



Fuzzy verification on Common Areas

New plots

Naima Vela

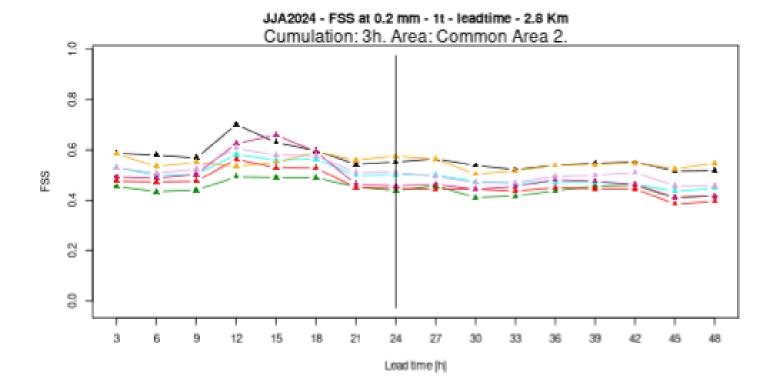


January the 21st 2025 – WG5 online meeting

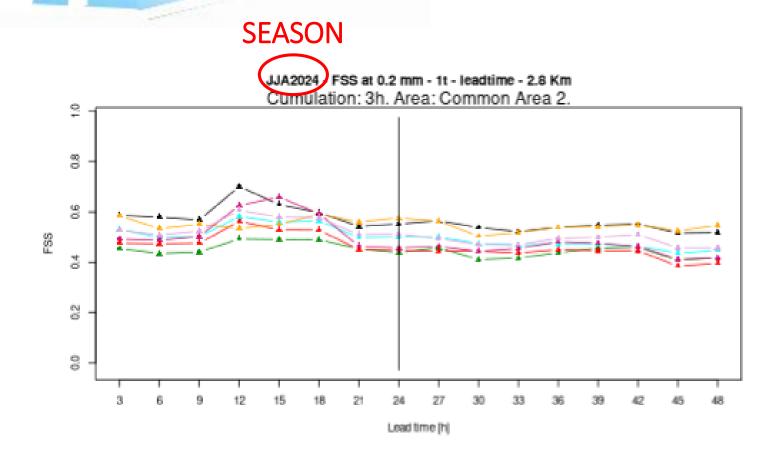


na <mark>N</mark>azional rotezione

January the 21st 2025 – WG5 online meeting

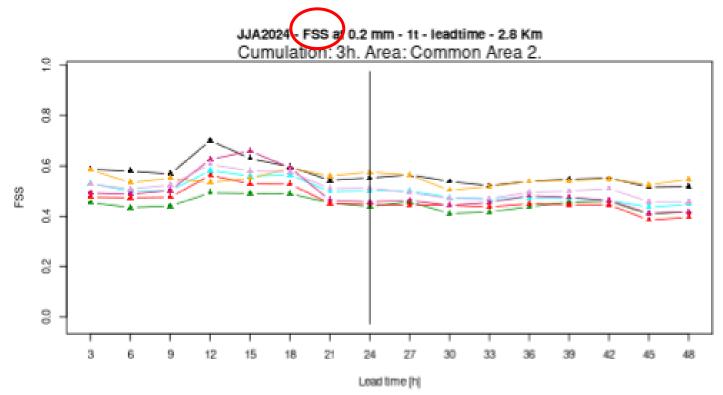






