



Fuzzy verification on Common Areas

-

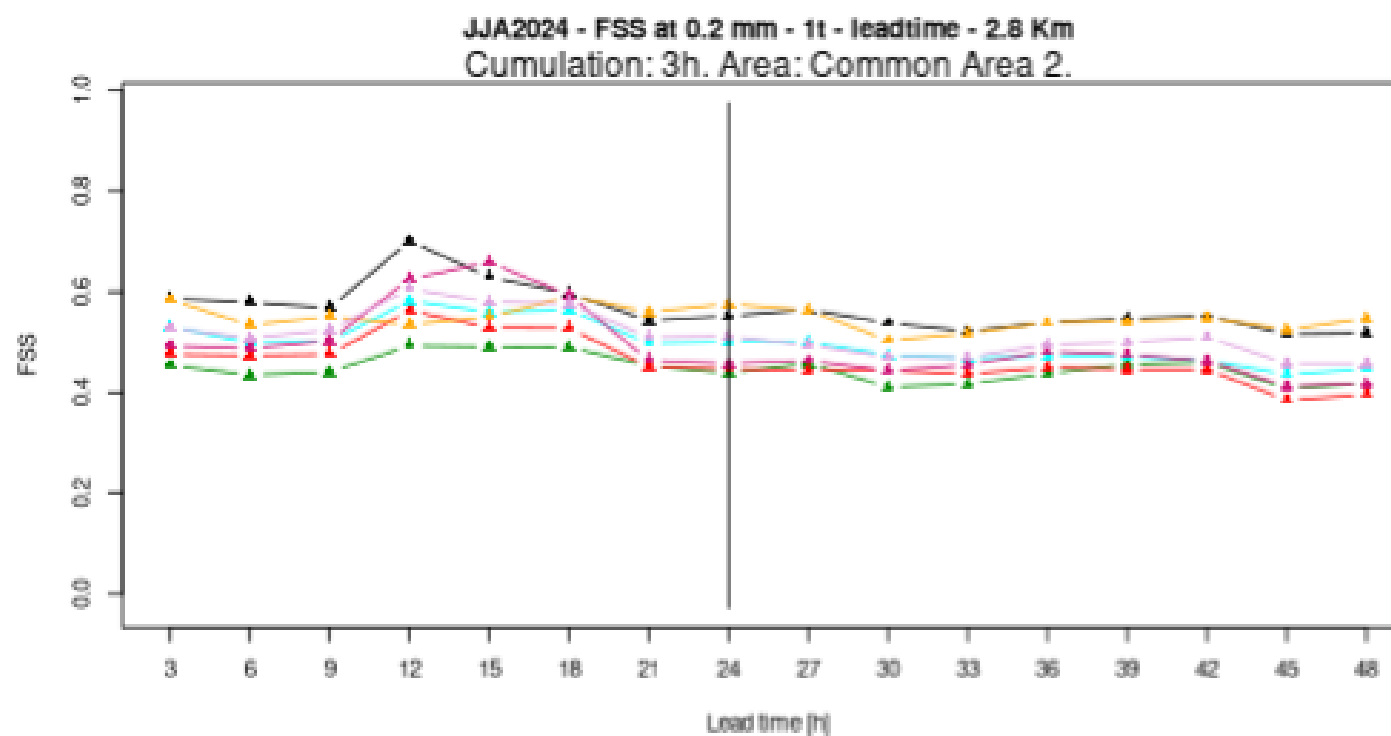
New plots

Naima Vela



January the 21st 2025 – WG5 online meeting

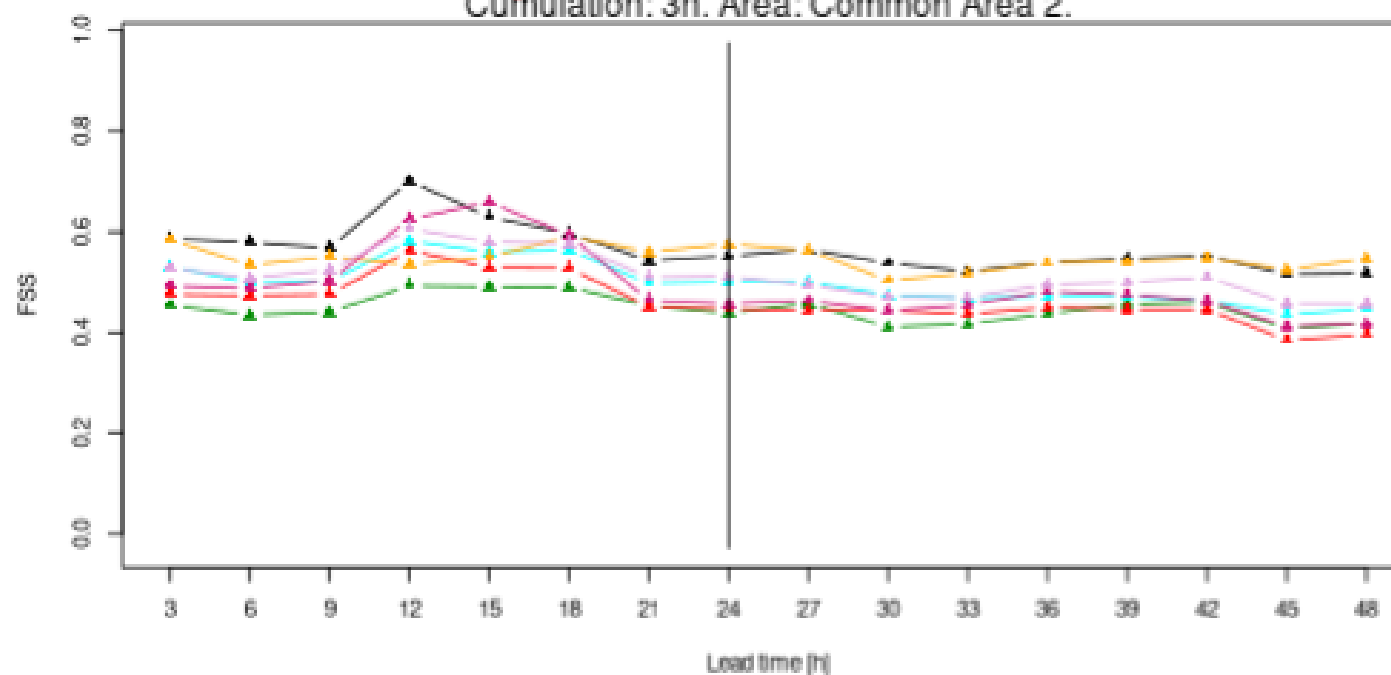
Fuzzy verification over common areas: new plots



Fuzzy verification over common areas: new plots

SEASON

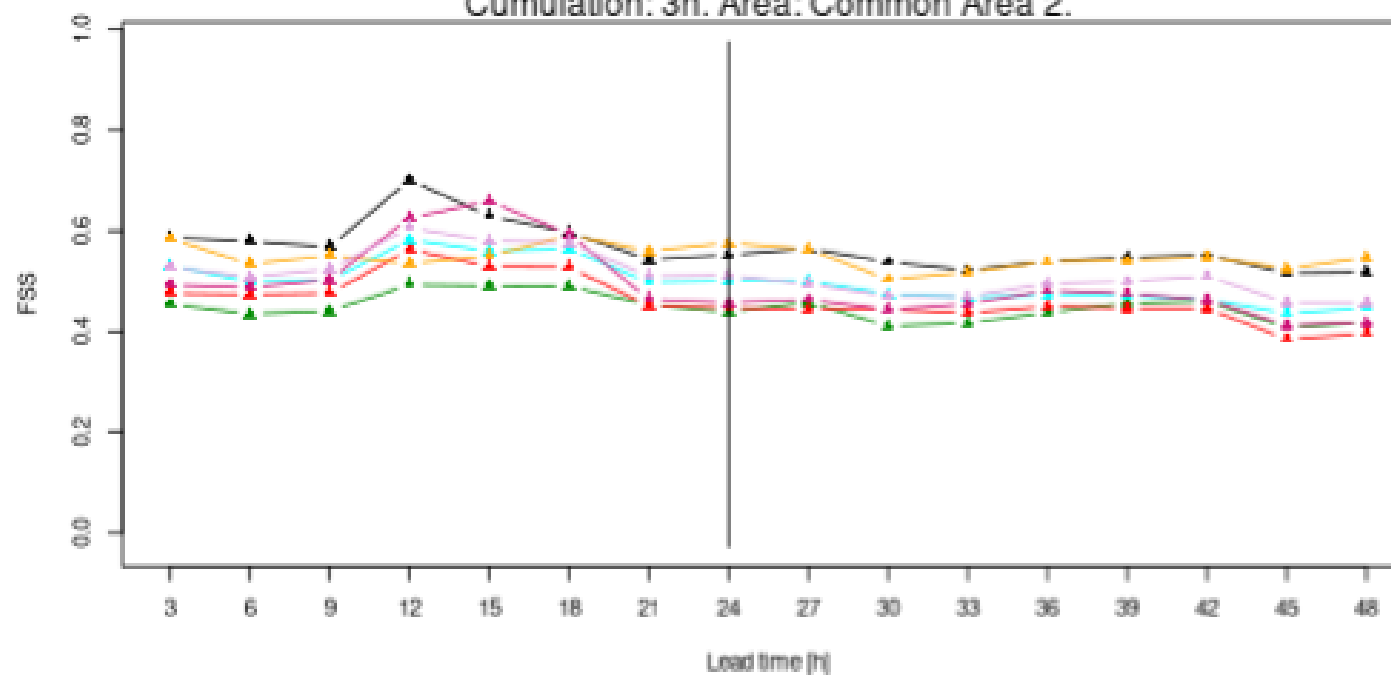
JJA2024 FSS at 0.2 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 2.



Fuzzy verification over common areas: new plots

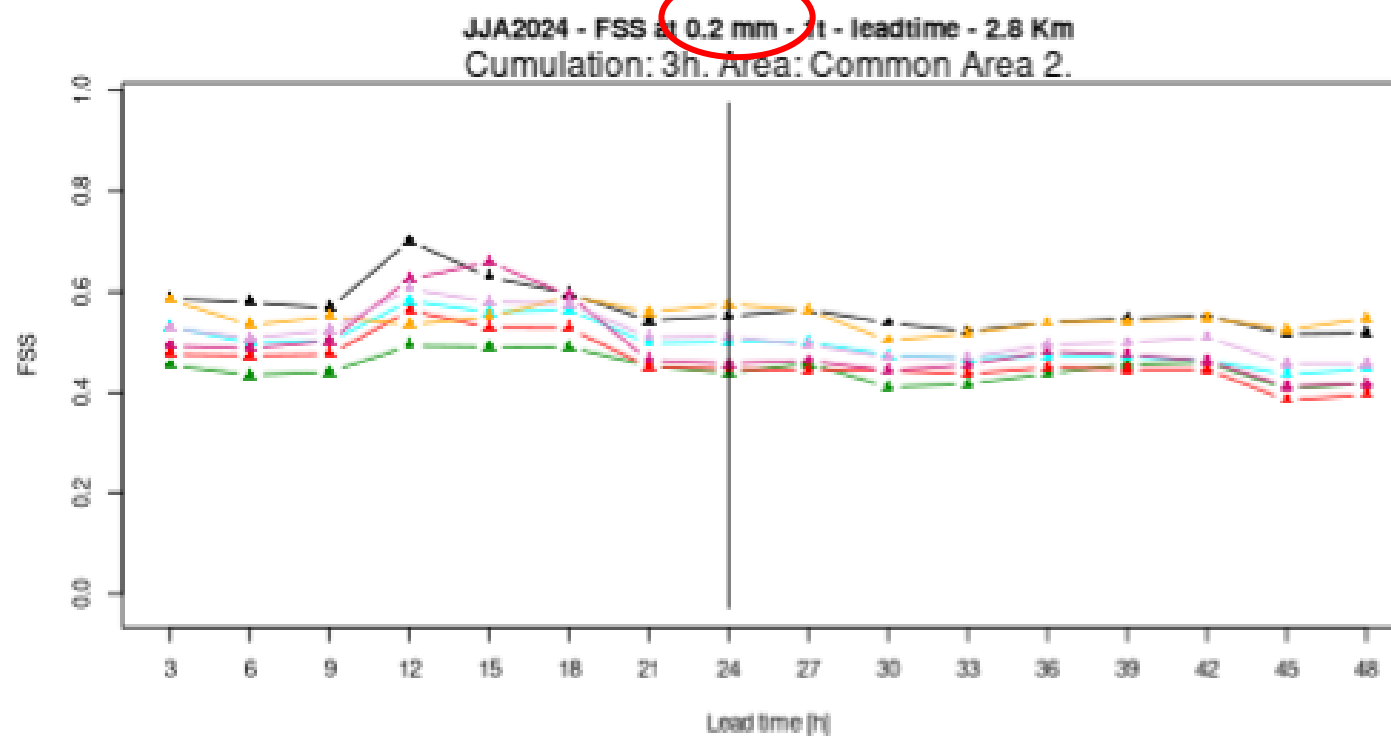
PRODUCT

JJA2024 - FSS at 0.2 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 2.

