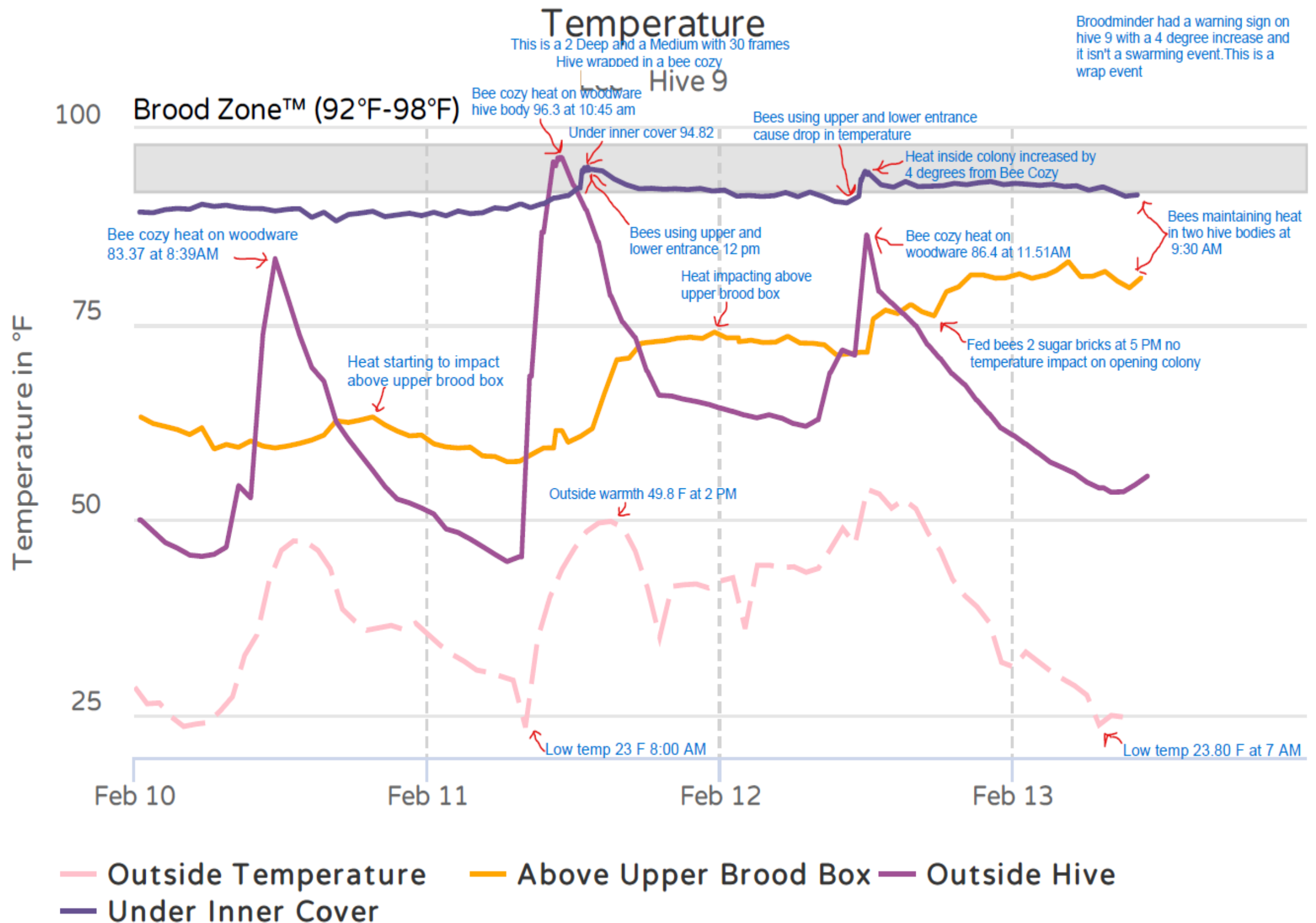


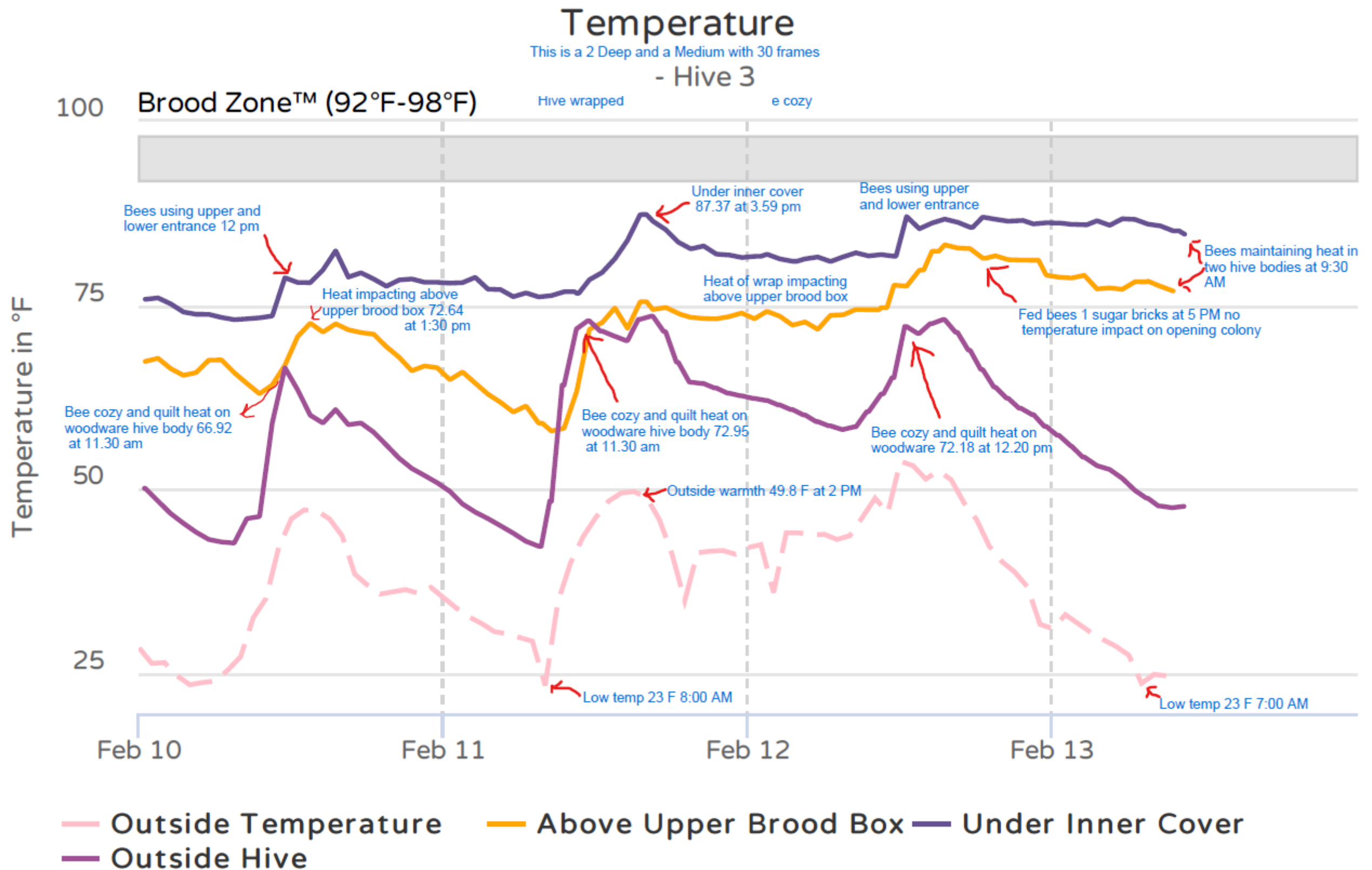
Annotated MyBroodminder Graphs

Melissa Sim-Hollister

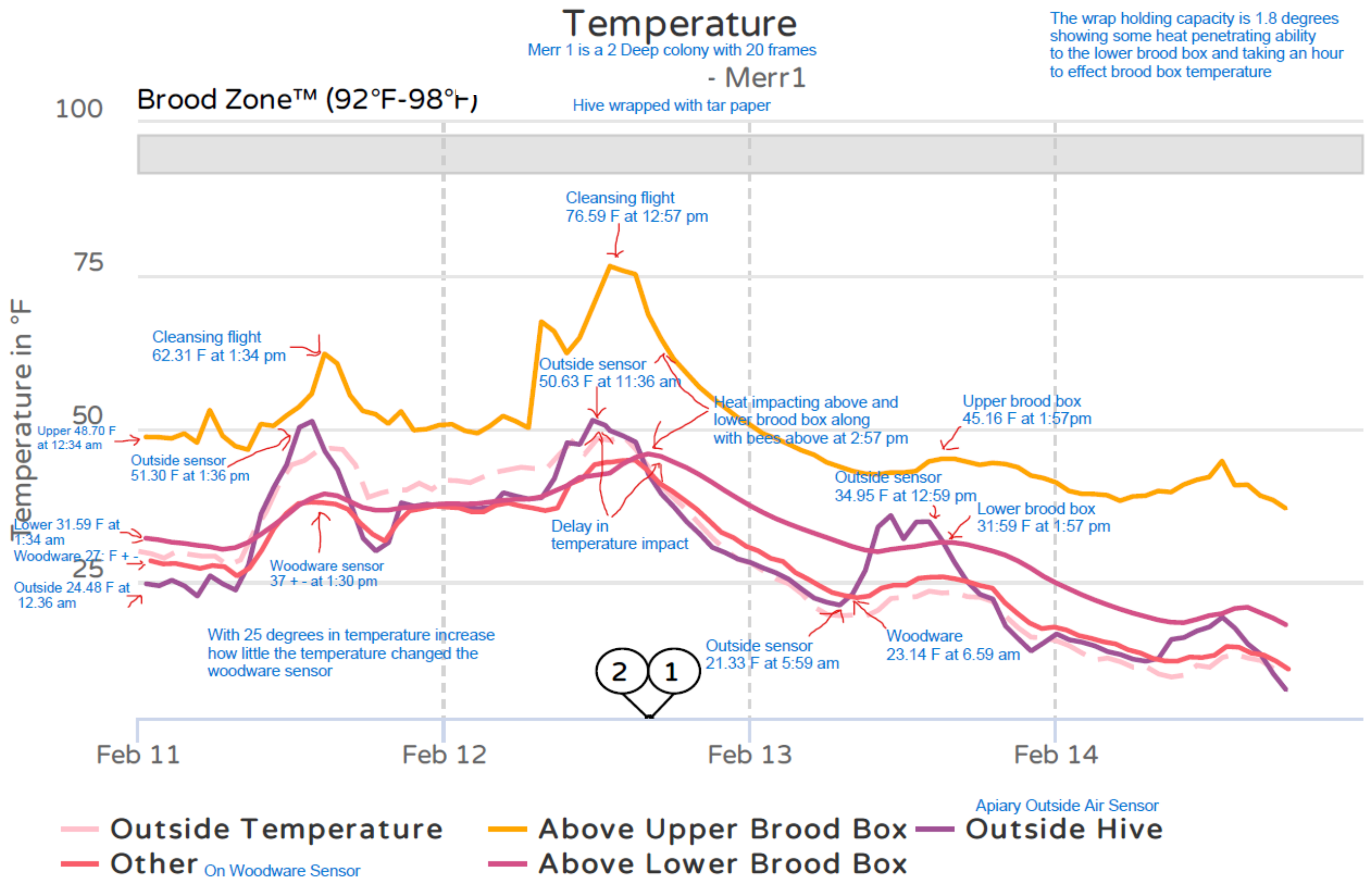
Hive 9 (Cozy) – My Broodminder 2/10-2/13



Hive 3 (Cozy + quilt) – My Broodminder 2/10-2/13



Merr1 (Tar Paper) – My Broodminder 2/11-2/14



Merr2 (Polystyrene) – My Broodminder 2/10-2/13

Temperature

Merr 2 is a 2 Deep colony with 20 frames

- Merr2

Hive wrapped with 1" polystyrene

The heat that is generated is by the bees.
As the outside temperatures doesn't penetrate the woodware. As morning outside temperature increase the polystyrene holds the cooler night temperatures on woodware showing lower than outside air. Eventually the warm outside air event, the bees warm inside the colony to allow the polystyrene R-value to hold the heat with low outside temperatures.