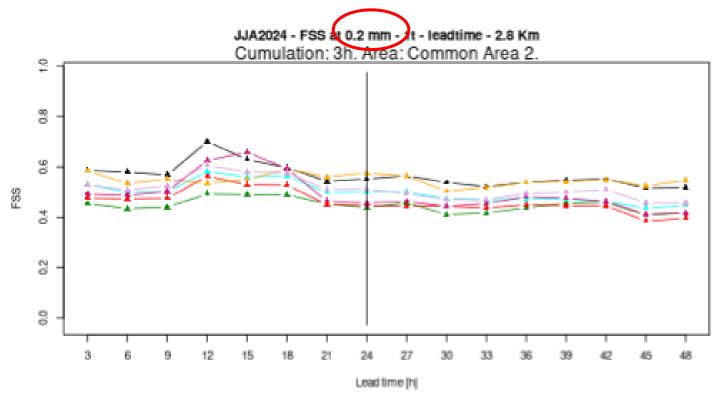


PRODUCT

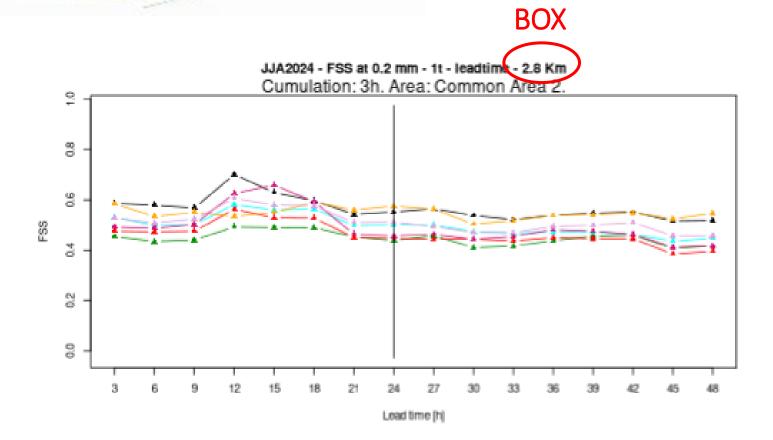




THRESHOLD

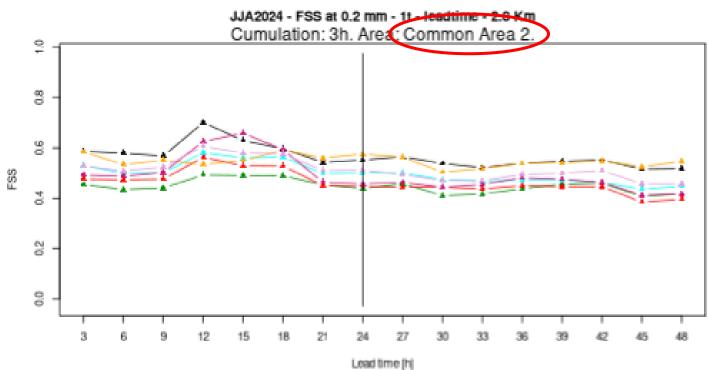




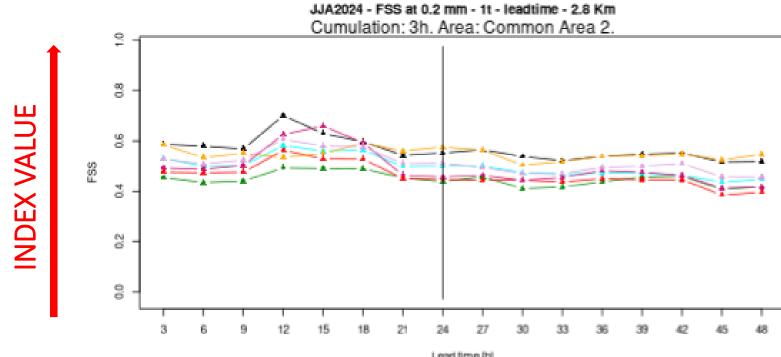






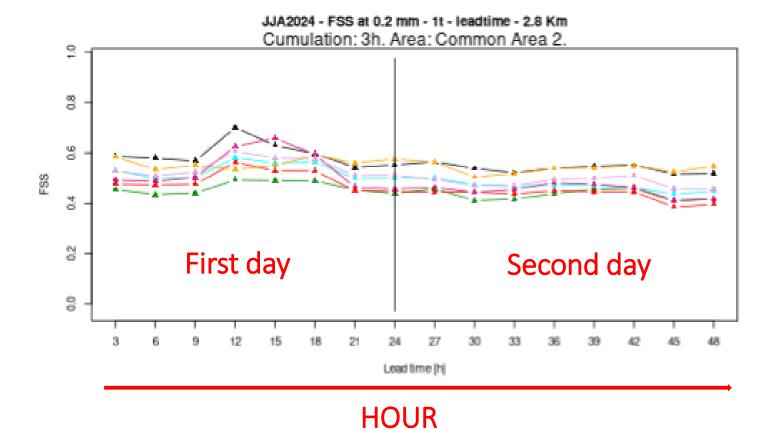




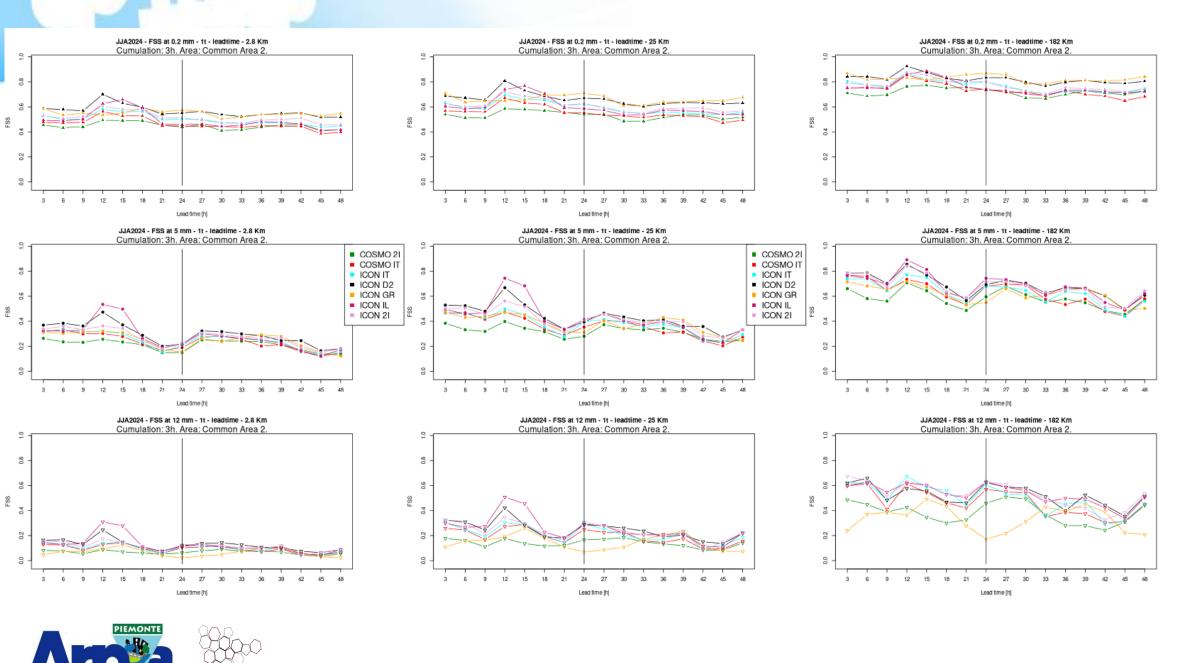


Lead time [h]