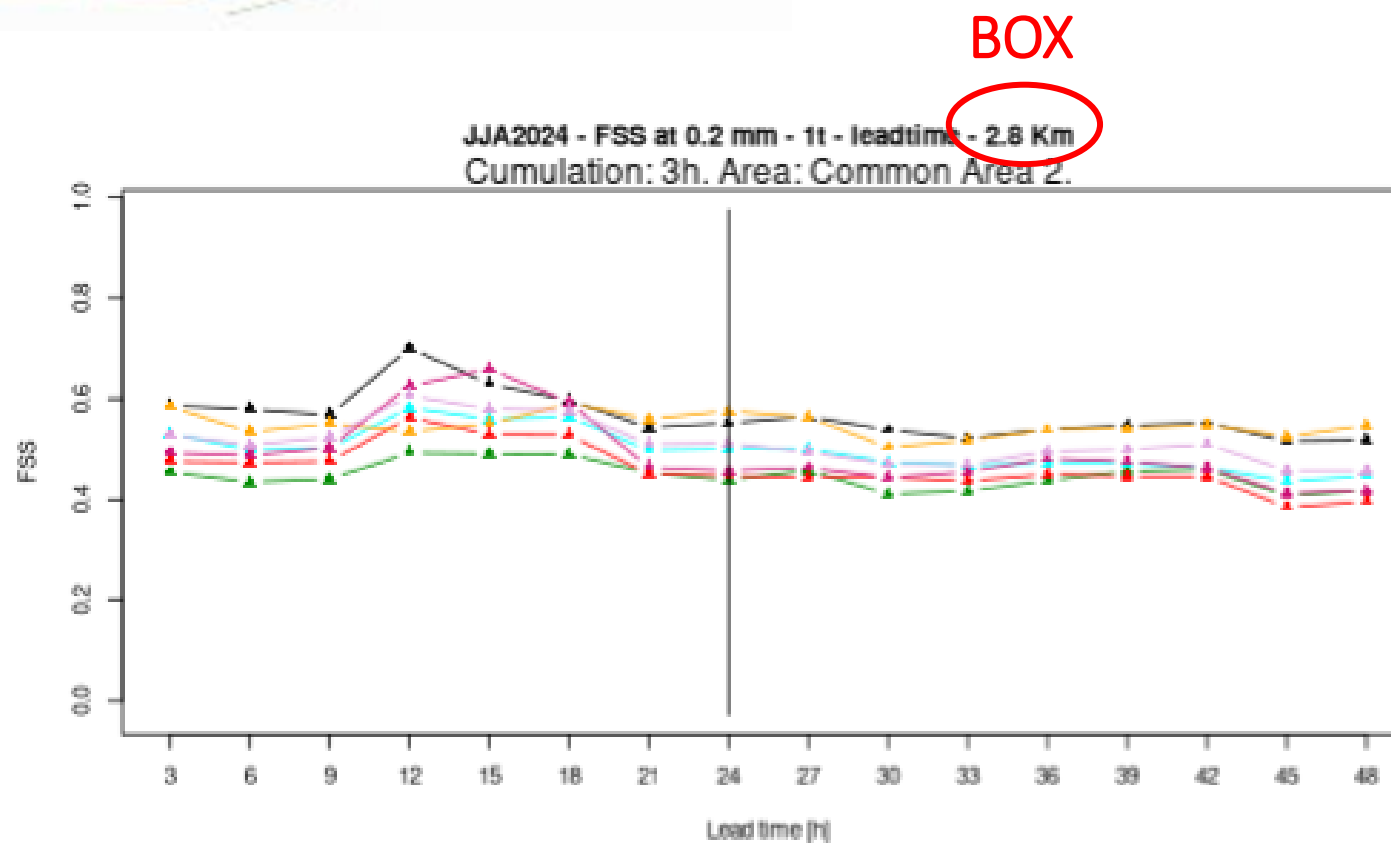


Fuzzy verification over common areas: new plots

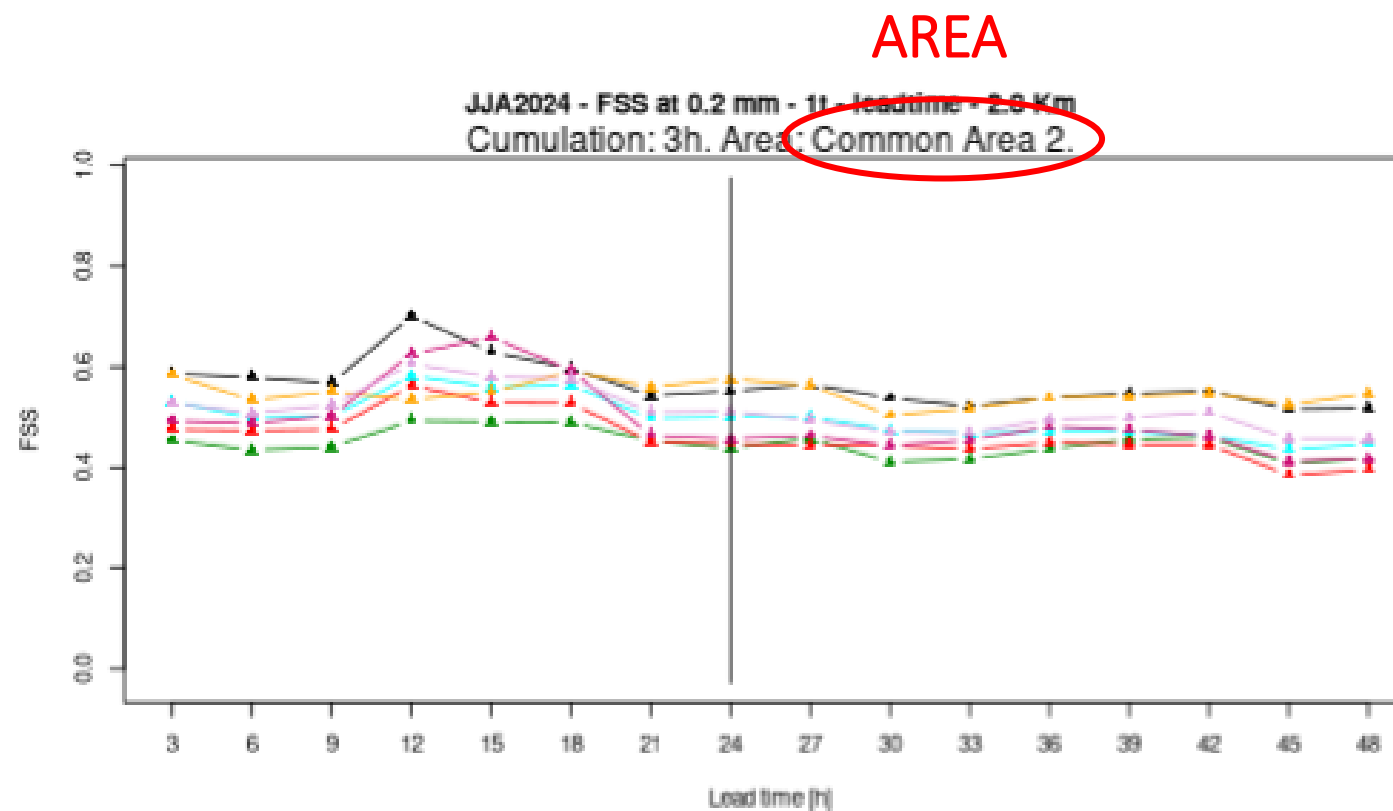
THRESHOLD



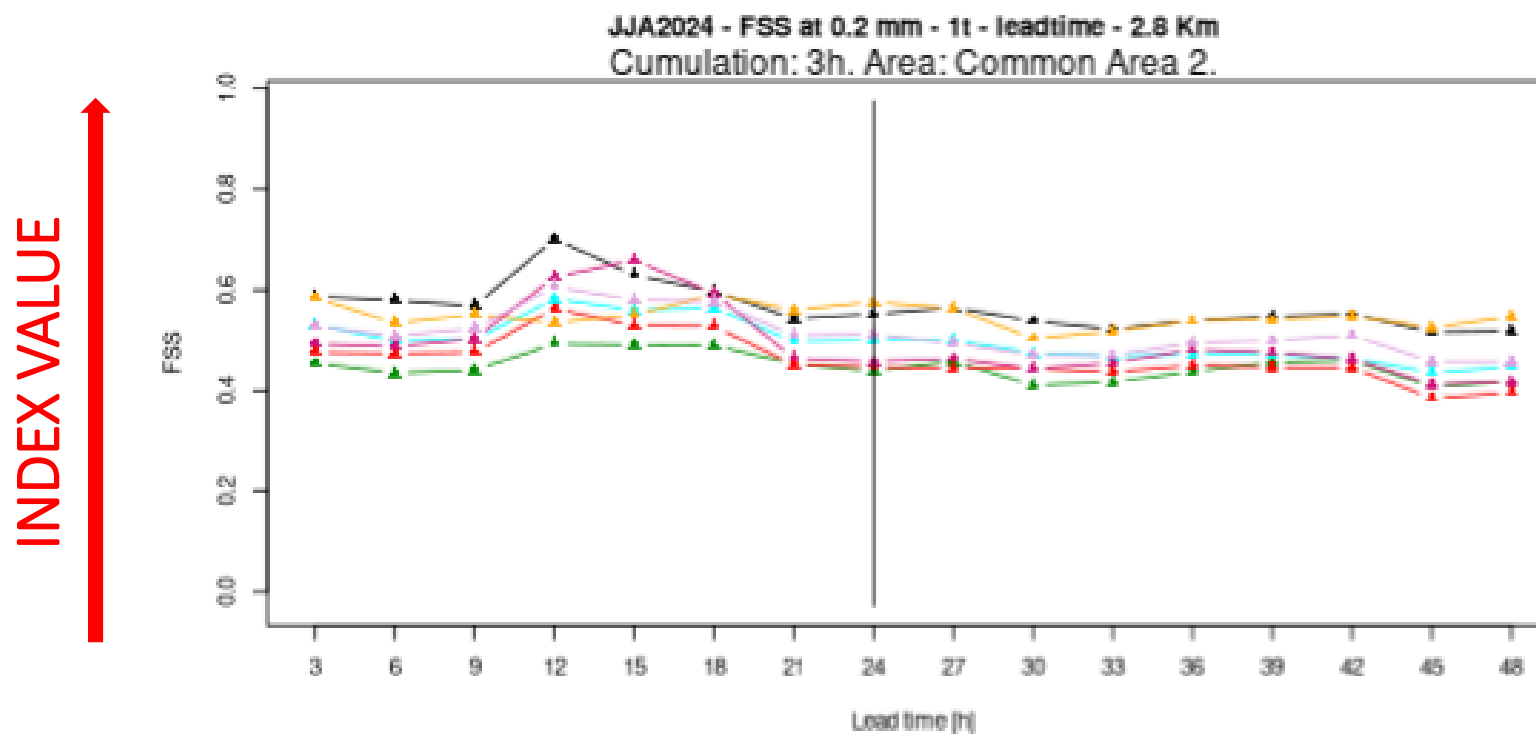
Fuzzy verification over common areas: new plots



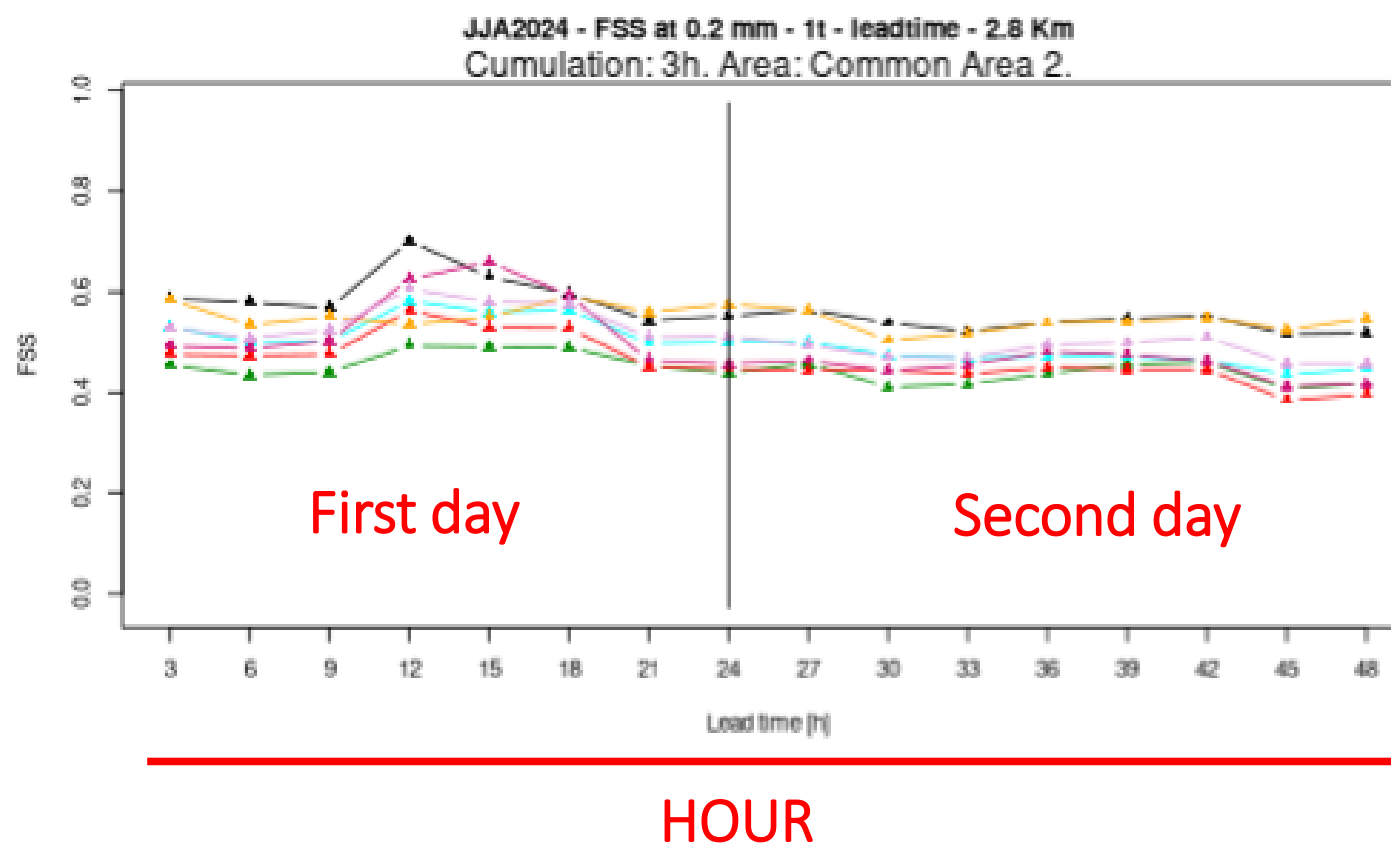
Fuzzy verification over common areas: new plots



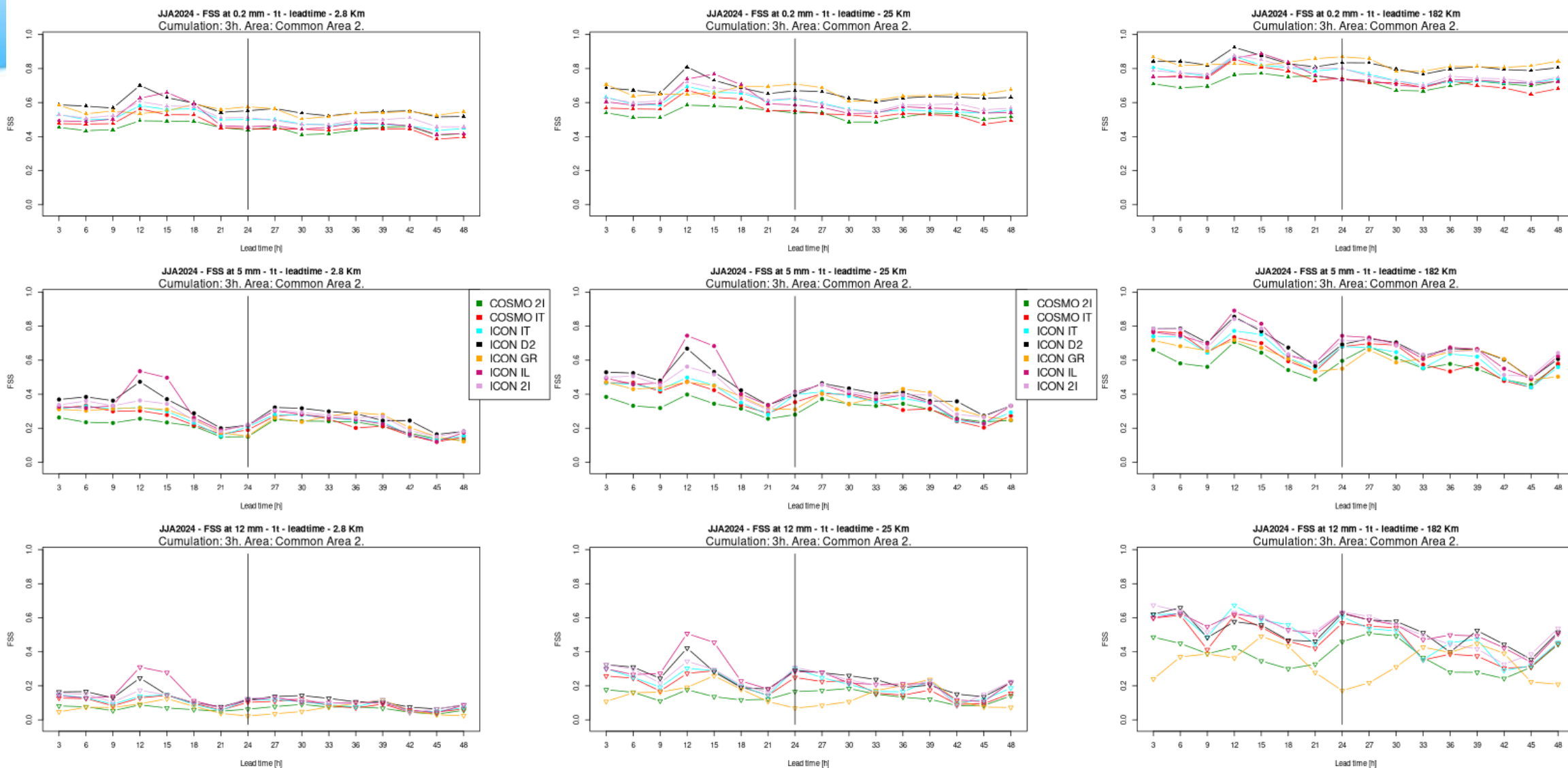
Fuzzy verification over common areas: new plots