Brood Zone™ (92°F-98°F)

100

75

50

25

Temperature in °F

Feb 11

Feb 12

Feb 13

Feb 14

1

— Outside Temperature

— Above Lower Brood Box

— Above Upper Brood Box

— Outside Hive

On Woodware Sensor

Above brood box
62.65 F at 3:35 am

Outside temp
46.9 F

7:36am

woodware

Outside heat not able to
penetrate the woodware sensor

1:00 pm

Outside temp
48.9 F

Cleansing flight upper and
lower 83.62 at 10:58 am

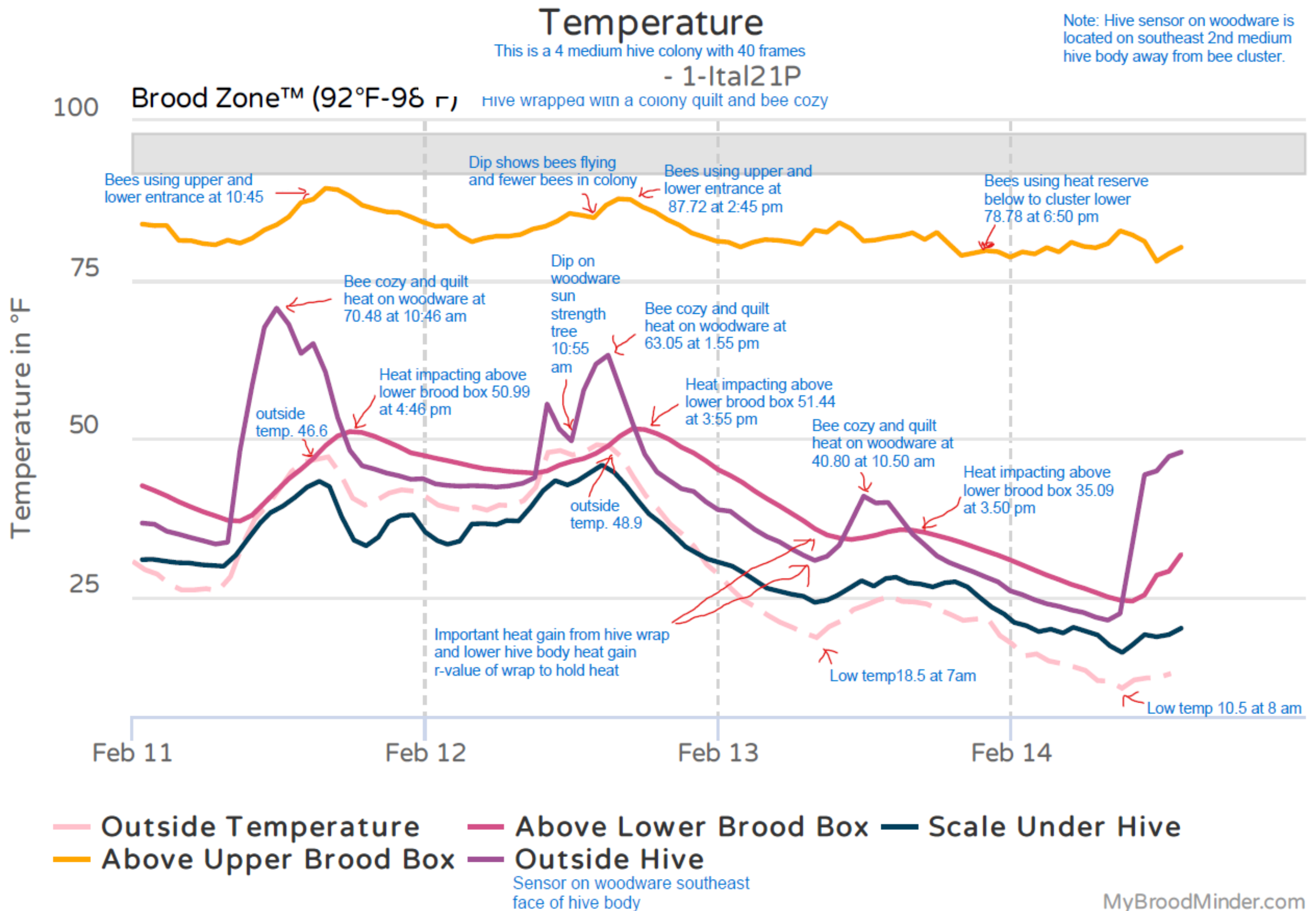
Above brood box temp 60.03 F
at 11:58 pm