PIEMONTE Agenzia Regionale per la Protezione Ambientale



istema Nazionale

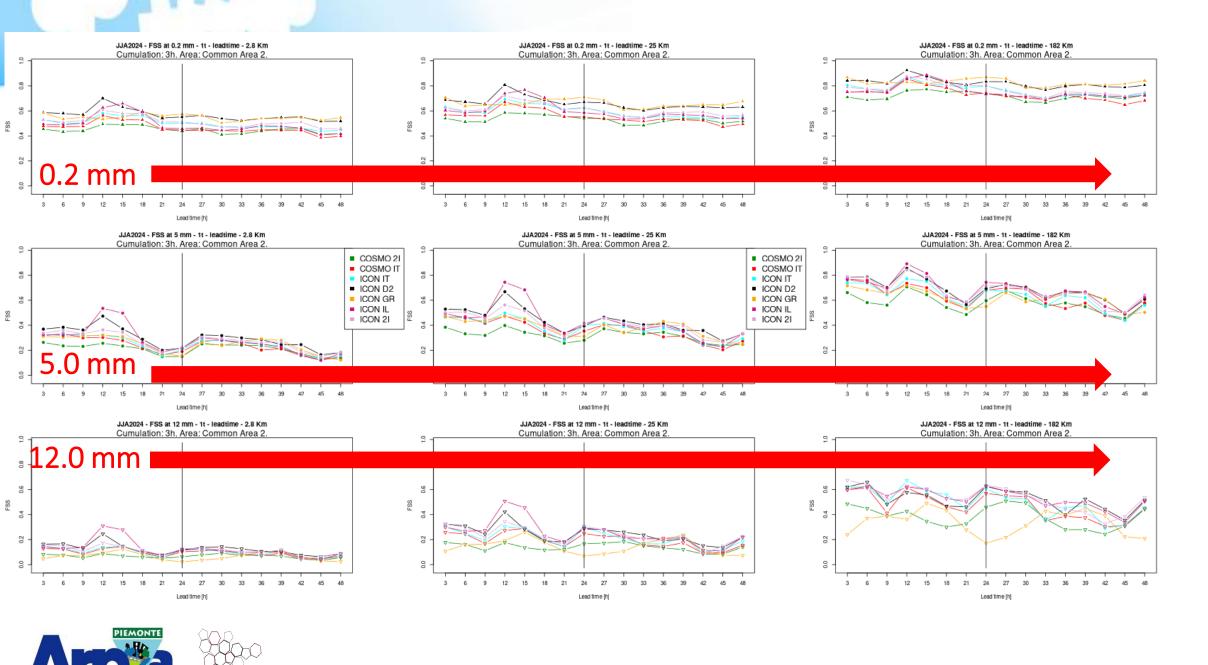
dell'Ambiente

per la Protezione

Agenzia Regionale

per la Protezione Ambientale

January the 21st 2025



istema Nazionale

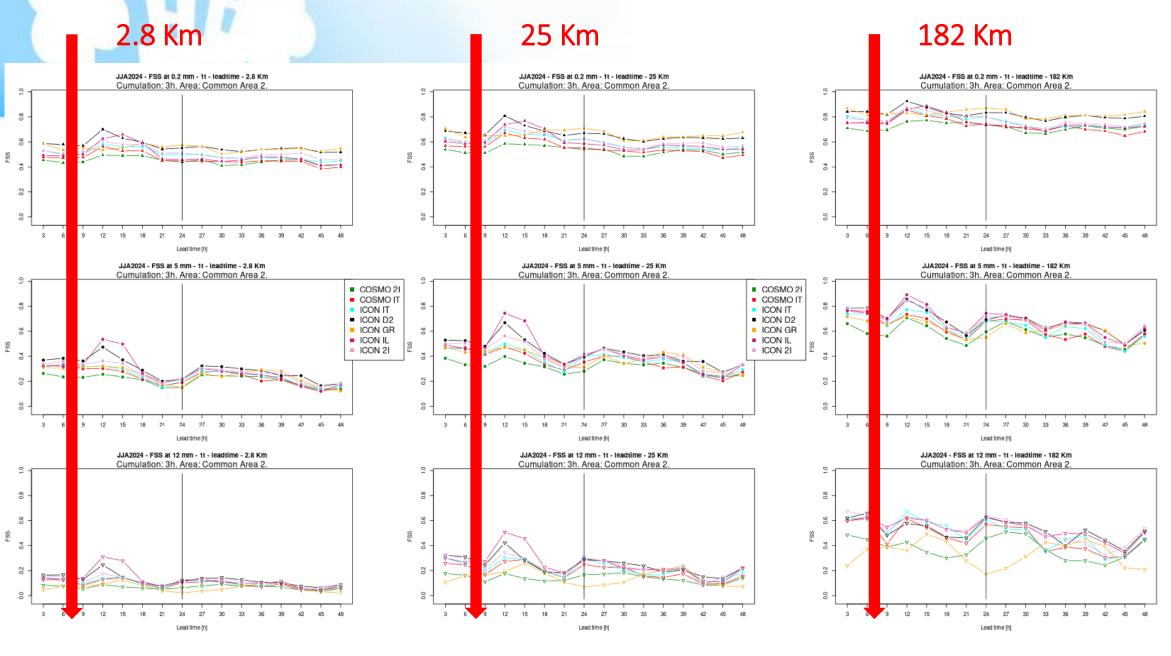
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per la Protezione