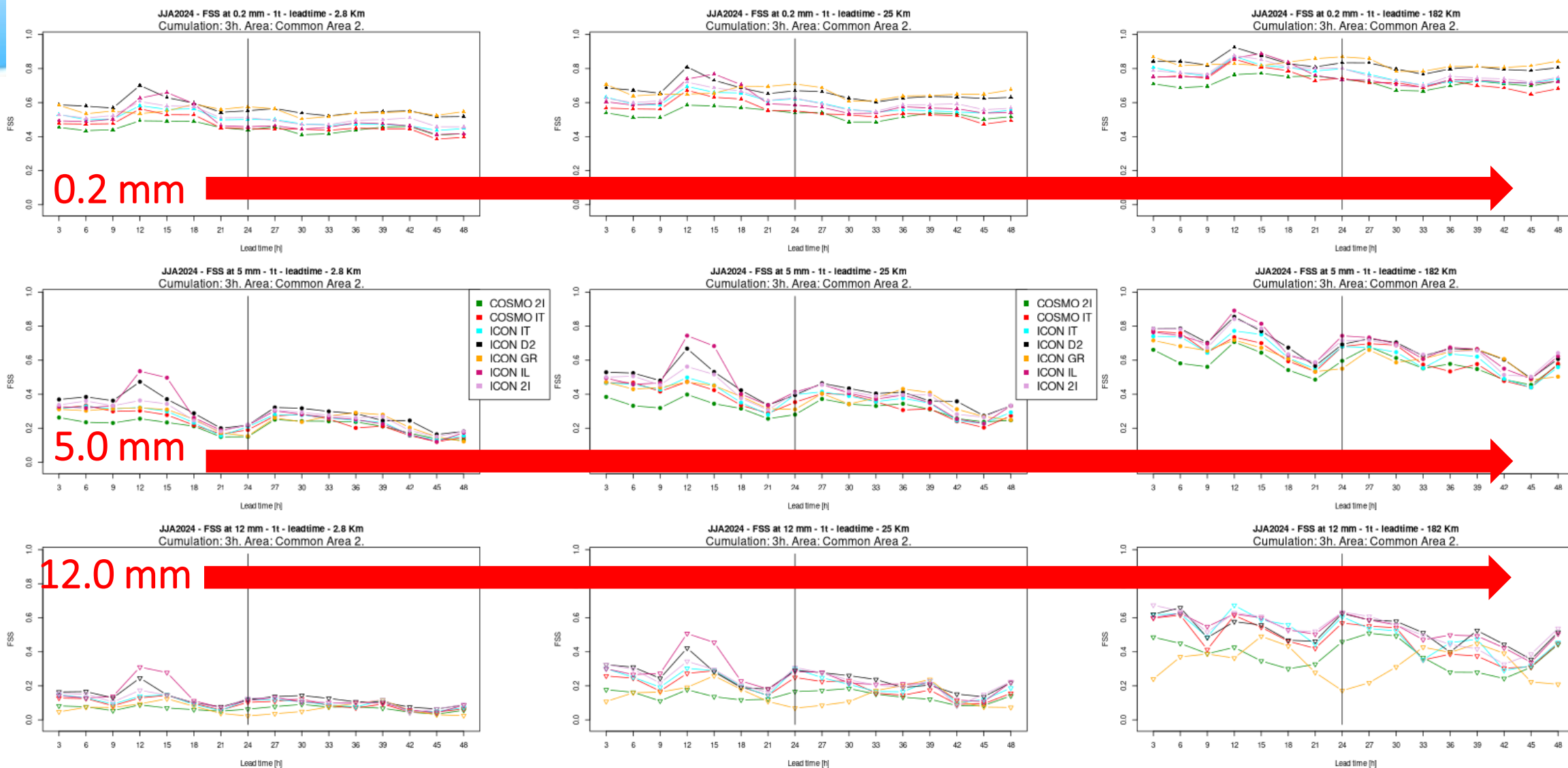
Fuzzy verification over common areas: new plots



Fuzzy verification over common areas: new plots



Fuzzy verification over common areas: new plots

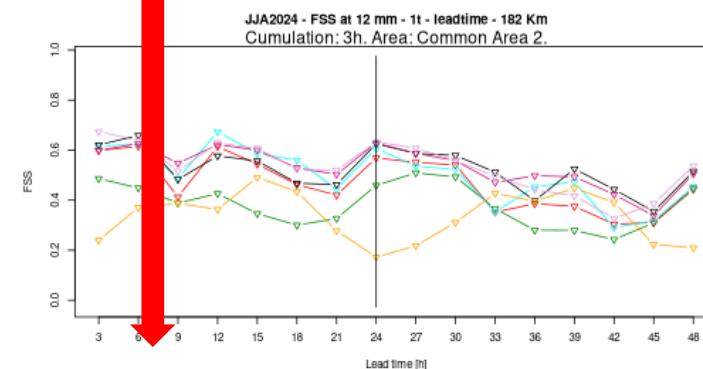
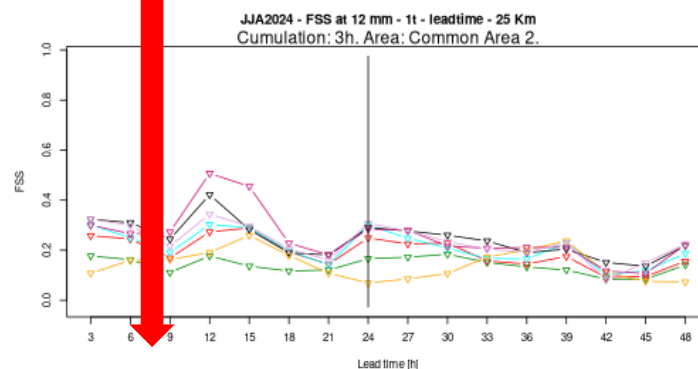
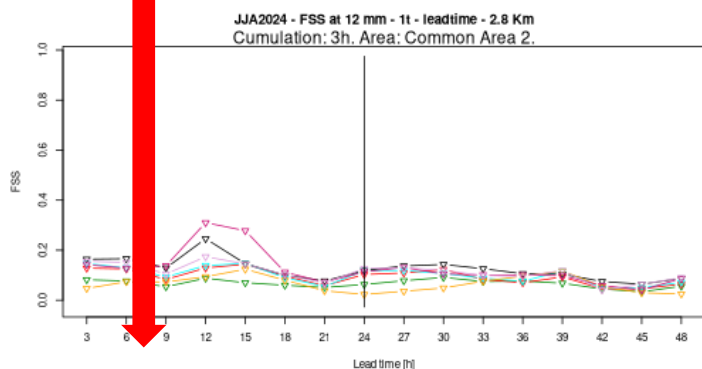
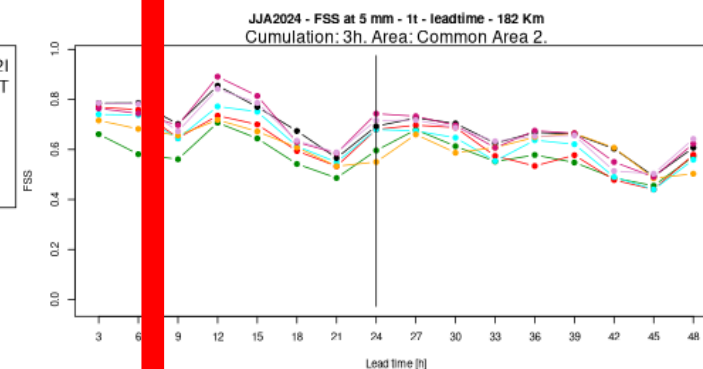
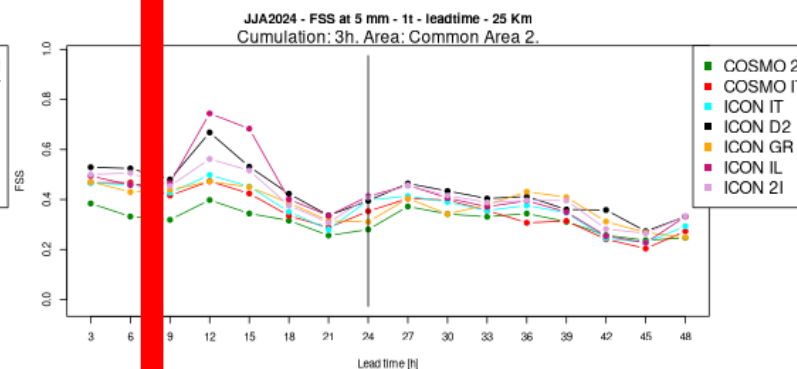
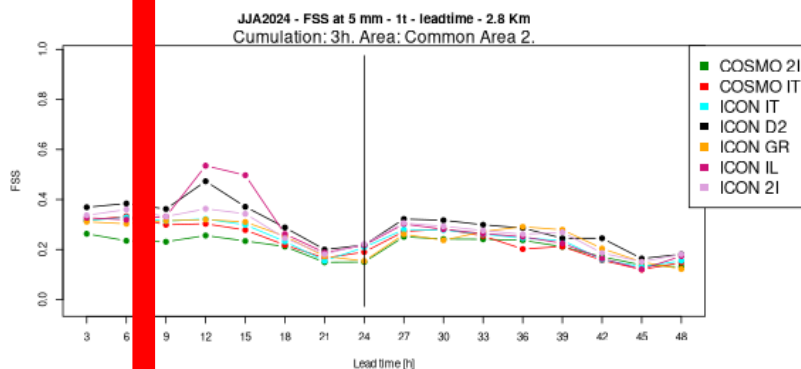
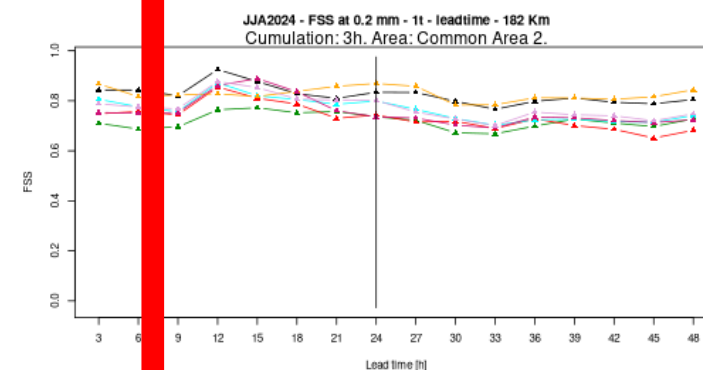
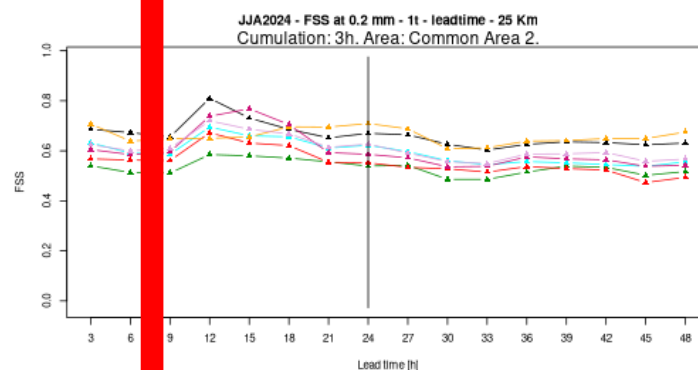
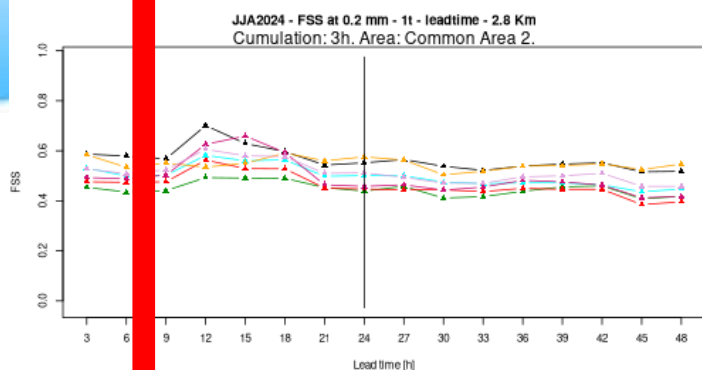


