



Eye-On-Site

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# What is Eye-On-Site?



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**EYE-ON-SITE**

1.04	1.02
0.7	0.17

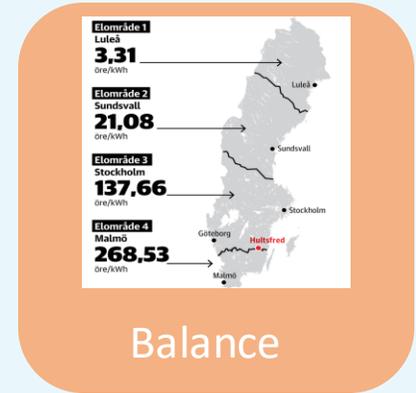


ML + Optical sensors gives high performance ice surveillance

Ice detection and short-term forecasting



24-36 h ice forecast



Realtime surveillance of ice conditions



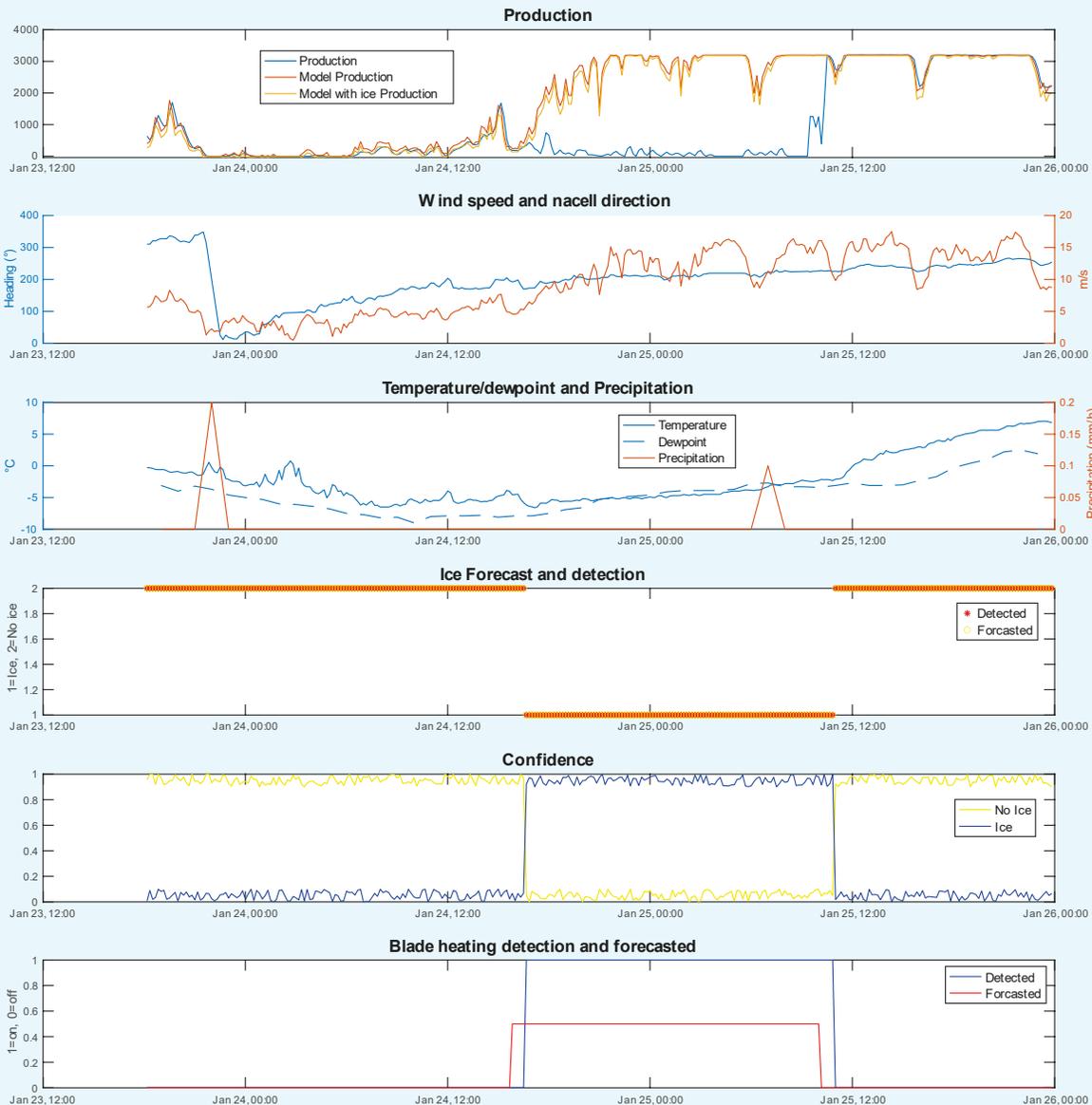
# So how is it going?

