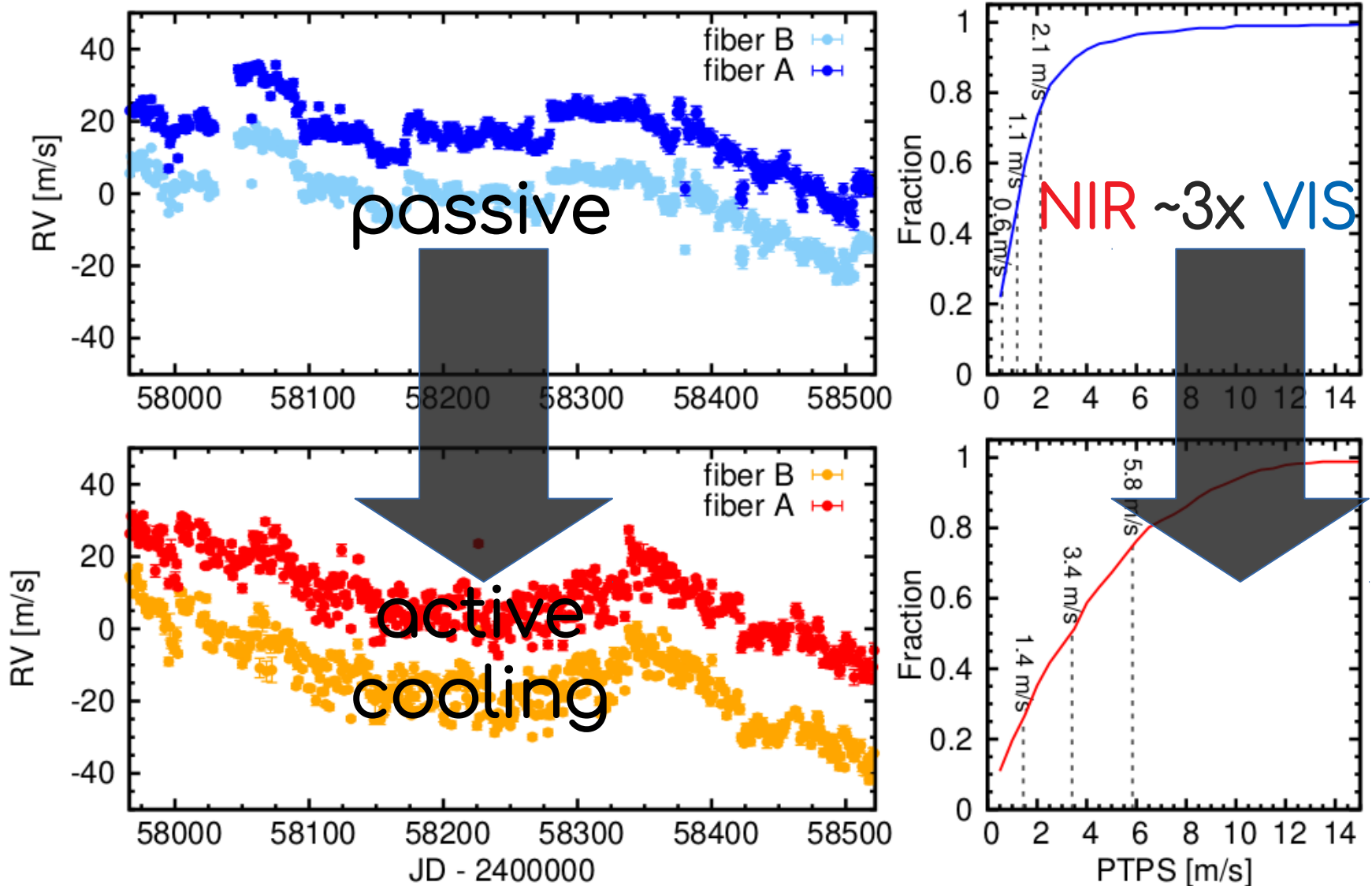
Short term:



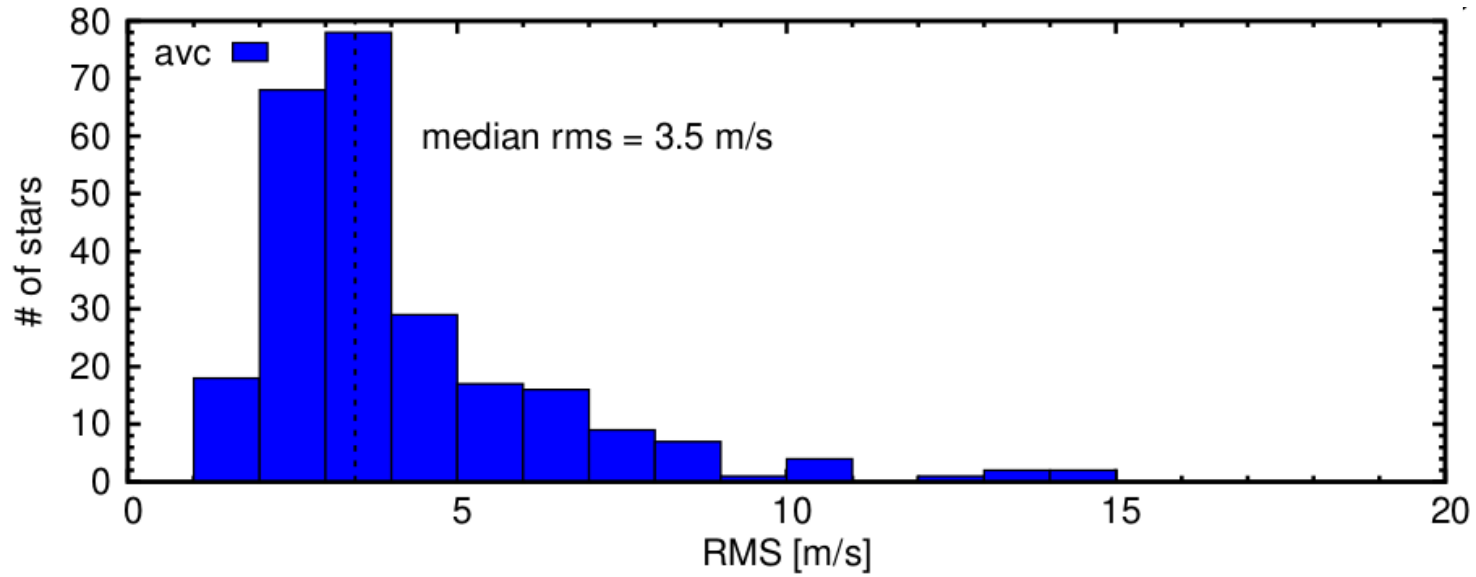
Internal precision



Internal precision



VIS on sky



NIR on sky