Above Lower box 31.28 F
at 11:58 pm

Heat being transfer into
woodware sensor 22.05 F

Outside temp
12.4 F

Ital1 (Cozy + Quilt) – My Broominder 2/11-2/14



Sask1 (quilt)– My Broodminder 2/11-2/14

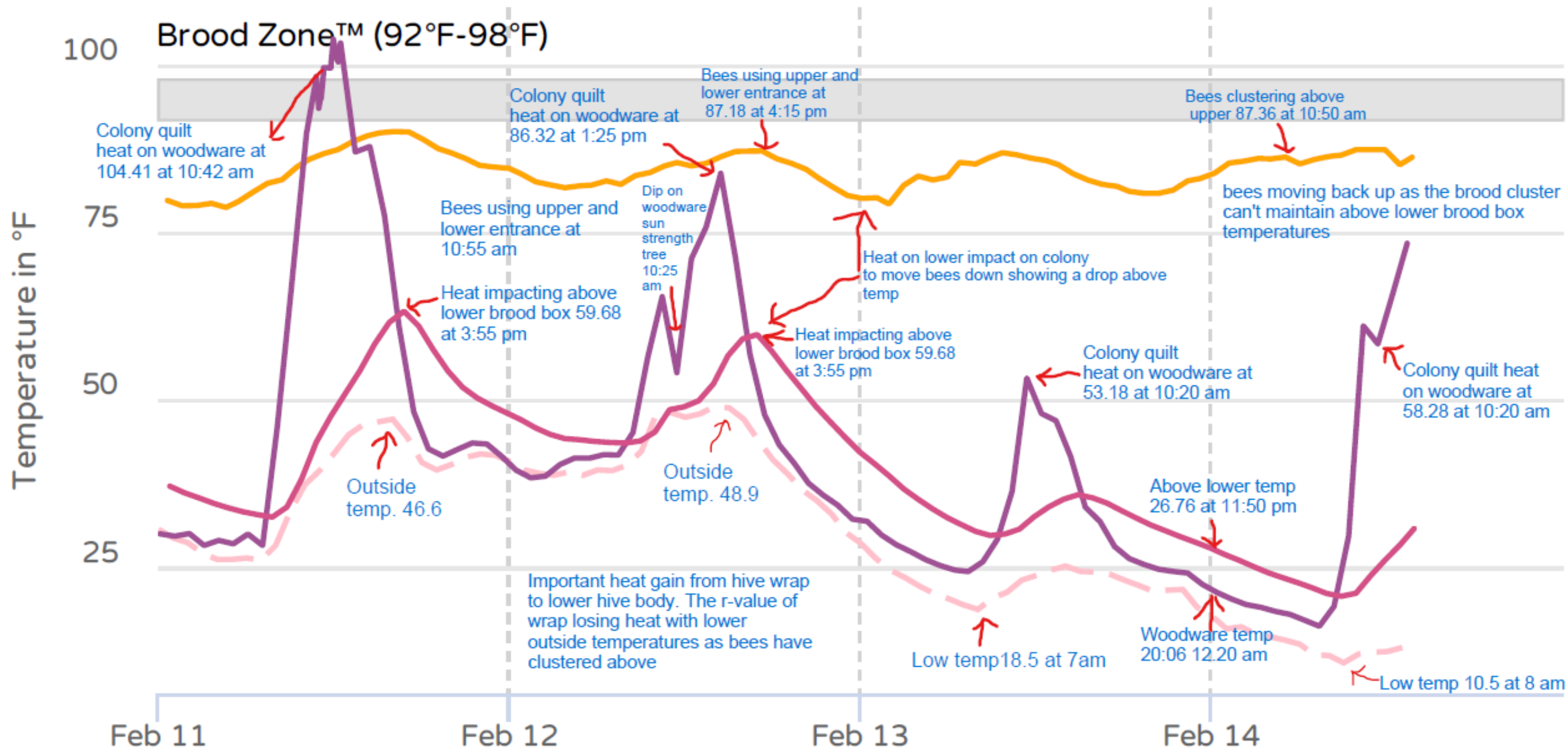
Temperature

This is a 4 medium hive colony with 40 frames

1-Sask21P

Hive wrapped with a colony quilt

Note: Hive sensor on woodware is located on southeast 2nd medium hive body away from bee cluster.