Agenzia Regional

per la Protezione Ambientale

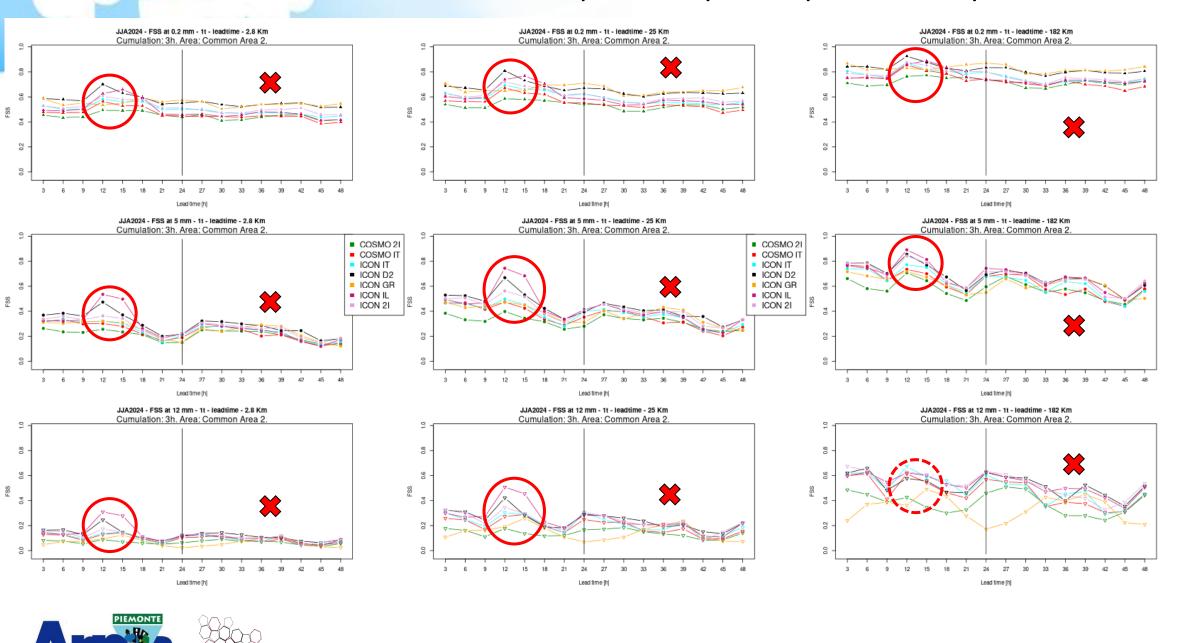
January the 21st 2025





FSS – Common Area 2

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



stema Nazionale

dell'Ambiente

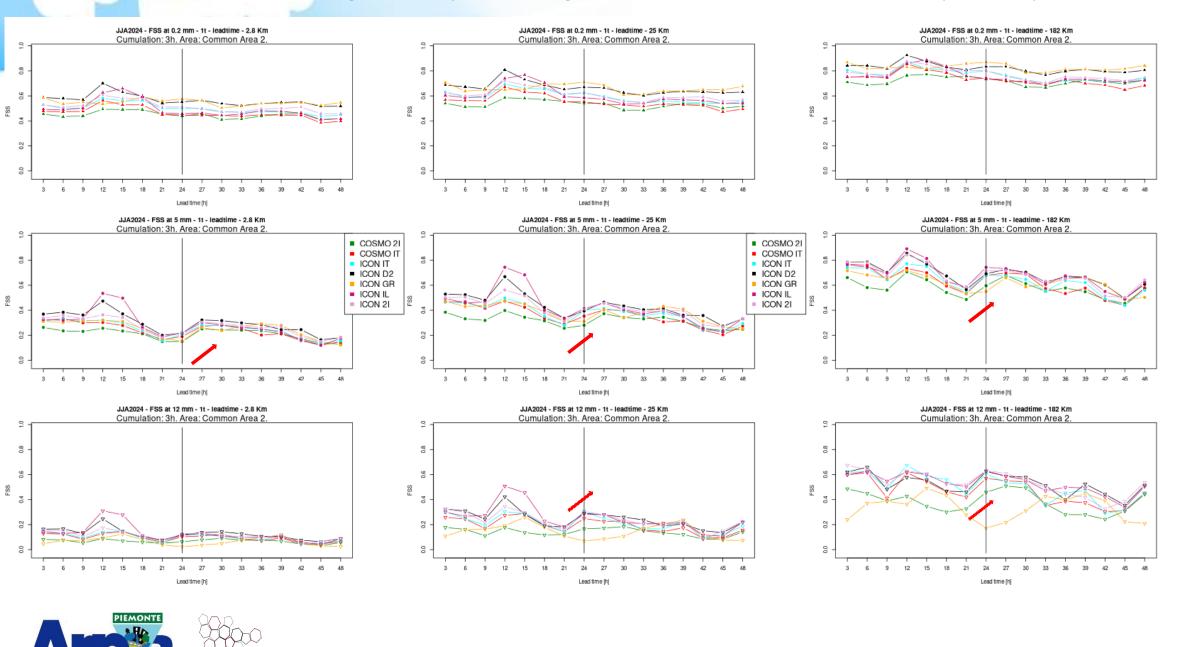
per la Protezione

Agenzia Regional

per la Protezione Ambientale

FSS (JJA2024) – Common Area 2

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



Sistema Nazionale per la Protezione

dell'Ambiente

per la Protezione Ambientale

January the 21st 2025

FAR (JJA2024) – Common Area 2

Decrease of FAR during the night

45 48

45

COSMO 21

COSMO IT

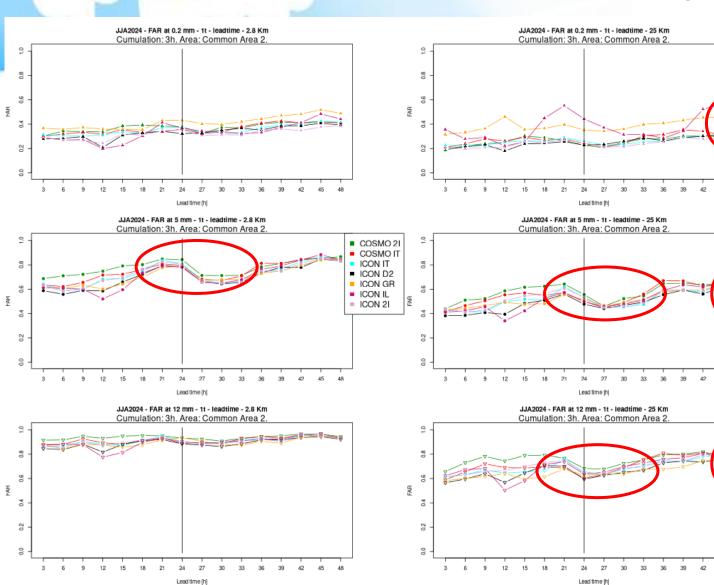
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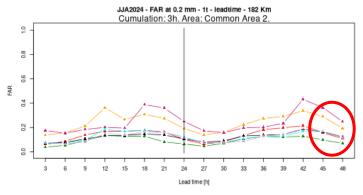
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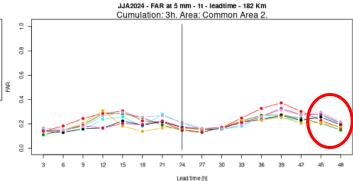
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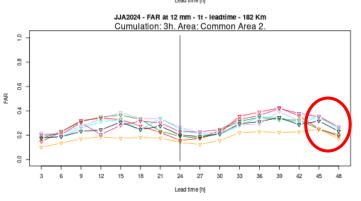
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ICON 21