Fuzzy verification over common areas: new plots

2.8 Km

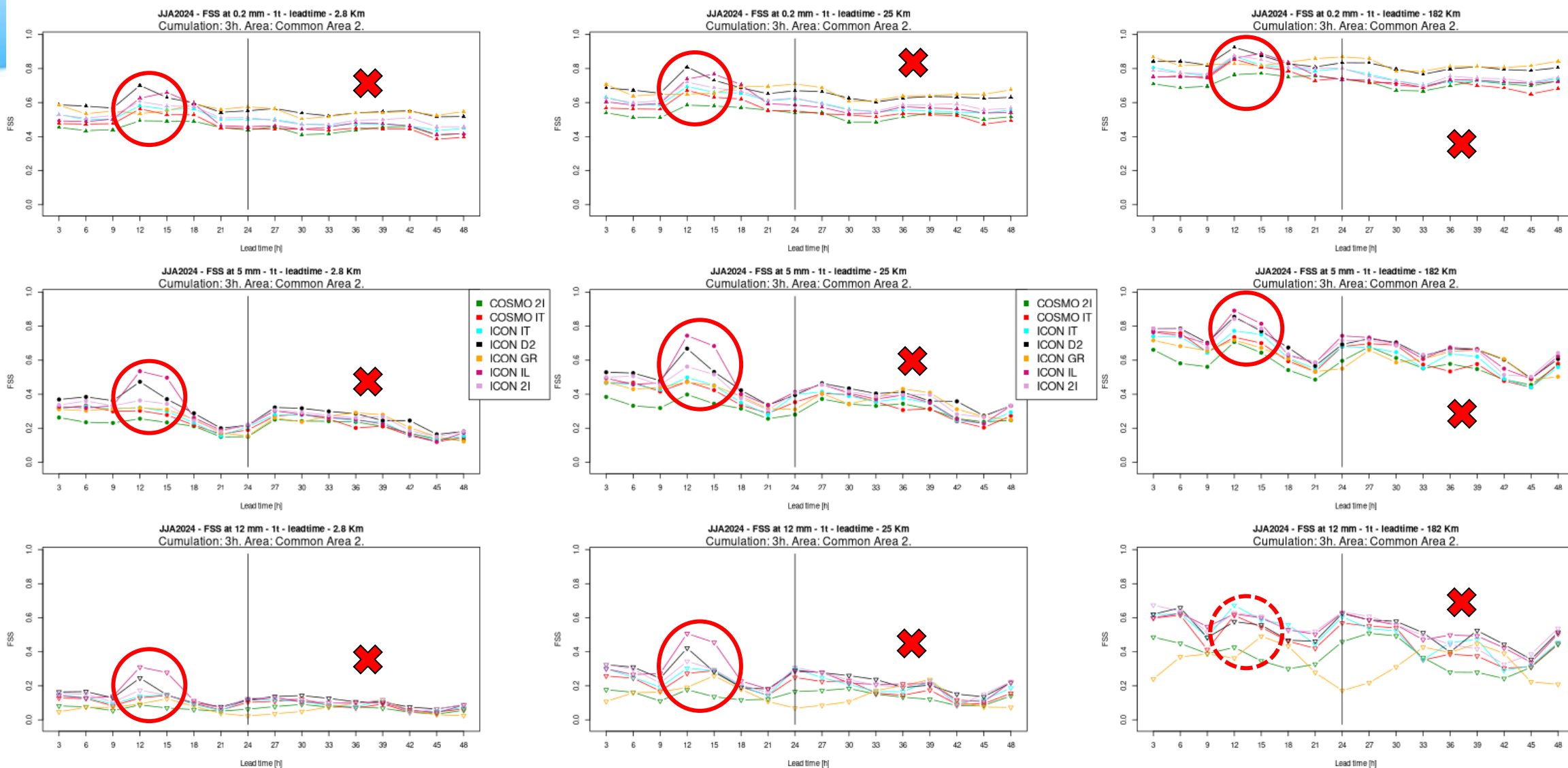
25 Km

182 Km



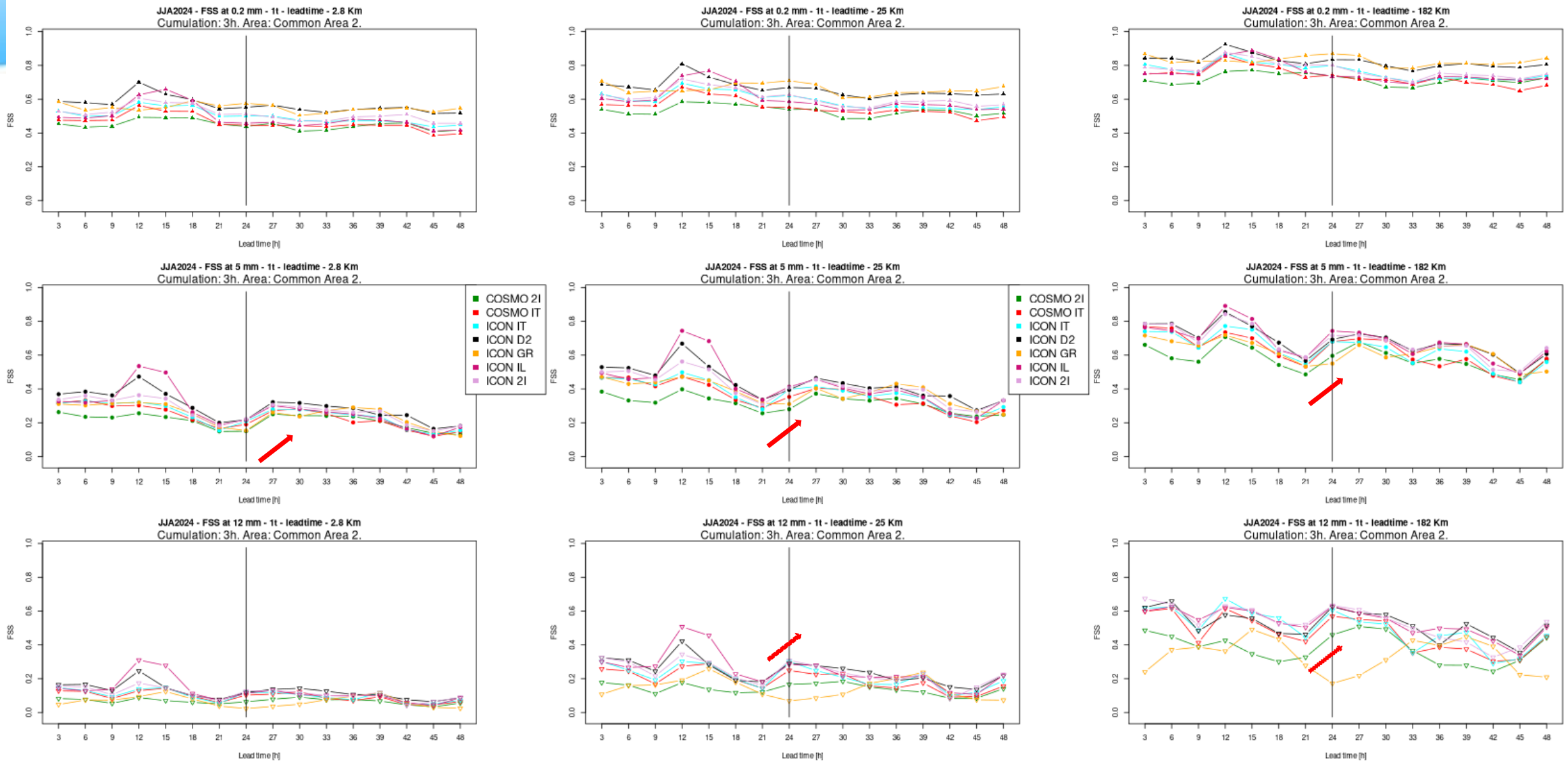
FSS – Common Area 2

Better FSS values in the central part of day 1, not present in day 2



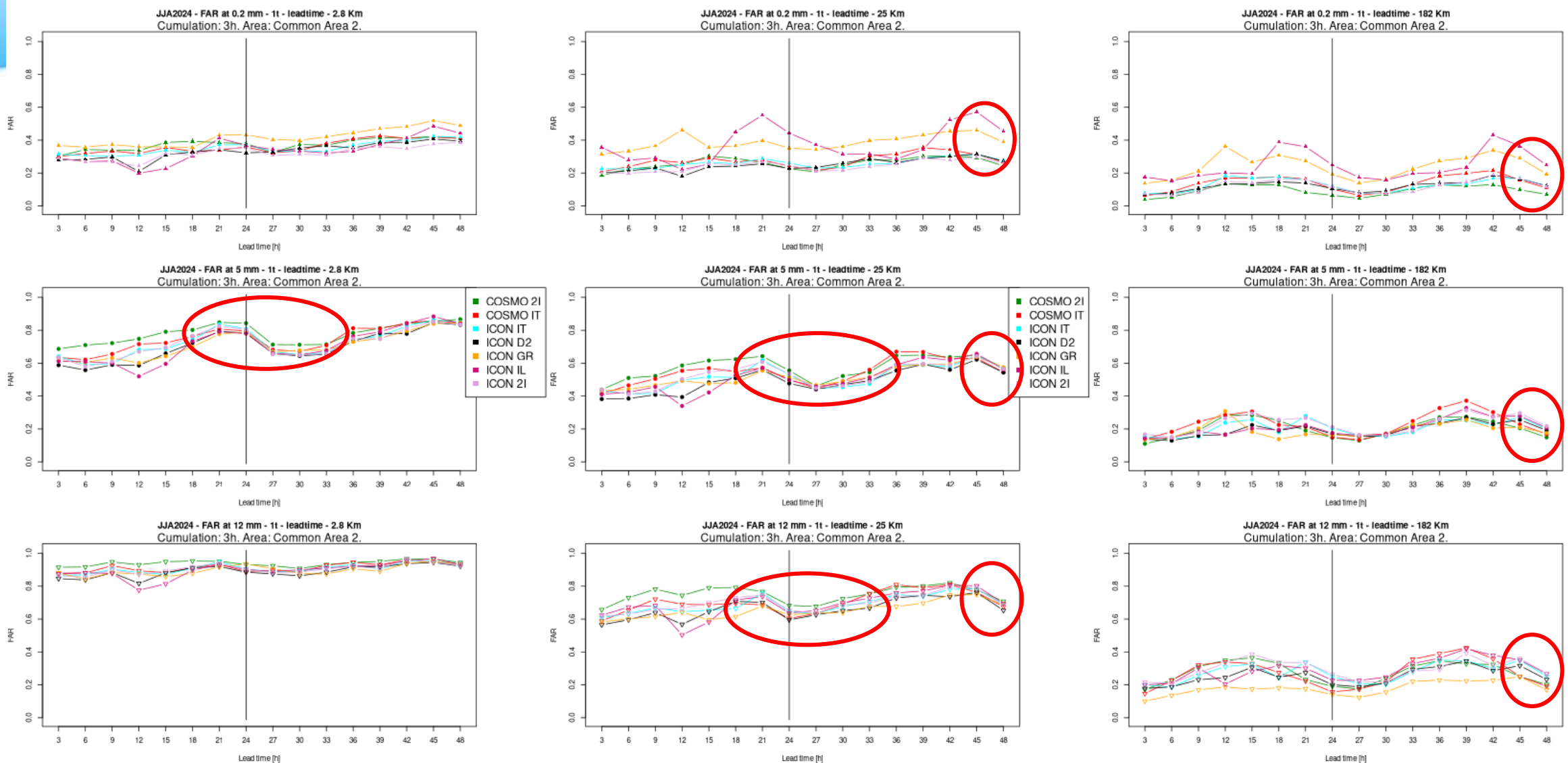
FSS (JJA2024) – Common Area 2

Increase from late evening to early morning for 5 mm/3h threshold (and partially 12 mm/3h)