— Outside Temperature
— Above Lower Brood Box

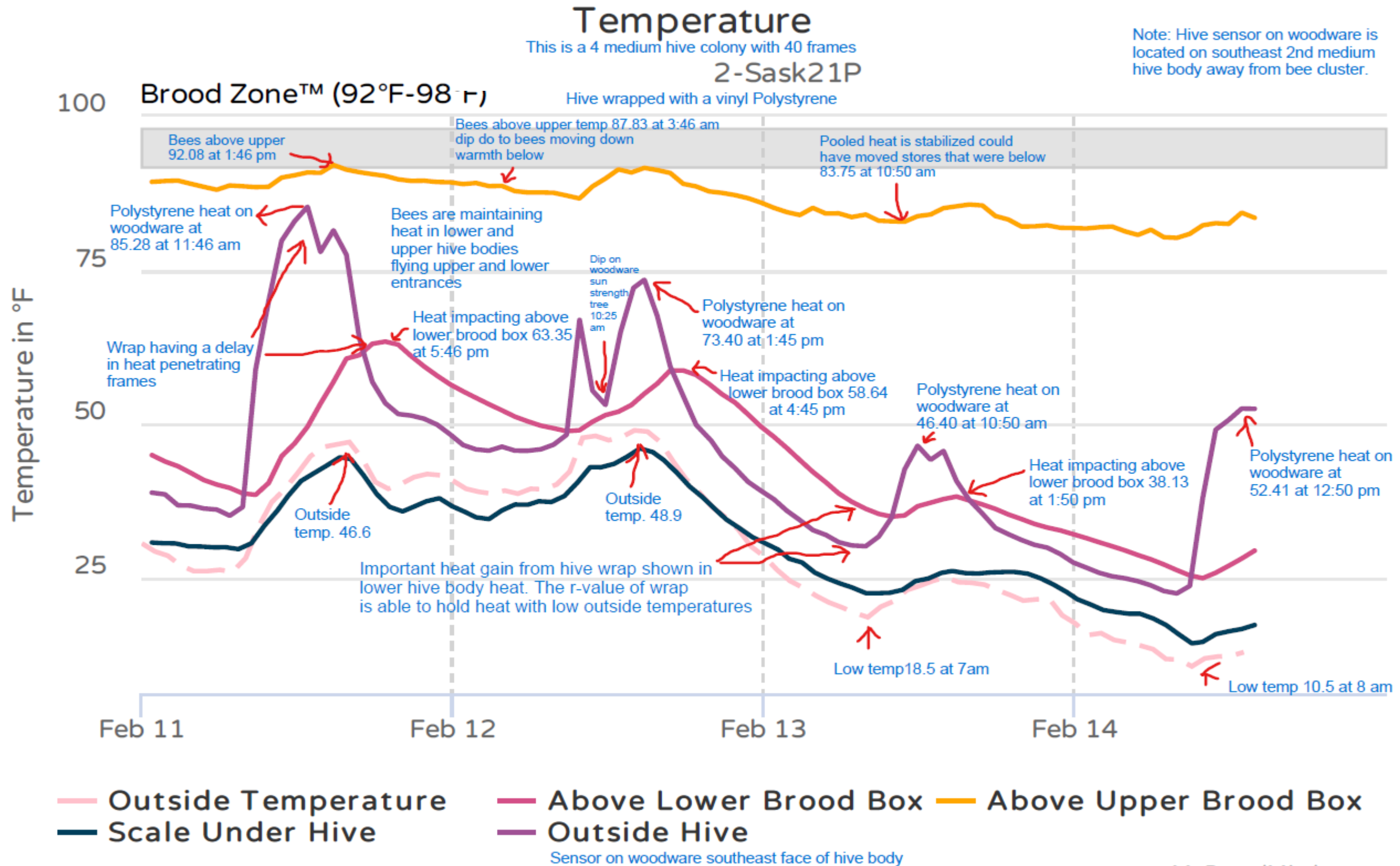
— Above Upper Brood Box

— Outside Hive

Sensor on woodware southeast face of hive body

Sask2 (polystyrene/marine vinyl) – My Broodminder

2/11-2/14



Sask1,Sask2,Ital1 Apiary Temp Sensor – My Broodminder 2/11-2/14