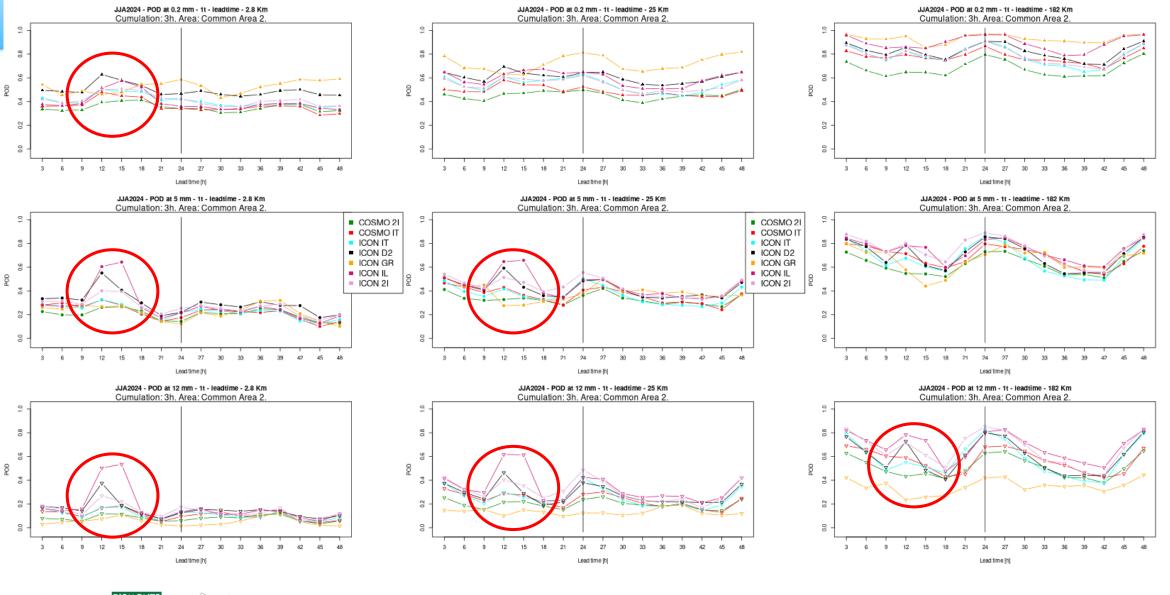




Cistema Nazionale per la Protezione

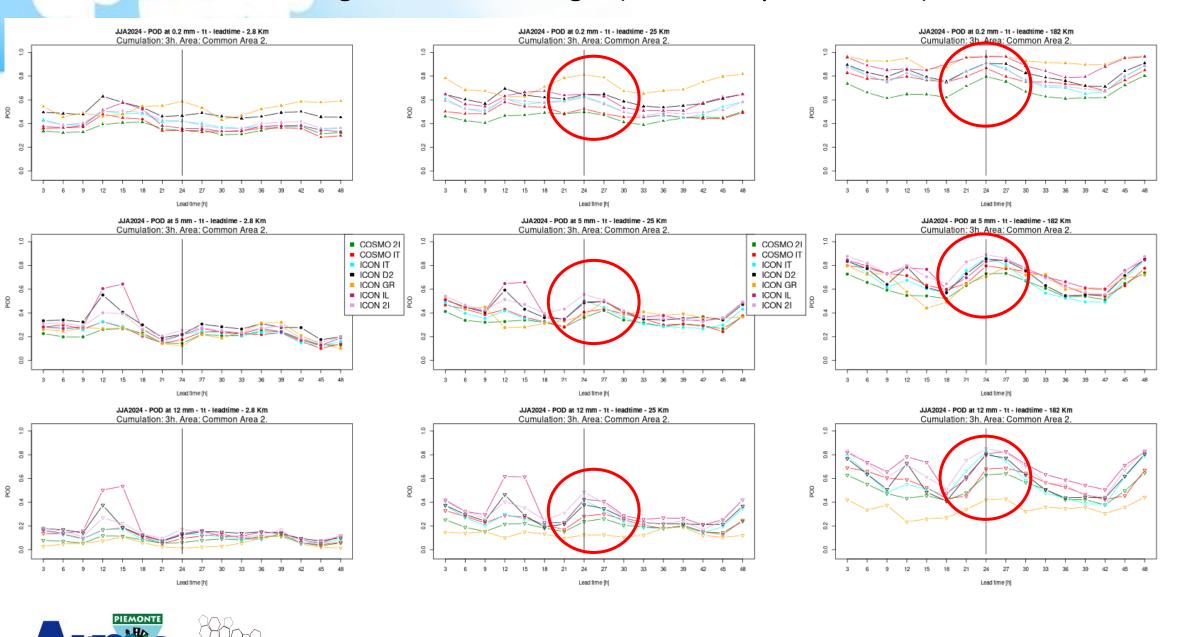
dell'Ambiente

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





POD higher values overnight (not for very small areas)



stema Nazionale

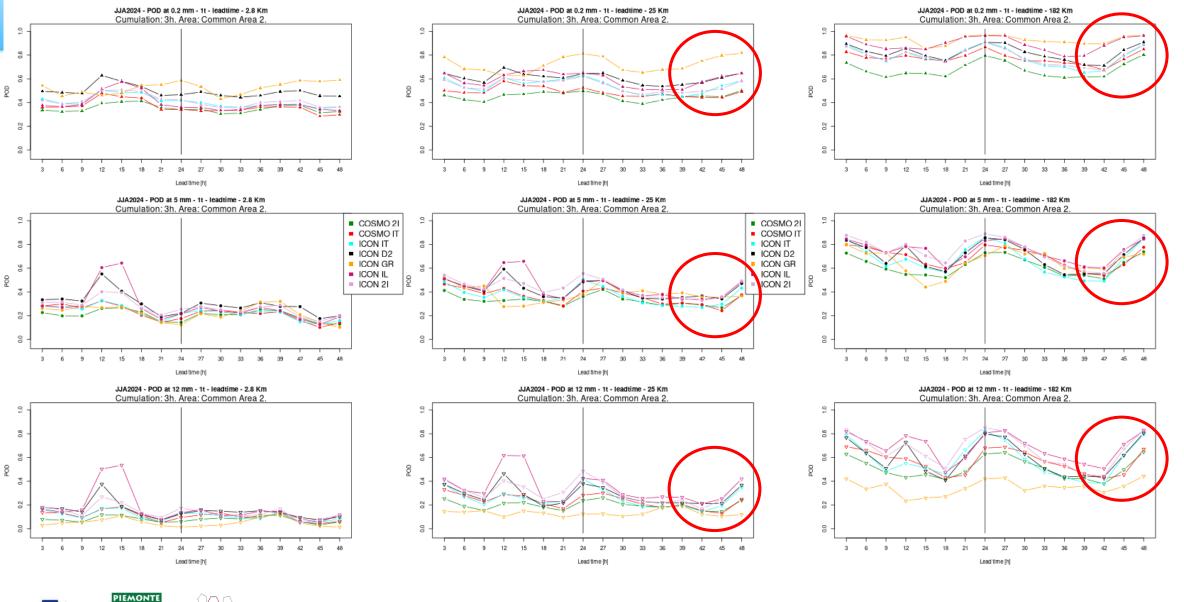
dell'Ambiente

per la Protezione

Agenzia Regional

per la Protezione Ambientale

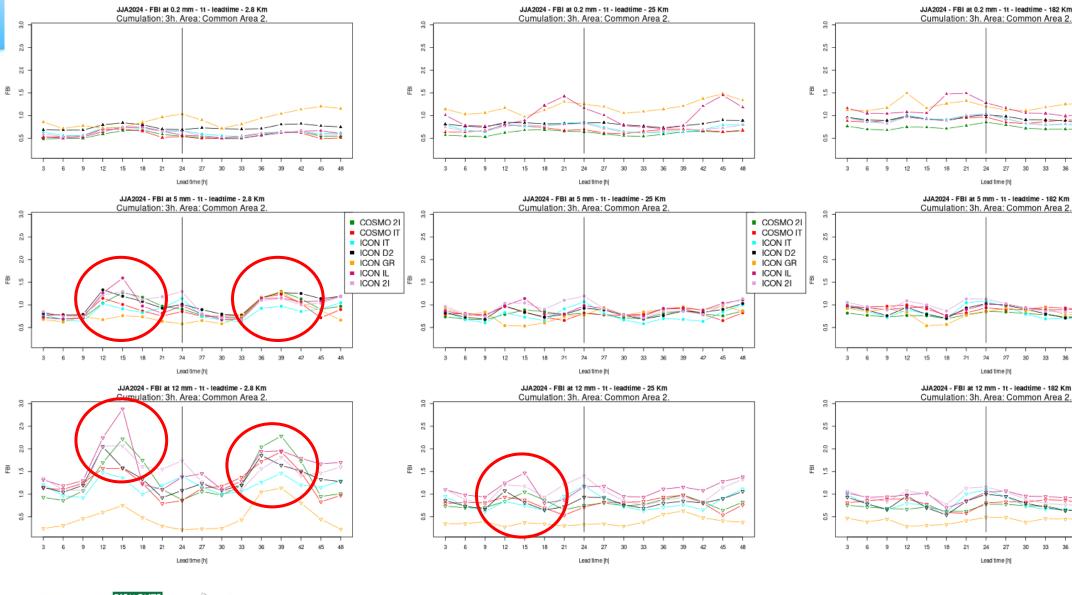
New increase for POD towards the end of the second day (not for very small areas)



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FBI (JJA2024) – Common Area 2