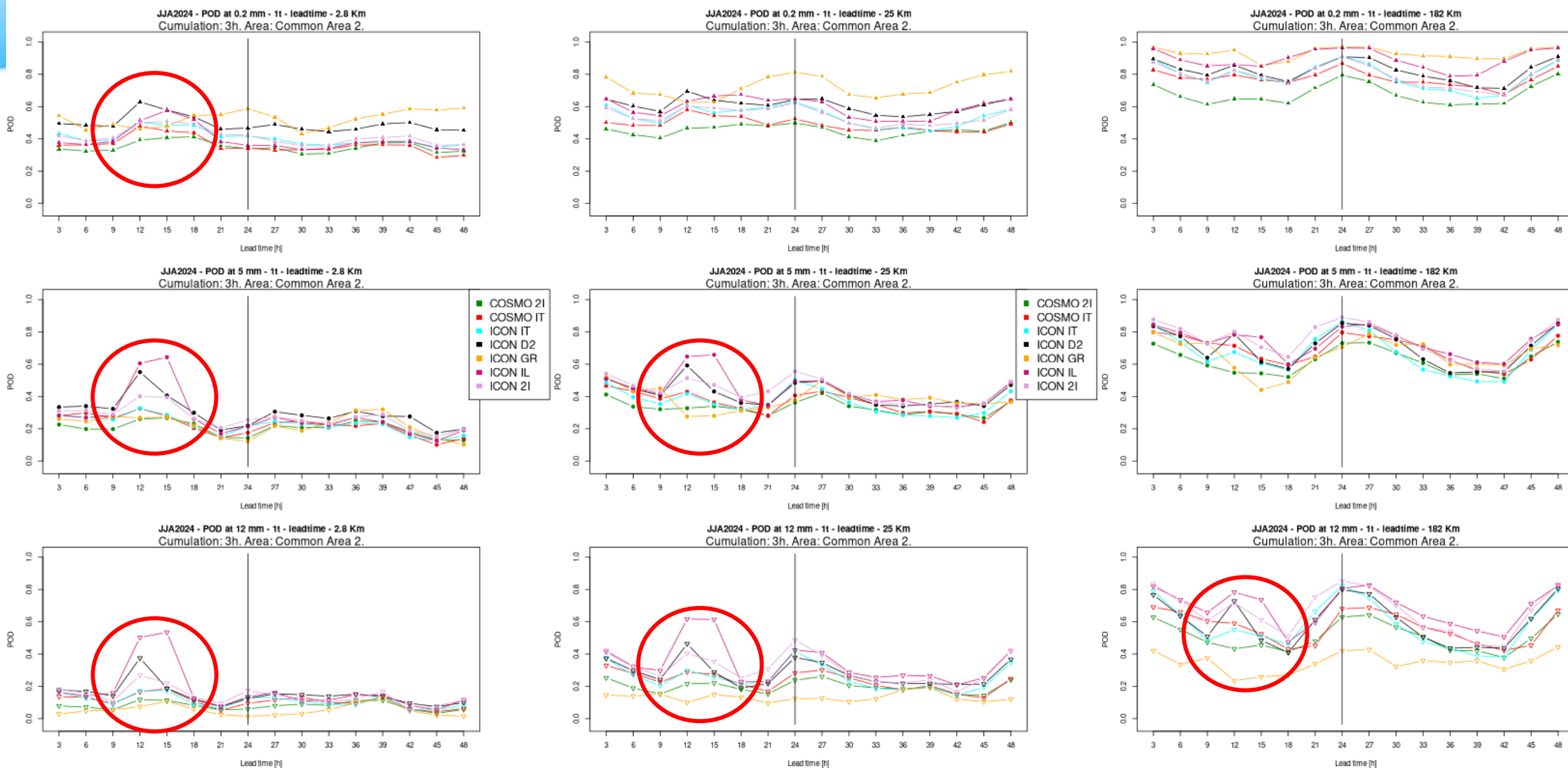
FAR (JJA2024) – Common Area 2

Decrease of FAR during the night



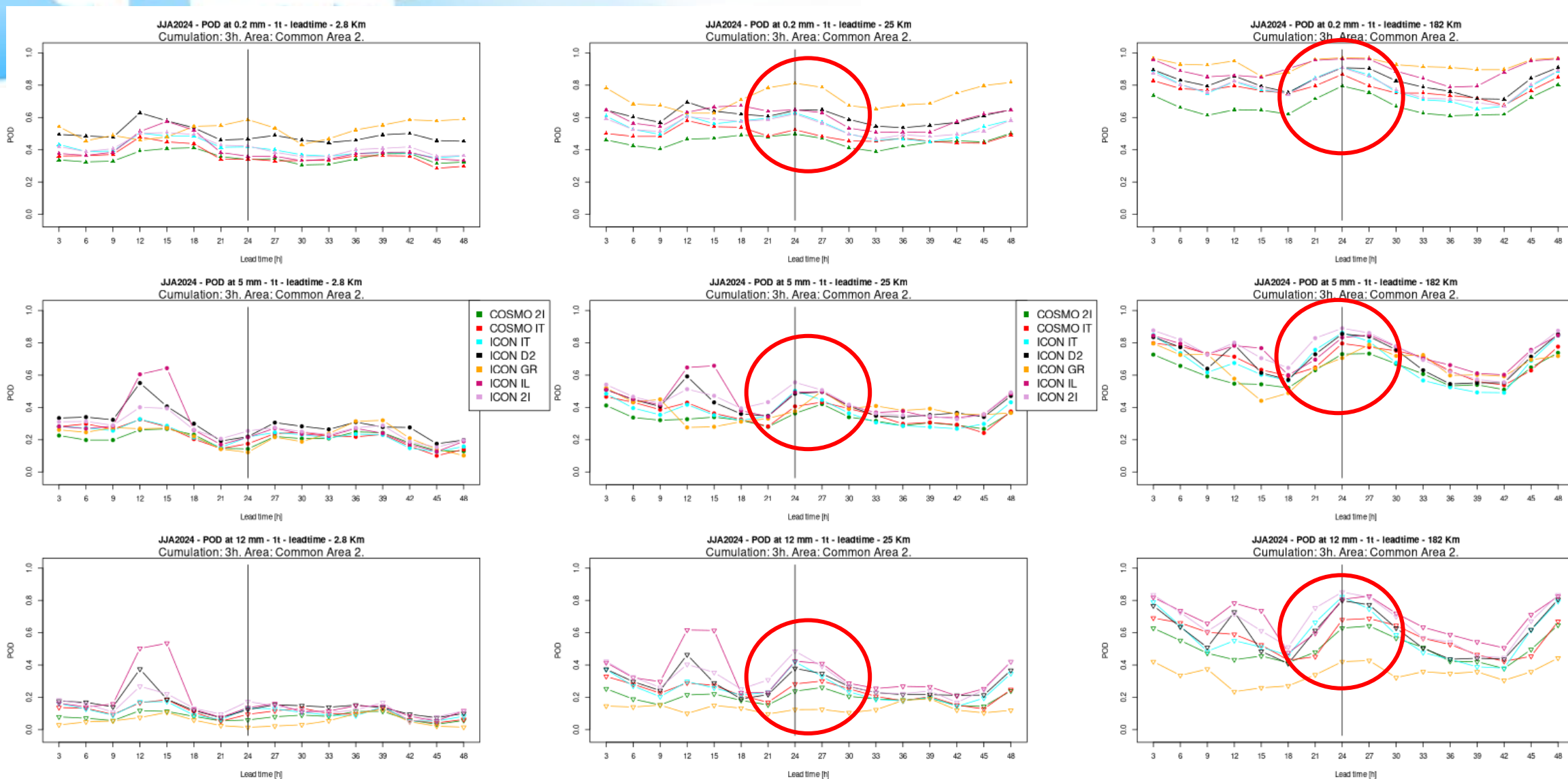
POD (JJA2024) – Common Area 2

Better POD values in the central part of day 1, not present in day 2



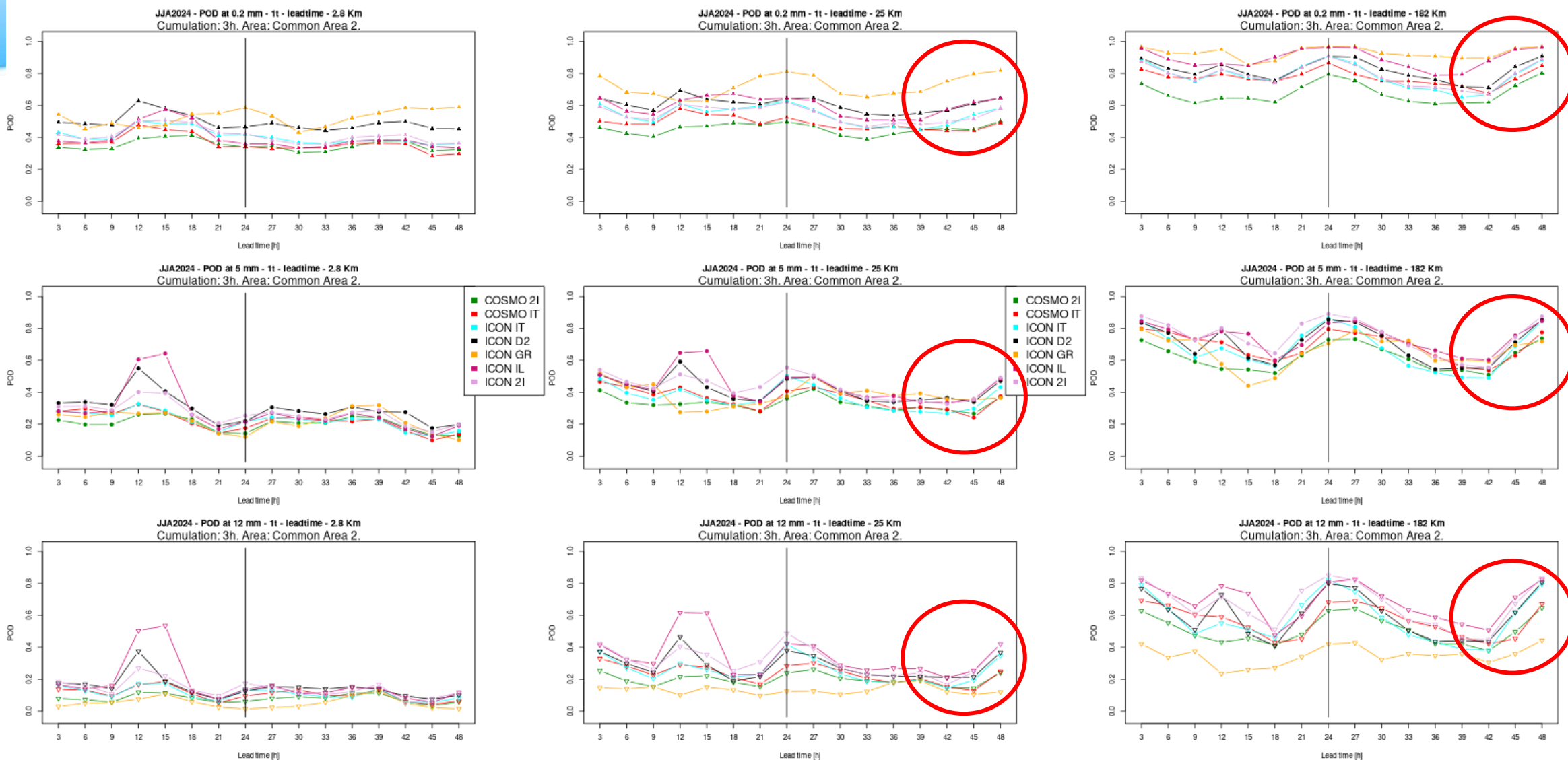
POD (JJA2024) – Common Area 2

POD higher values overnight (not for very small areas)



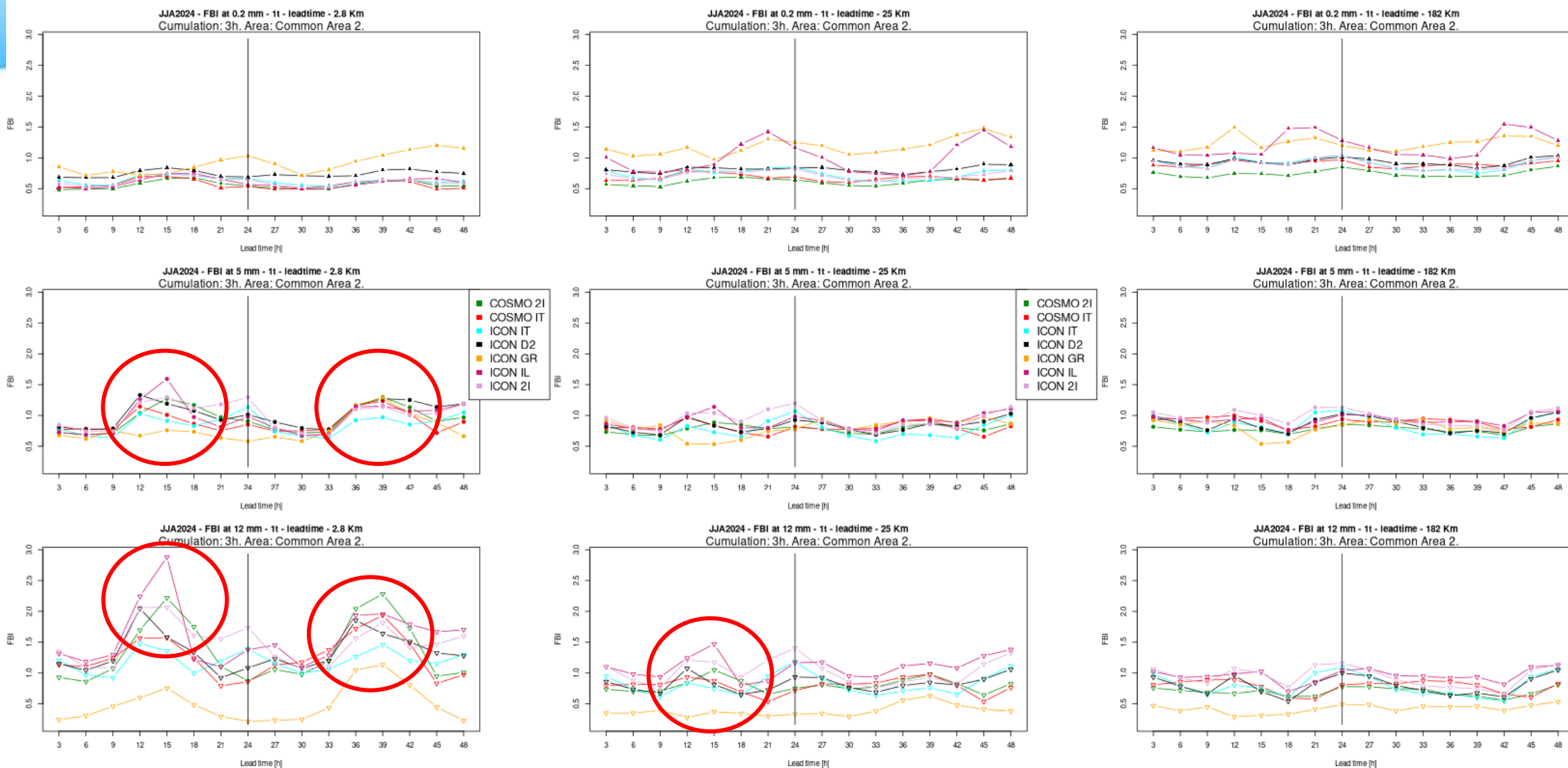
POD (JJA2024) – Common Area 2

New increase for POD towards the end of the second day (not for very small areas)



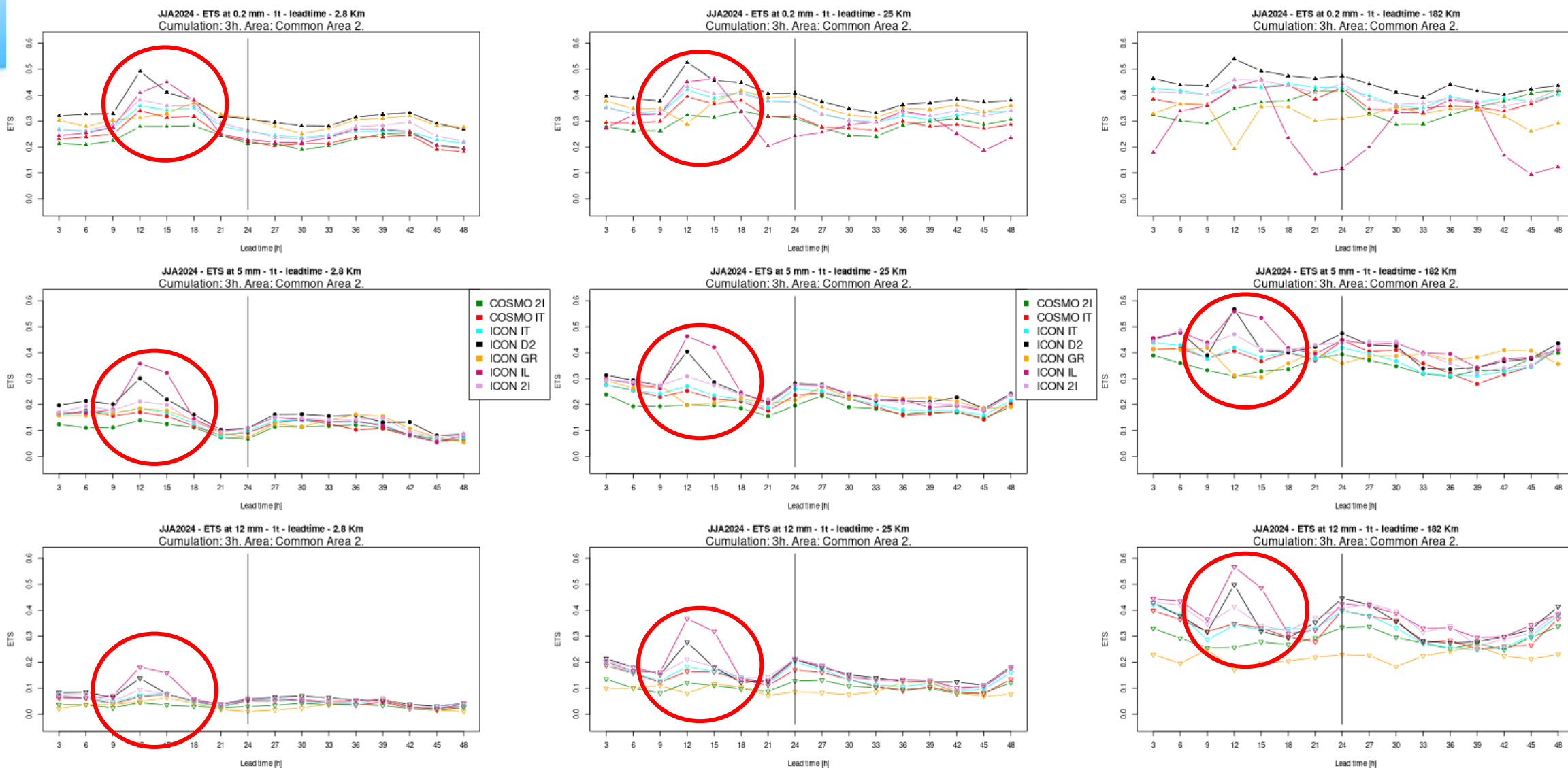
FBI (JJA2024) – Common Area 2

Overestimation in the middle of day one and two (higher thresholds, smaller scales)