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





dell'Ambiente

January the 21st 2025

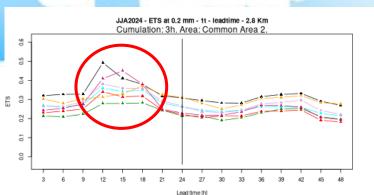
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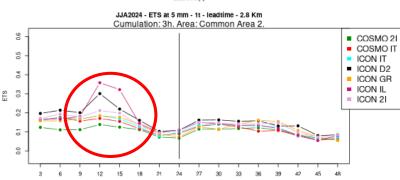
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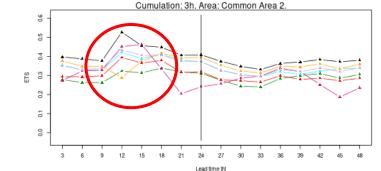
ETS (JJA2024) – Common Area 2

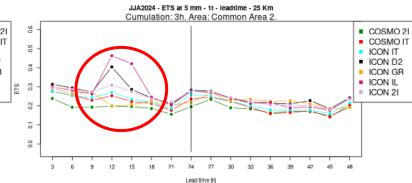
ETS higher values in the middle of day one for most of combinations

JJA2024 - ETS at 0.2 mm - 1t - leadtime - 25 Km

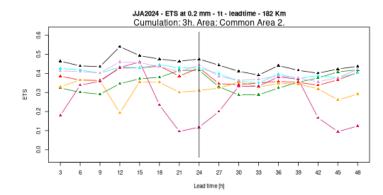


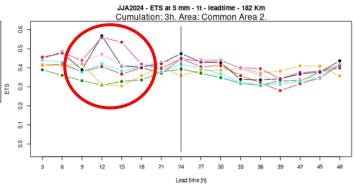






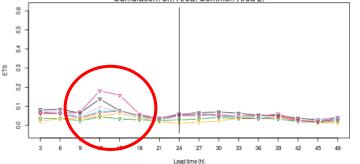
JJA2024 - ETS at 12 mm - 1t - leadtime - 25 Km

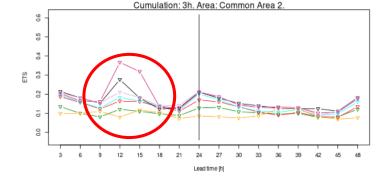


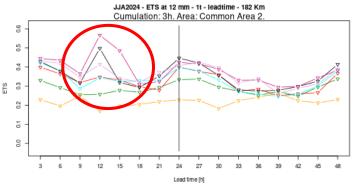


JJA2024 - ETS at 12 mm - 1t - leadtime - 2.8 Km Cumulation: 3h. Area: Common Area 2.

Lead time [h]

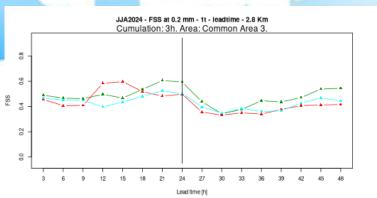


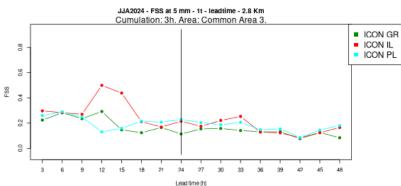


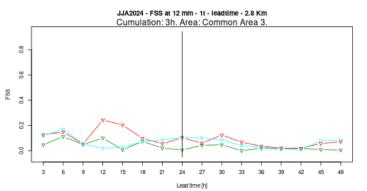


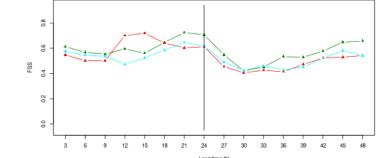


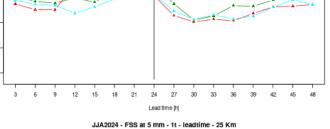
FSS (JJA2024) – Common Area 3





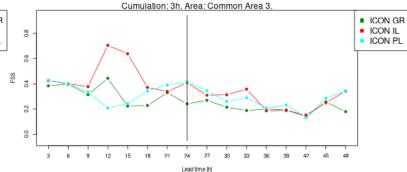


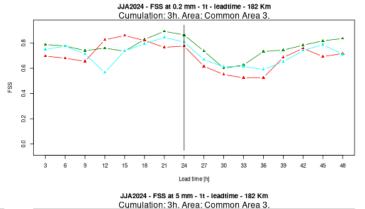


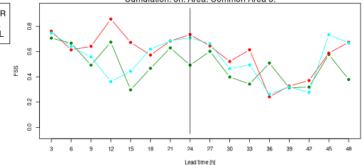


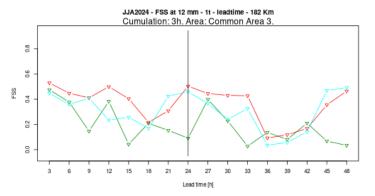
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 25 Km

Cumulation: 3h. Area: Common Area 3

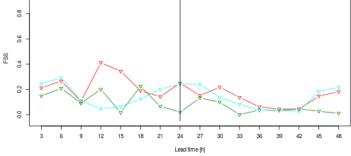








JJA2024 - FSS at 12 mm - 1t - leadtime - 25 Km Cumulation: 3h. Area: Common Area 3





FSS (SON2024) – Common Area 3

45

42 45

45

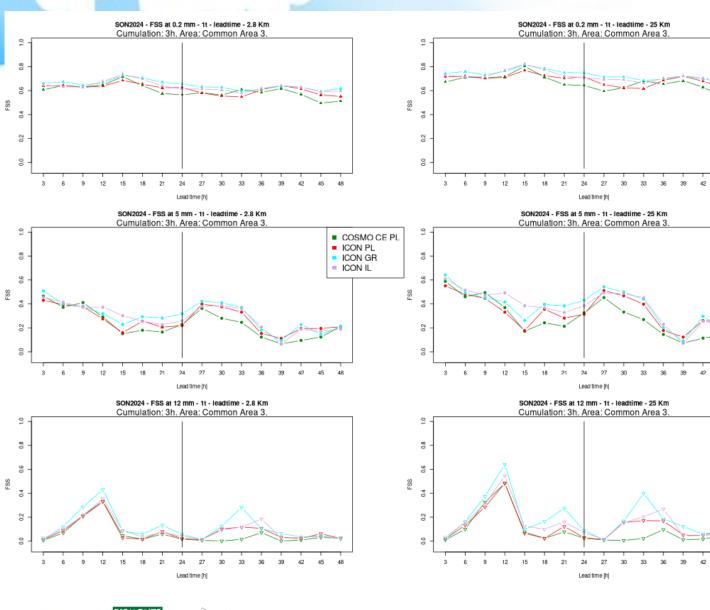
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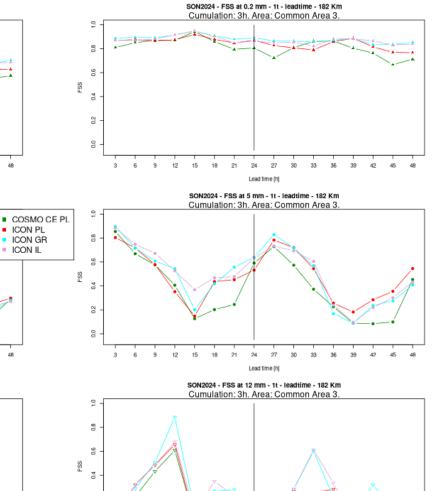
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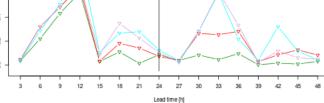
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2 5







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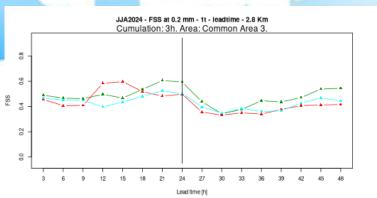
THANK YOU FOR YOUR ATTENTION!

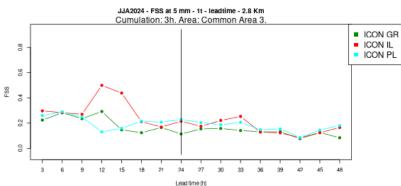
Please send all your comments and questions to: naima.vela@arpa.piemonte.it

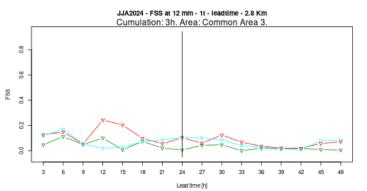


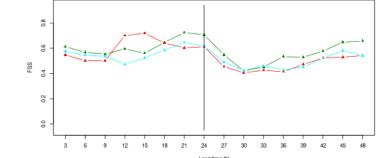


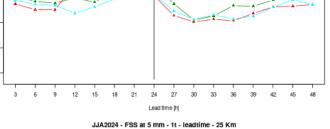
FSS (JJA2024) – Common Area 3





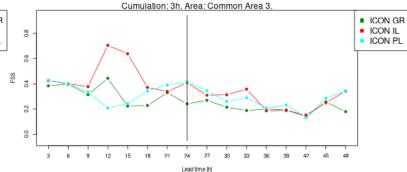


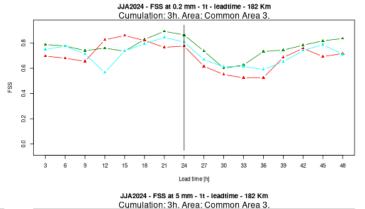


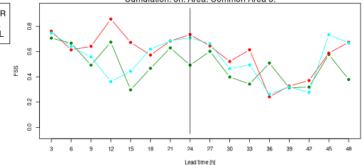


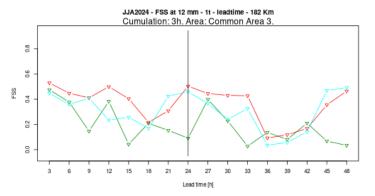
JJA2024 - FSS at 0.2 mm - 1t - leadtime - 25 Km

Cumulation: 3h. Area: Common Area 3

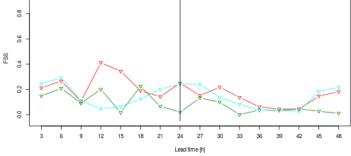






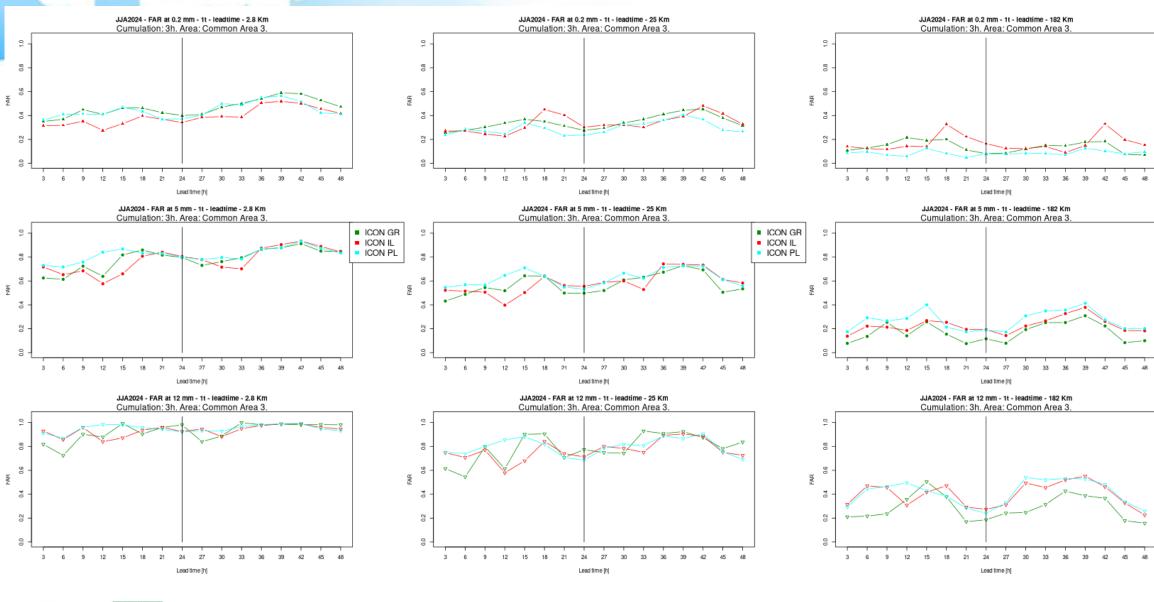


JJA2024 - FSS at 12 mm - 1t - leadtime - 25 Km Cumulation: 3h. Area: Common Area 3





FAR (JJA2024) – Common Area 3



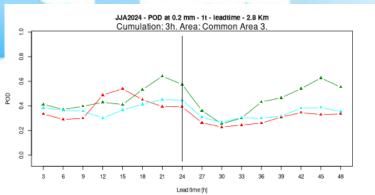


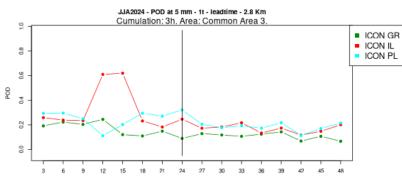
dell'Ambiente

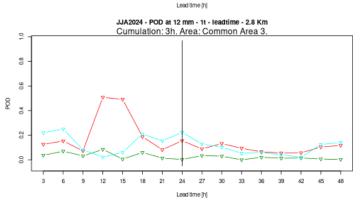
January the 21st 2025

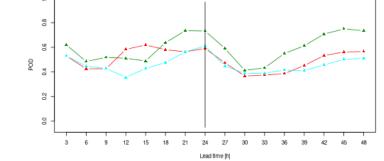
JJA2024 - POD at 0.2 mm - 1t - leadtime - 25 Km