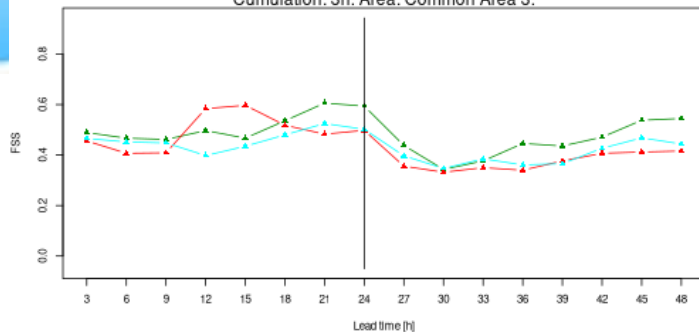
ETS (JJA2024) – Common Area 2

ETS higher values in the middle of day one for most of combinations

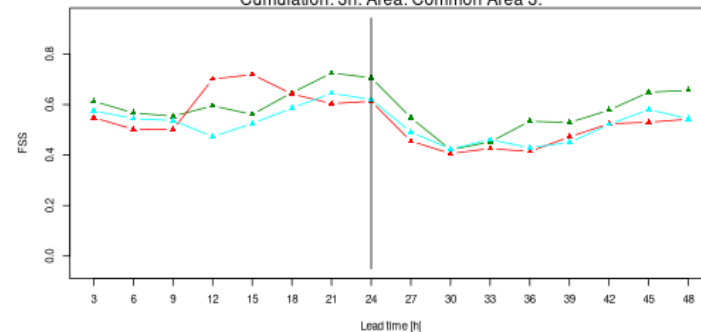


FSS (JJA2024) – Common Area 3

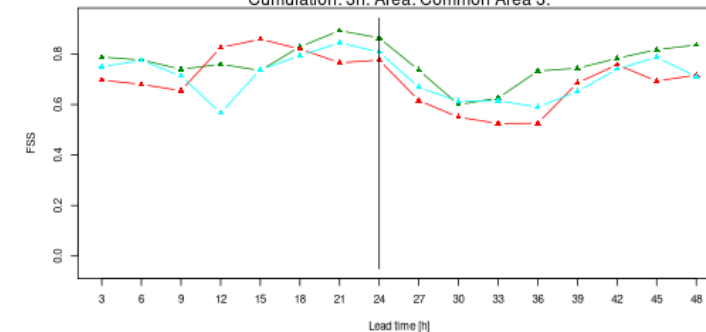
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



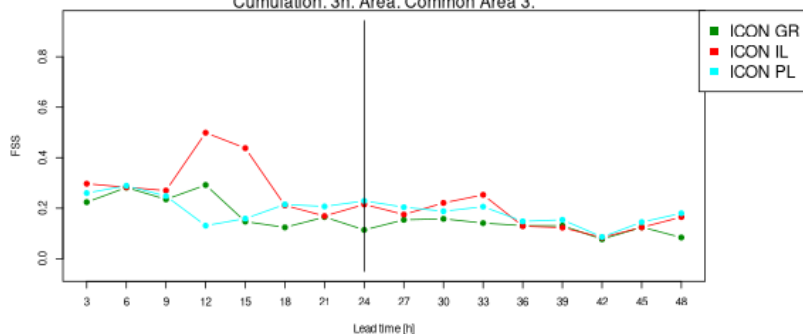
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



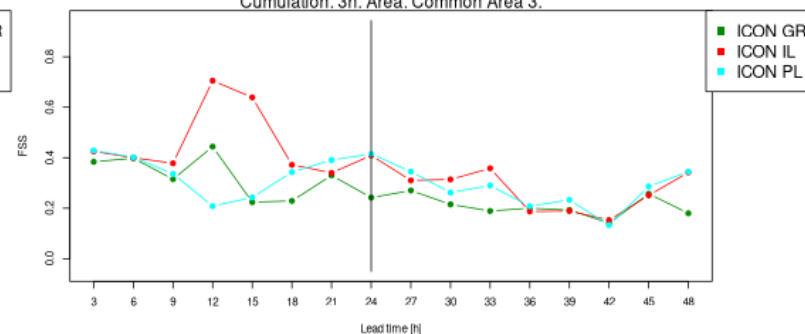
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



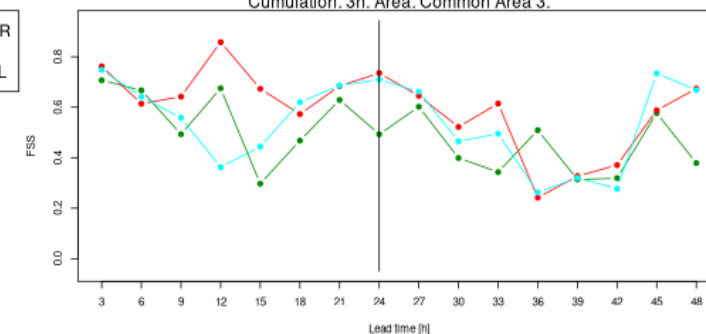
JJA2024 - FSS at 5 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



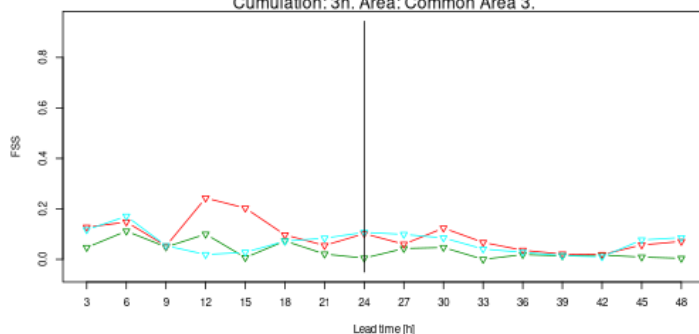
JJA2024 - FSS at 5 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



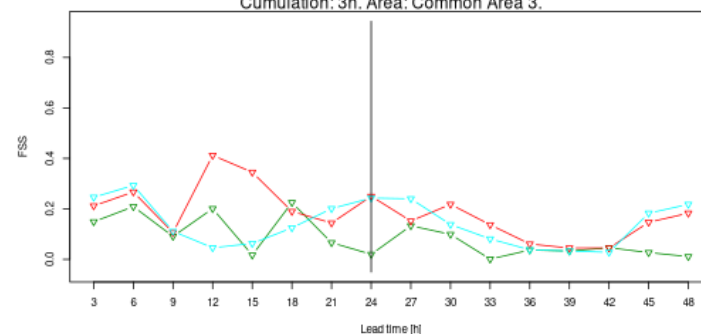
JJA2024 - FSS at 5 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



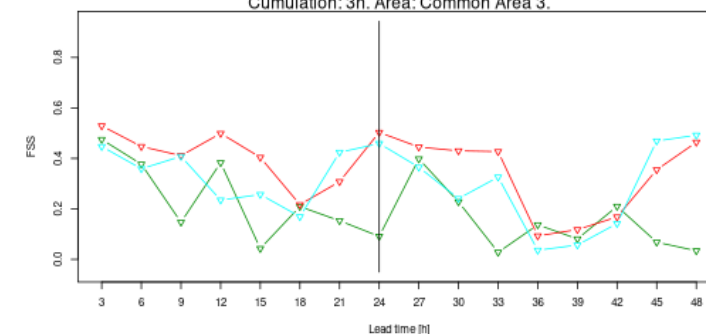
JJA2024 - FSS at 12 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



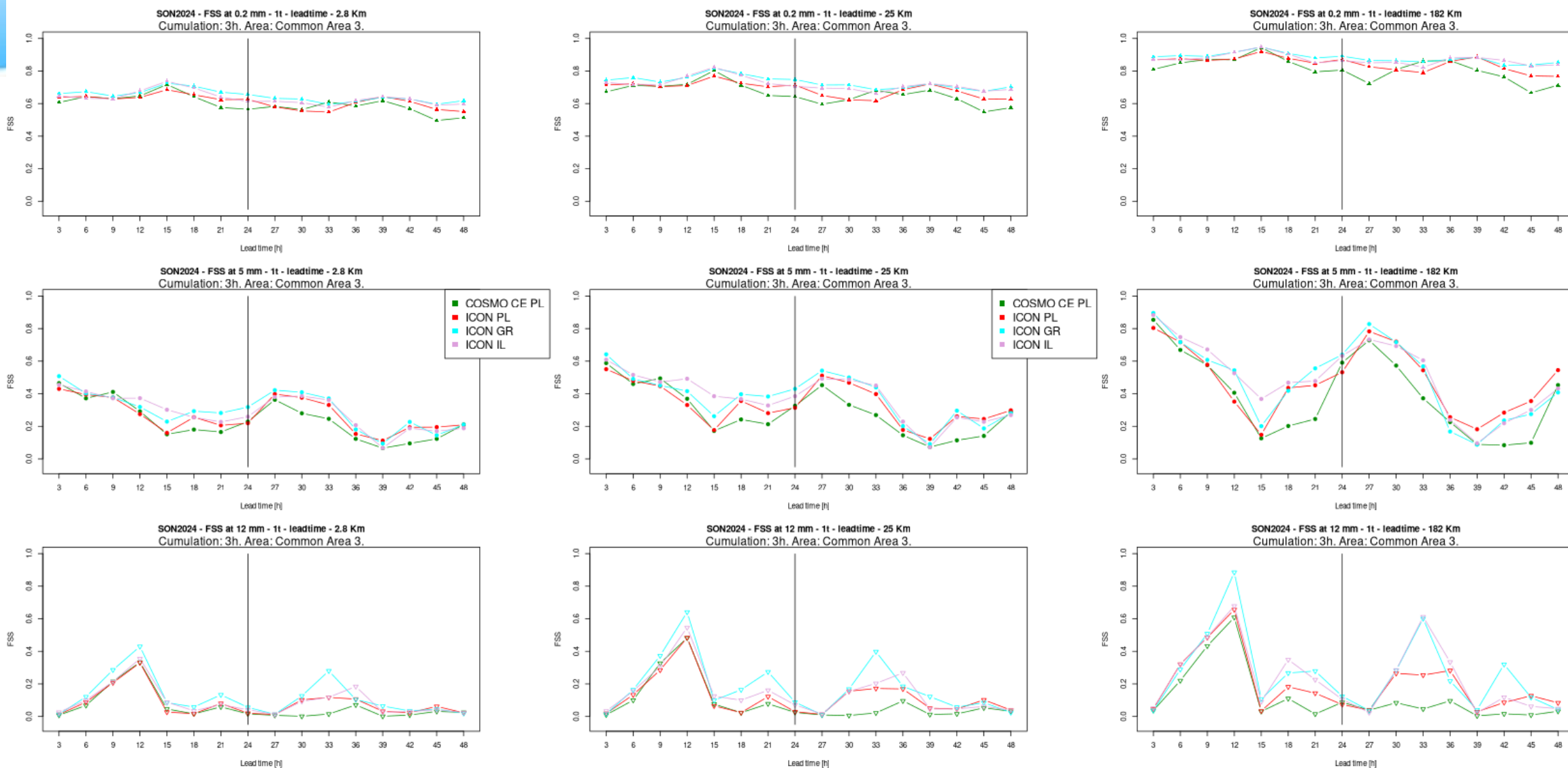
JJA2024 - FSS at 12 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



JJA2024 - FSS at 12 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



FSS (SON2024) – Common Area 3

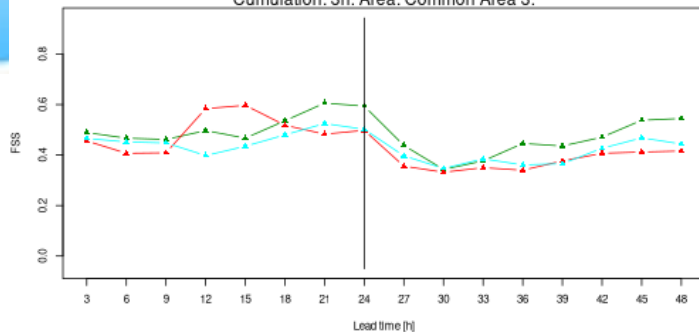


THANK YOU FOR YOUR ATTENTION!

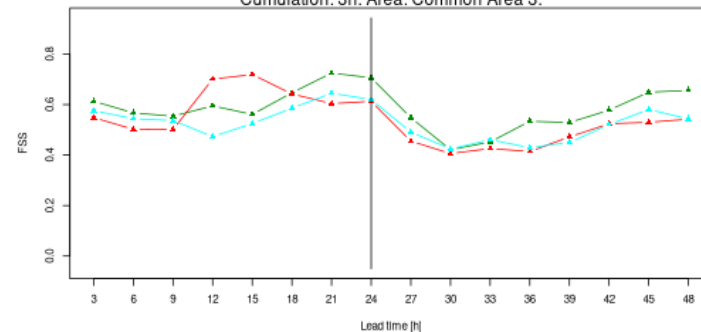
Please send all your comments and questions to:
naima.vela@arpa.piemonte.it

FSS (JJA2024) – Common Area 3

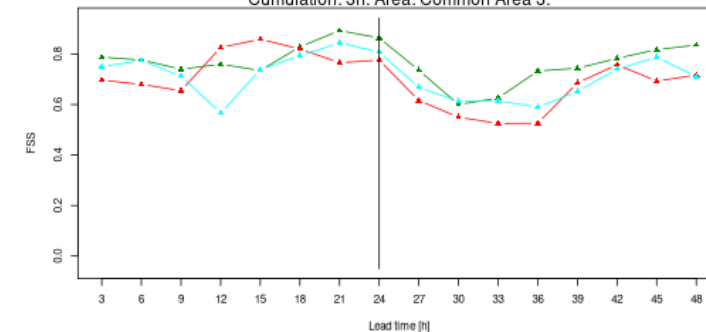
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



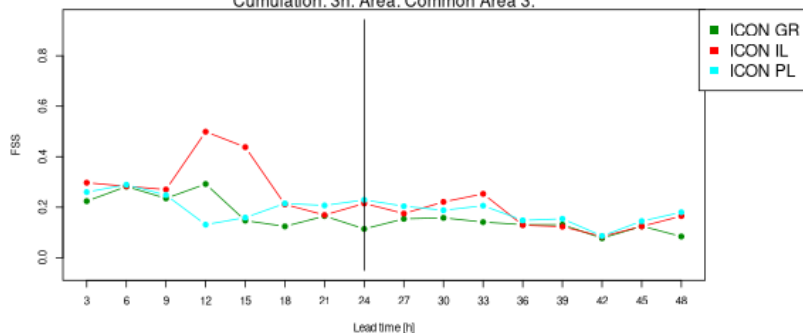
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