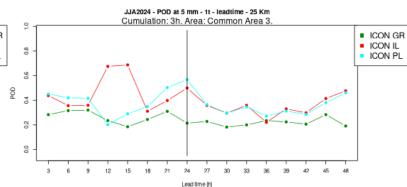
Cumulation: 3h. Area: Common Area 3











JJA2024 - POD at 12 mm - 1t - leadtime - 25 Km

Cumulation: 3h. Area: Common Area 3

0.8

0.6

3

0.2

9

3 6

9 12 15

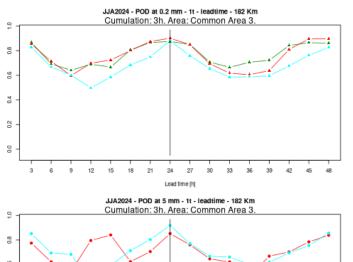
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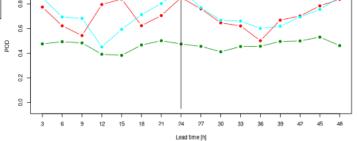
Lead time [h]

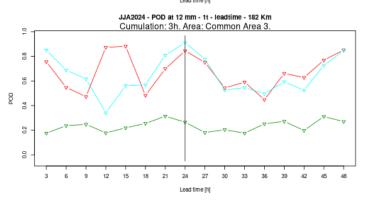
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<u>6</u>



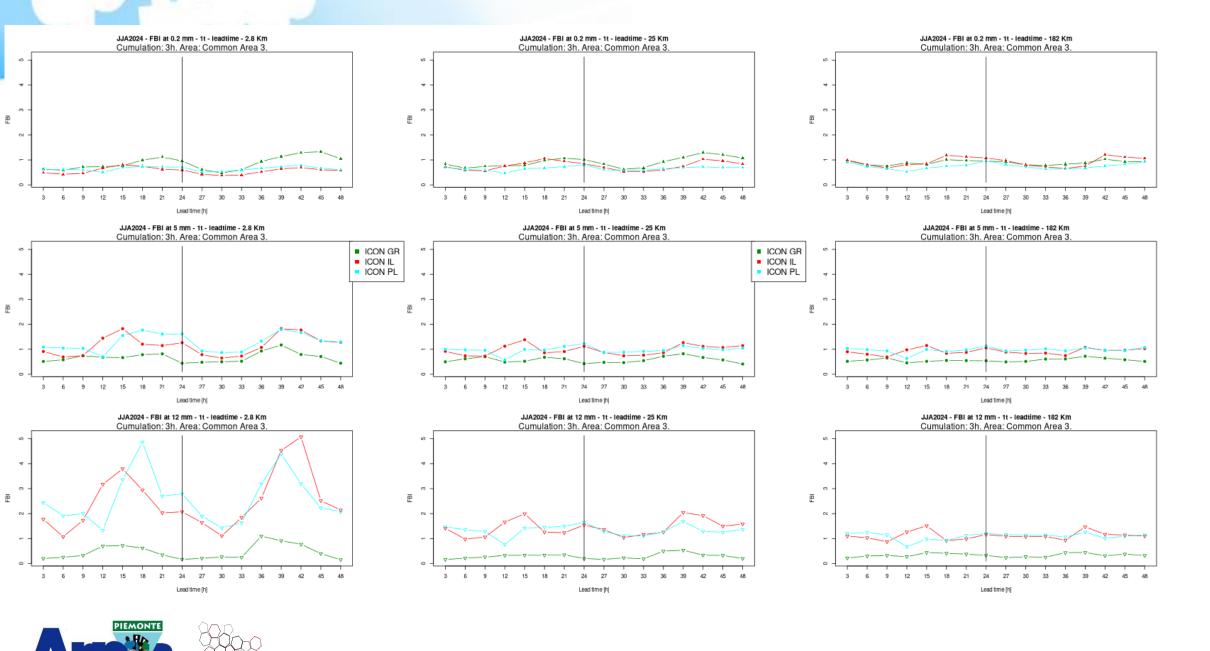
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FBI (JJA2024) – Common Area 3



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dell'Ambiente

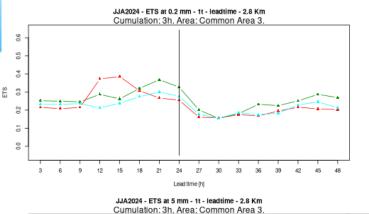
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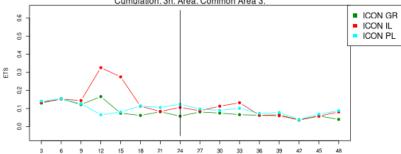
Agenzia Regionale

per la Protezione Ambientale

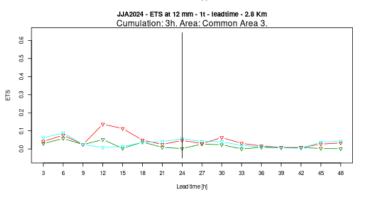
January the 21st 2025

ETS (JJA2024) – Common Area 3





Lead time [h]

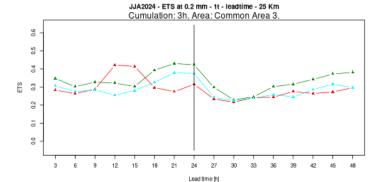


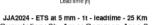


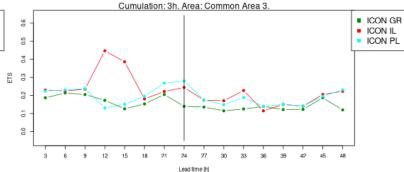
per la Protezione Ambientale

istema Nazionale per la Protezione

dell'Ambiente







JJA2024 - ETS at 12 mm - 1t - leadtime - 25 Km

Cumulation: 3h. Area: Common Area 3

90

0.5

5

0.2

0.1 9

> 3 6 9

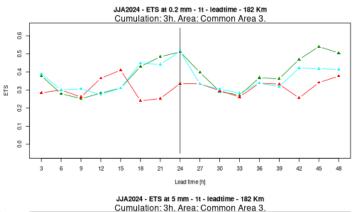
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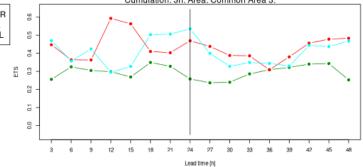
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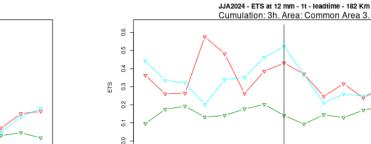
24 27 30 33 36 39 42 45

Lead time [h]

ETS 0.3







48

Cumulation: 3h. Area: Common Area 3