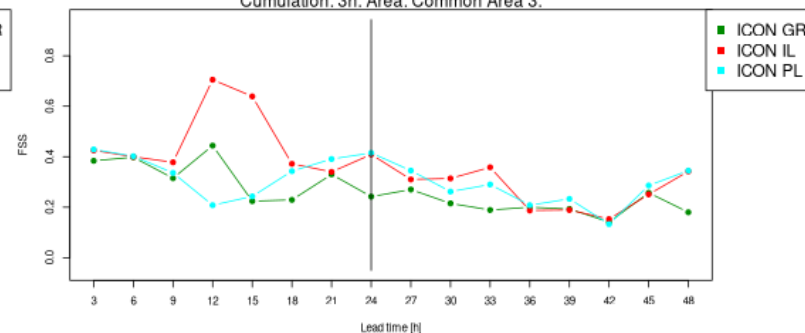
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



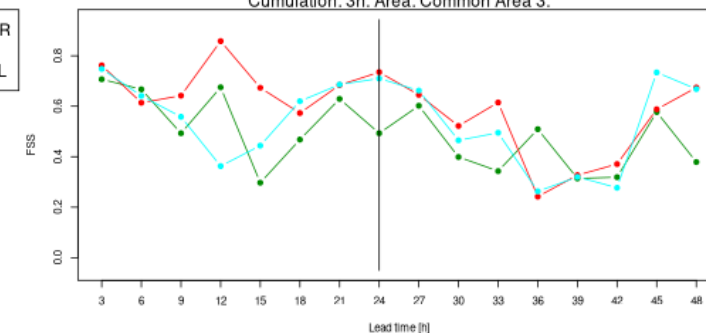
JJA2024 - FSS at 5 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



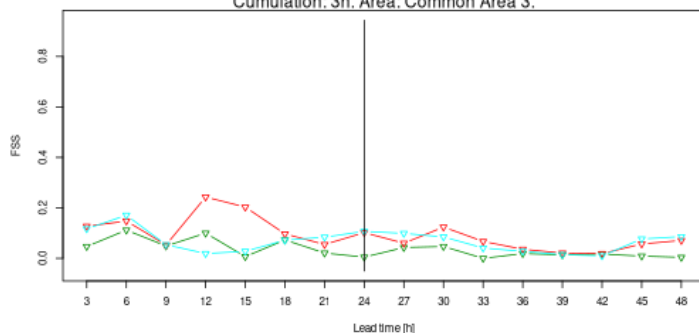
JJA2024 - FSS at 5 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



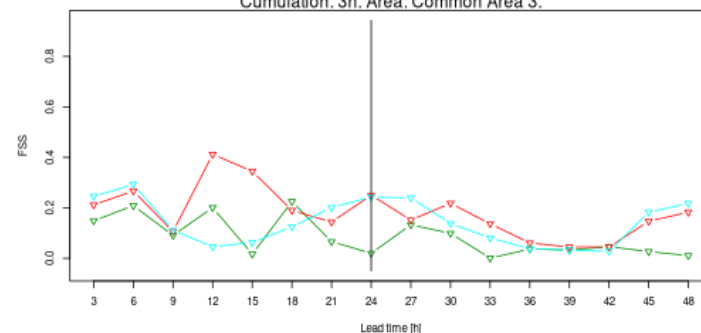
JJA2024 - FSS at 5 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



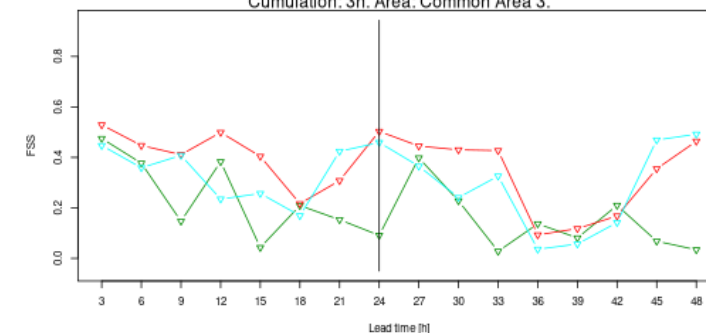
JJA2024 - FSS at 12 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



JJA2024 - FSS at 12 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.

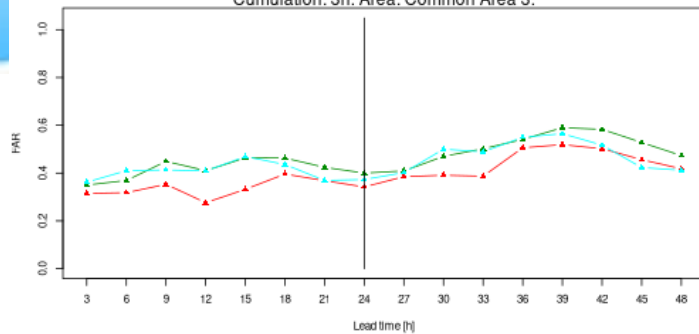


JJA2024 - FSS at 12 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.

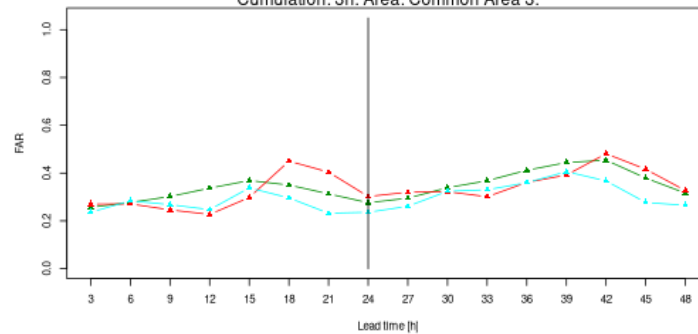


FAR (JJA2024) – Common Area 3

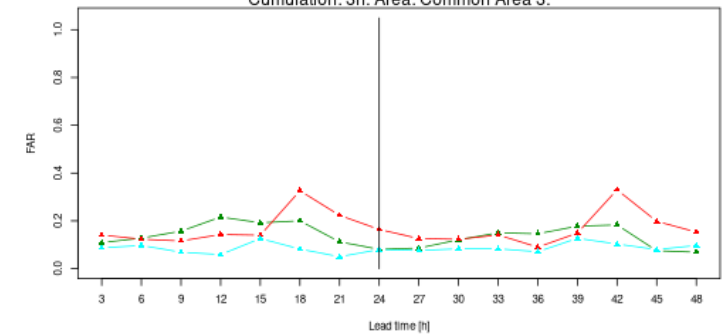
JJA2024 - FAR at 0.2 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



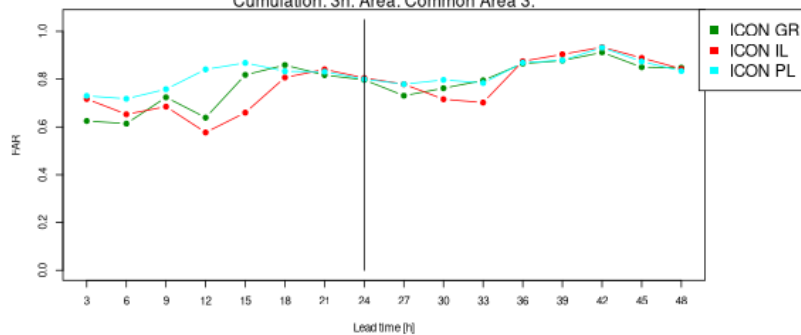
JJA2024 - FAR at 0.2 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



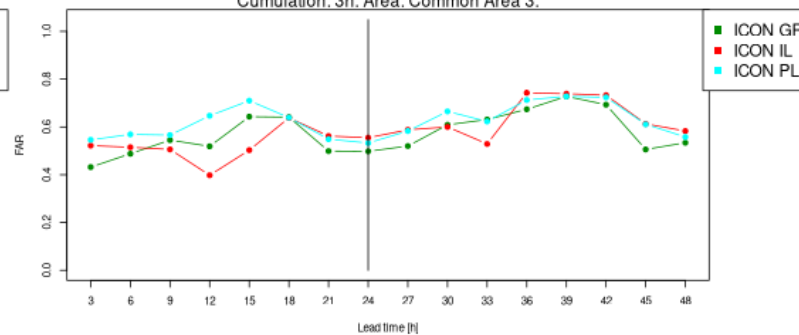
JJA2024 - FAR at 0.2 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



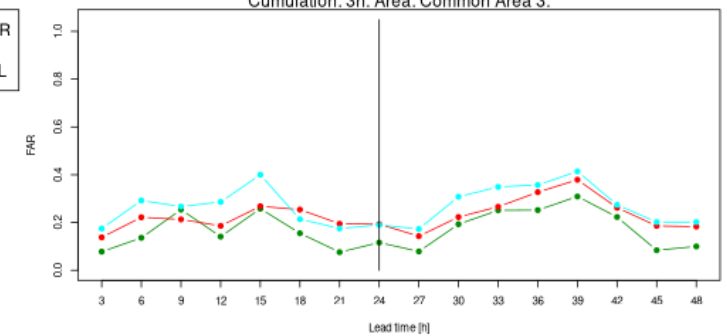
JJA2024 - FAR at 5 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



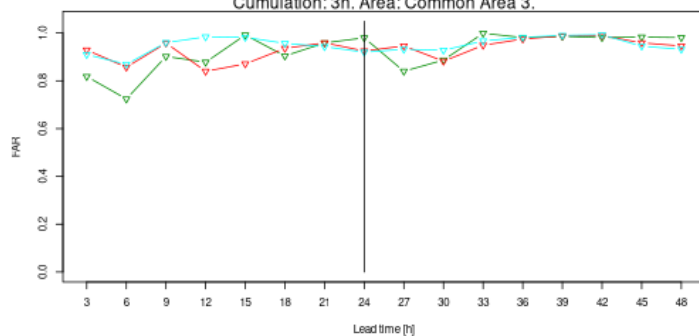
JJA2024 - FAR at 5 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



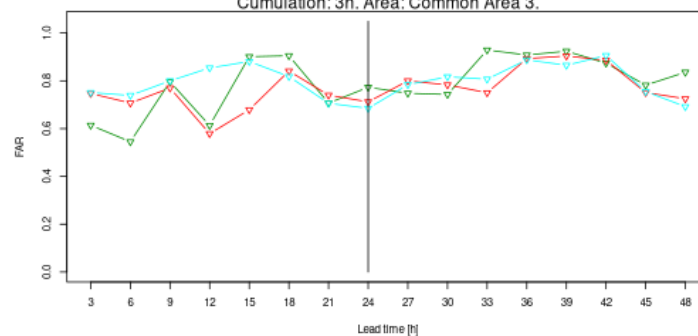
JJA2024 - FAR at 5 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



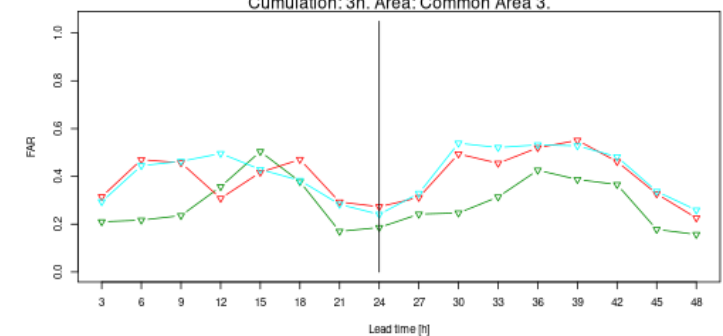
JJA2024 - FAR at 12 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



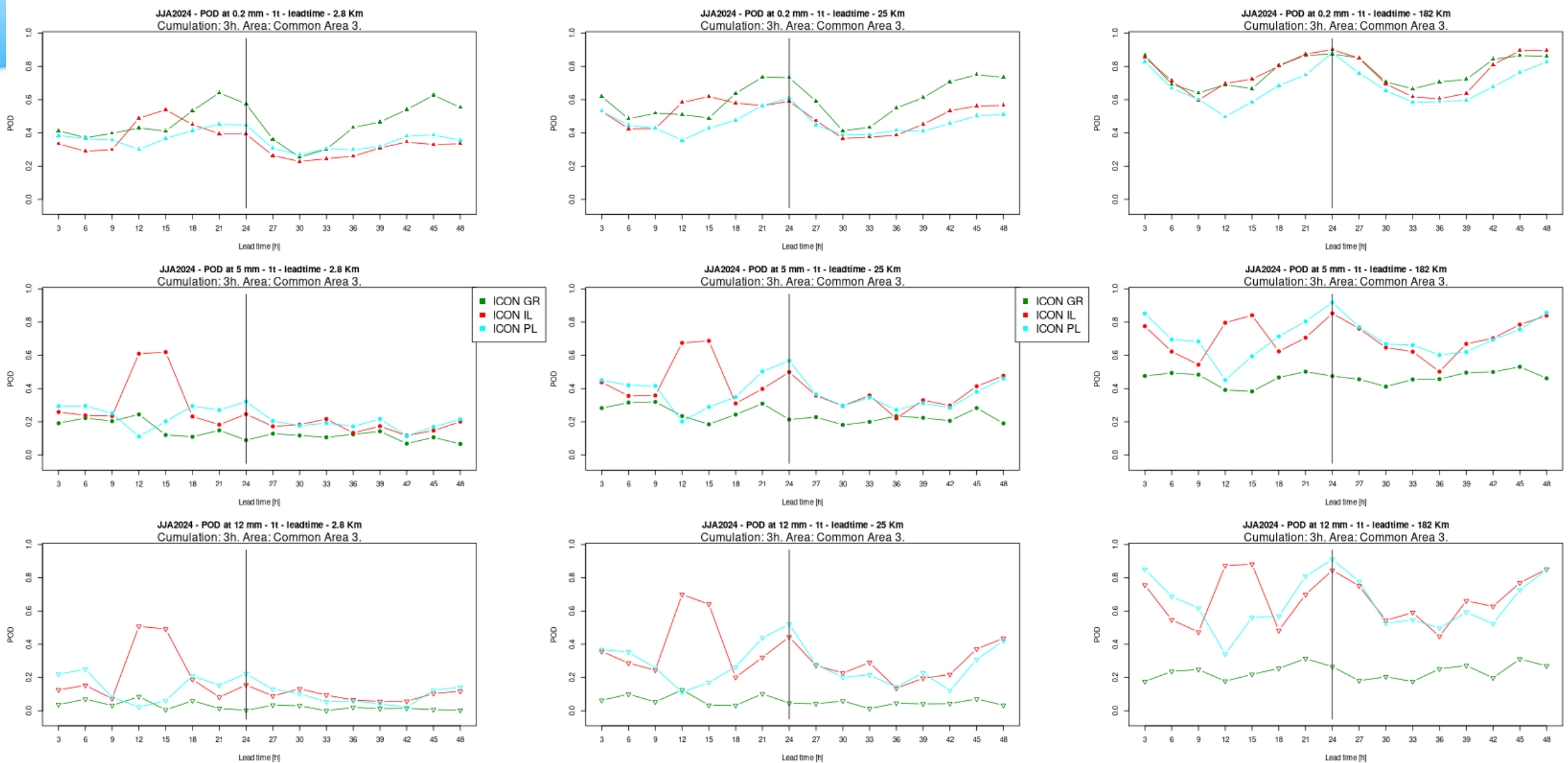
JJA2024 - FAR at 12 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



JJA2024 - FAR at 12 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.

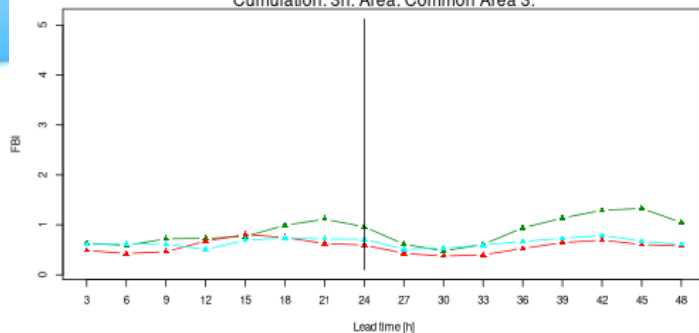


POD (JJA2024) – Common Area 3

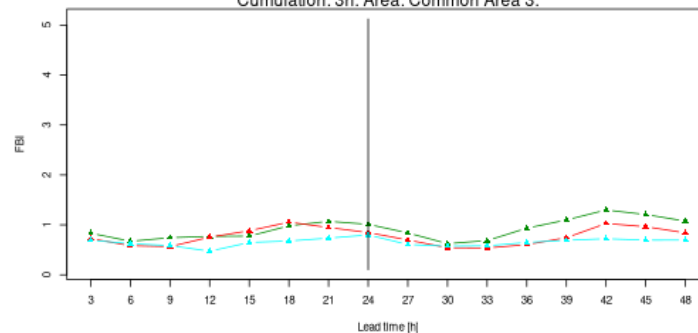


FBI (JJA2024) – Common Area 3

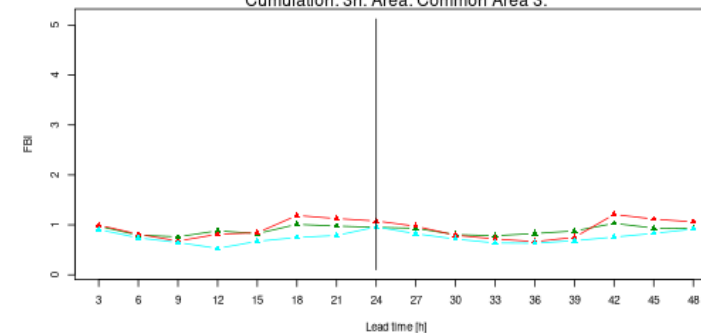
JJA2024 - FBI at 0.2 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



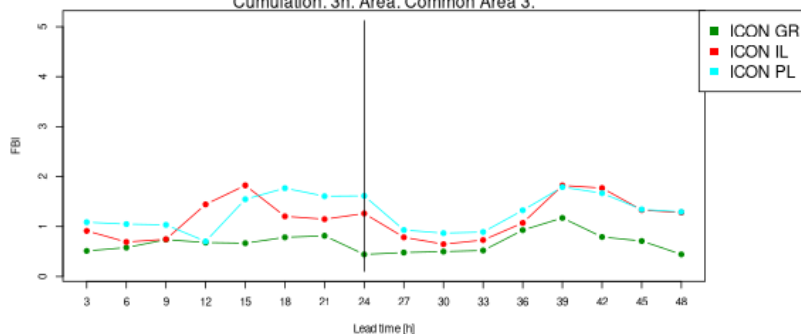
JJA2024 - FBI at 0.2 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



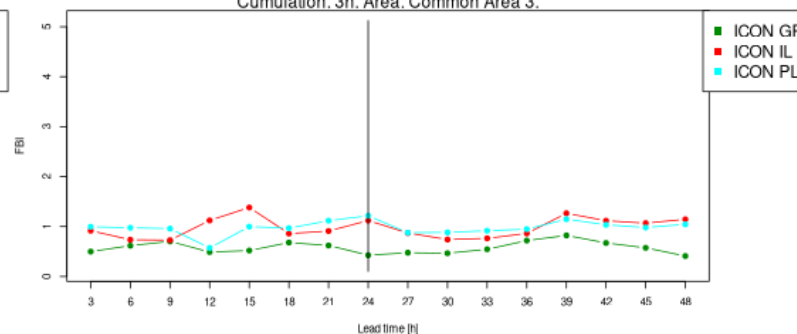
JJA2024 - FBI at 0.2 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



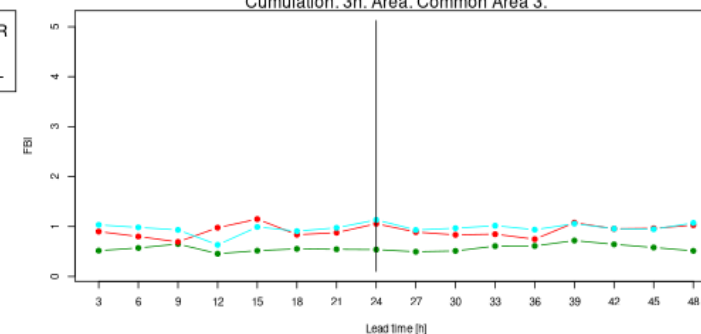
JJA2024 - FBI at 5 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



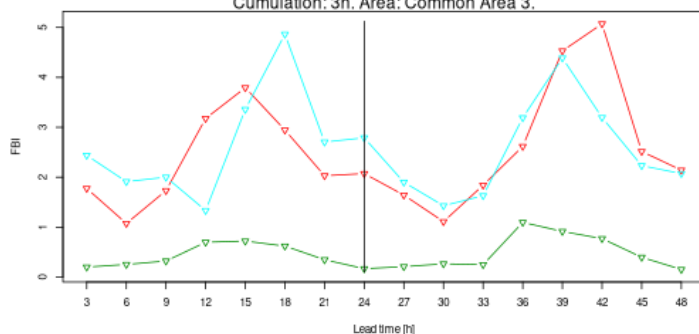
JJA2024 - FBI at 5 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



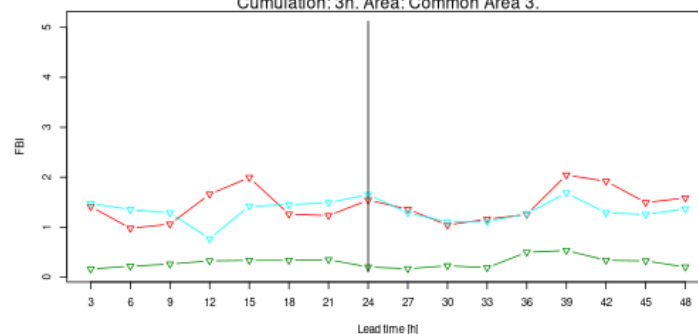
JJA2024 - FBI at 5 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



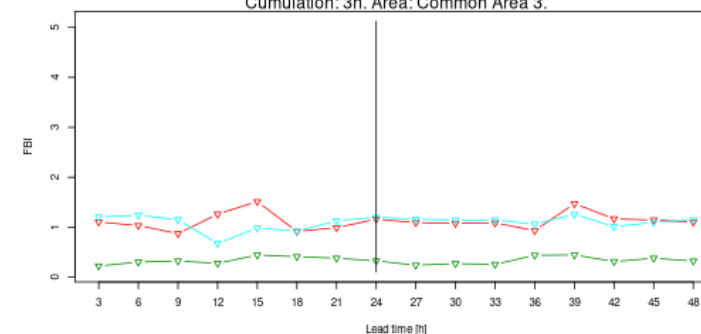
JJA2024 - FBI at 12 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



JJA2024 - FBI at 12 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.

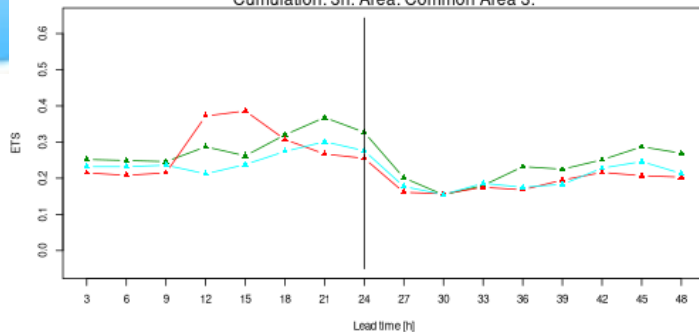


JJA2024 - FBI at 12 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.

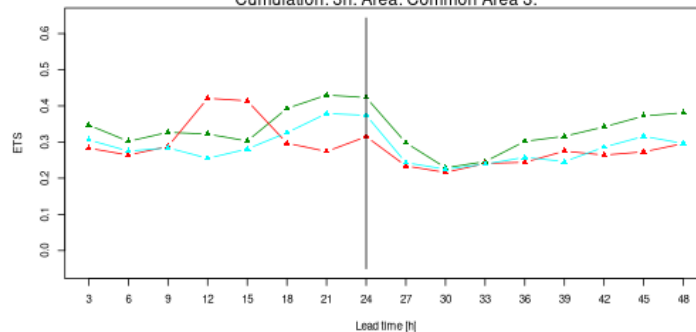


ETS (JJA2024) – Common Area 3

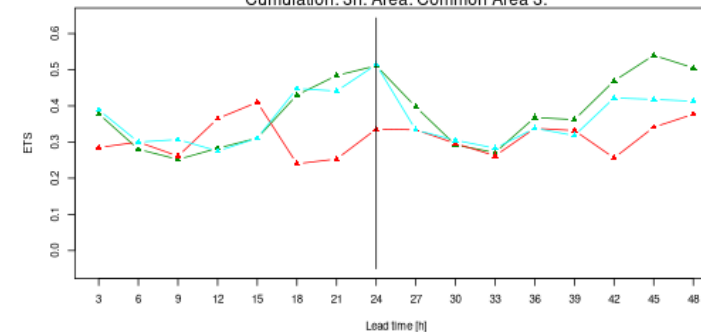
JJA2024 - ETS at 0.2 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



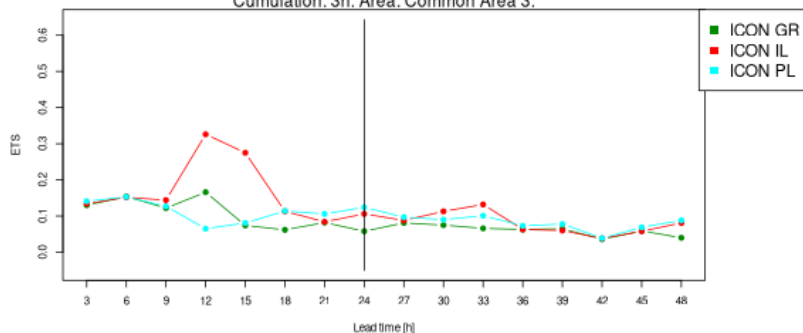
JJA2024 - ETS at 0.2 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



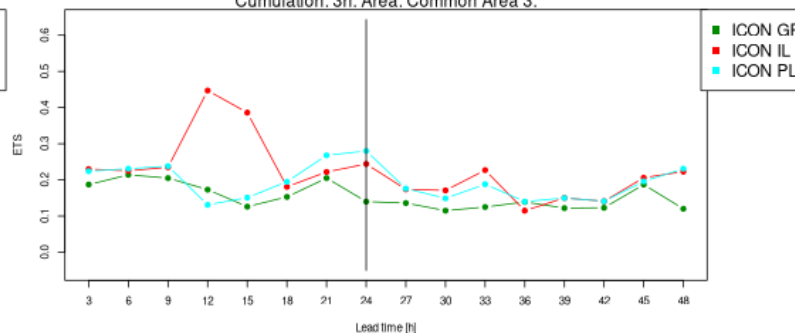
JJA2024 - ETS at 0.2 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



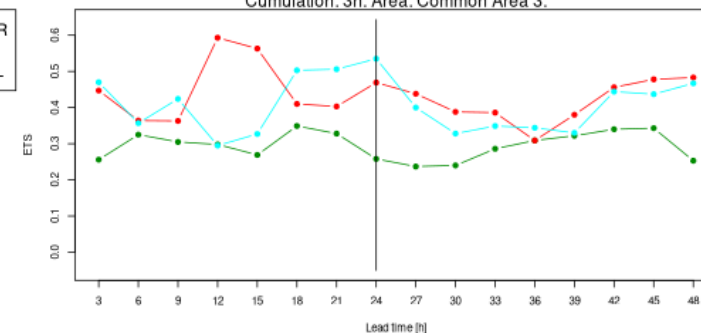
JJA2024 - ETS at 5 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



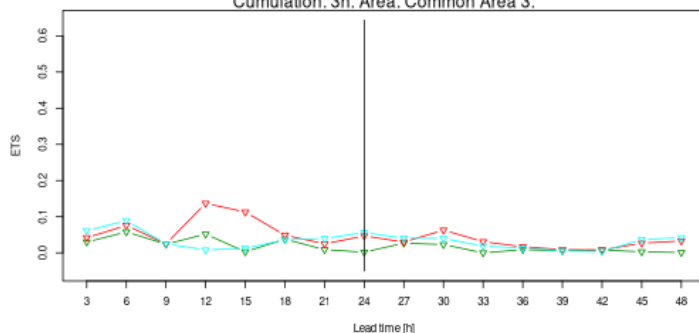
JJA2024 - ETS at 5 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



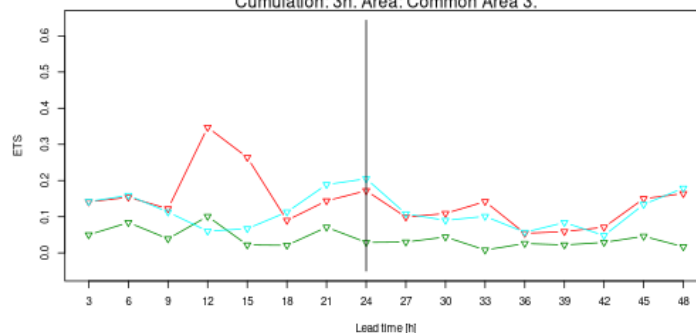
JJA2024 - ETS at 5 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.



JJA2024 - ETS at 12 mm - 1t - leadtime - 2.8 Km
Cumulation: 3h. Area: Common Area 3.



JJA2024 - ETS at 12 mm - 1t - leadtime - 25 Km
Cumulation: 3h. Area: Common Area 3.



JJA2024 - ETS at 12 mm - 1t - leadtime - 182 Km
Cumulation: 3h. Area: Common Area 3.