- We have collected a lot of data our systems have been up since the beginning of 2021
- Totally around 200.000 images
  - Learnt a lot about ice
  - Hurricane winds are not to play with

# Experiences from this winter

- The detection of ice and snow works very good
- A GUI is developed
- Here are three examples connected to our three focus areas:

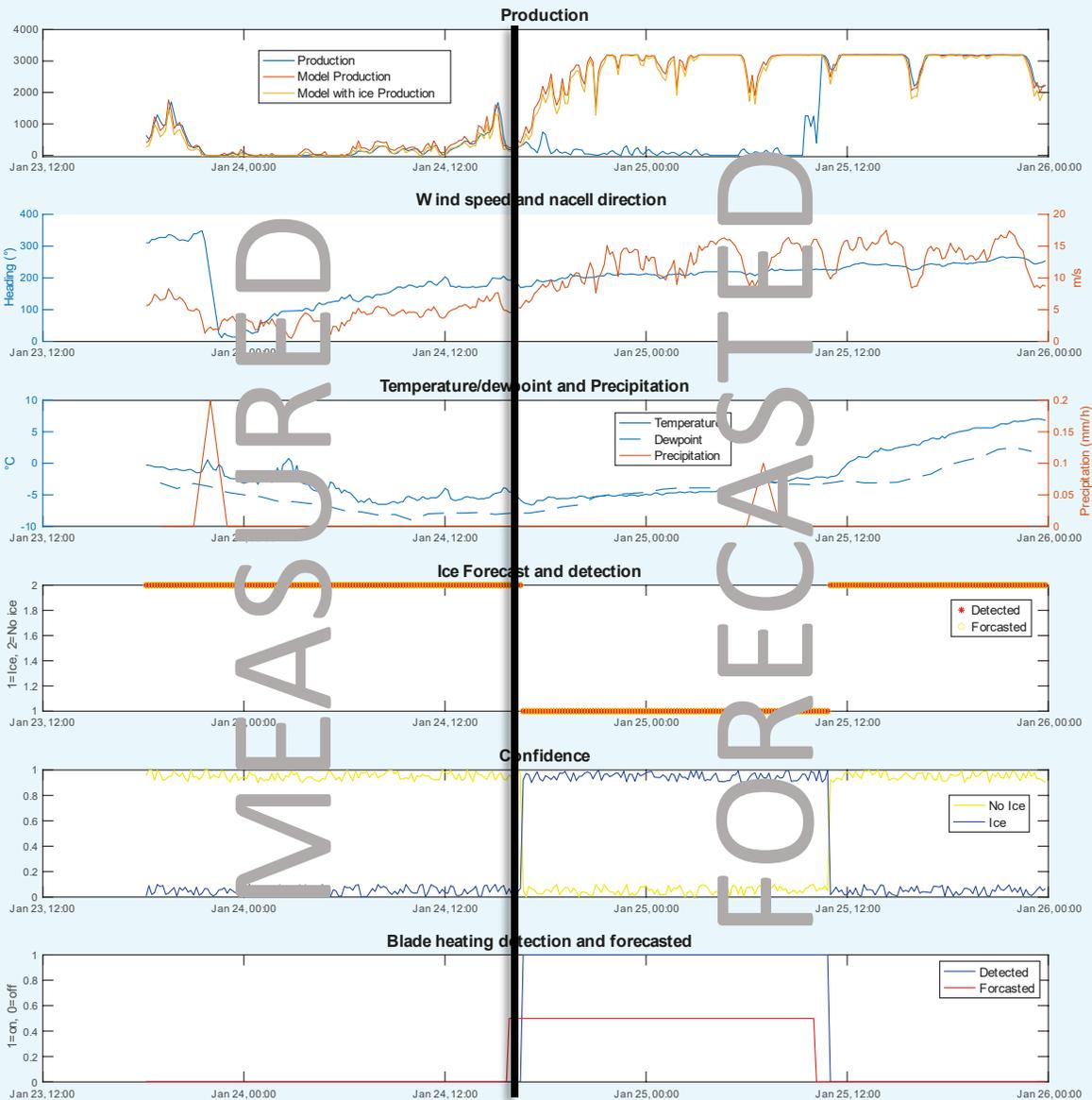
# Our new GUI



Date	Ice detected Type*	Ice throw risk	36 h forecast
2025-01-16 17:40	4	High	2
2025-01-16 17:30	3	Medium	2
2025-01-16 17:20	2	Medium	2
2025-01-16 17:10	0	No risk	0

\*Ice type 0=No ice, 1=Frost, 2=Thin build-up, 3=Medium build-up, 4=Thick build-up

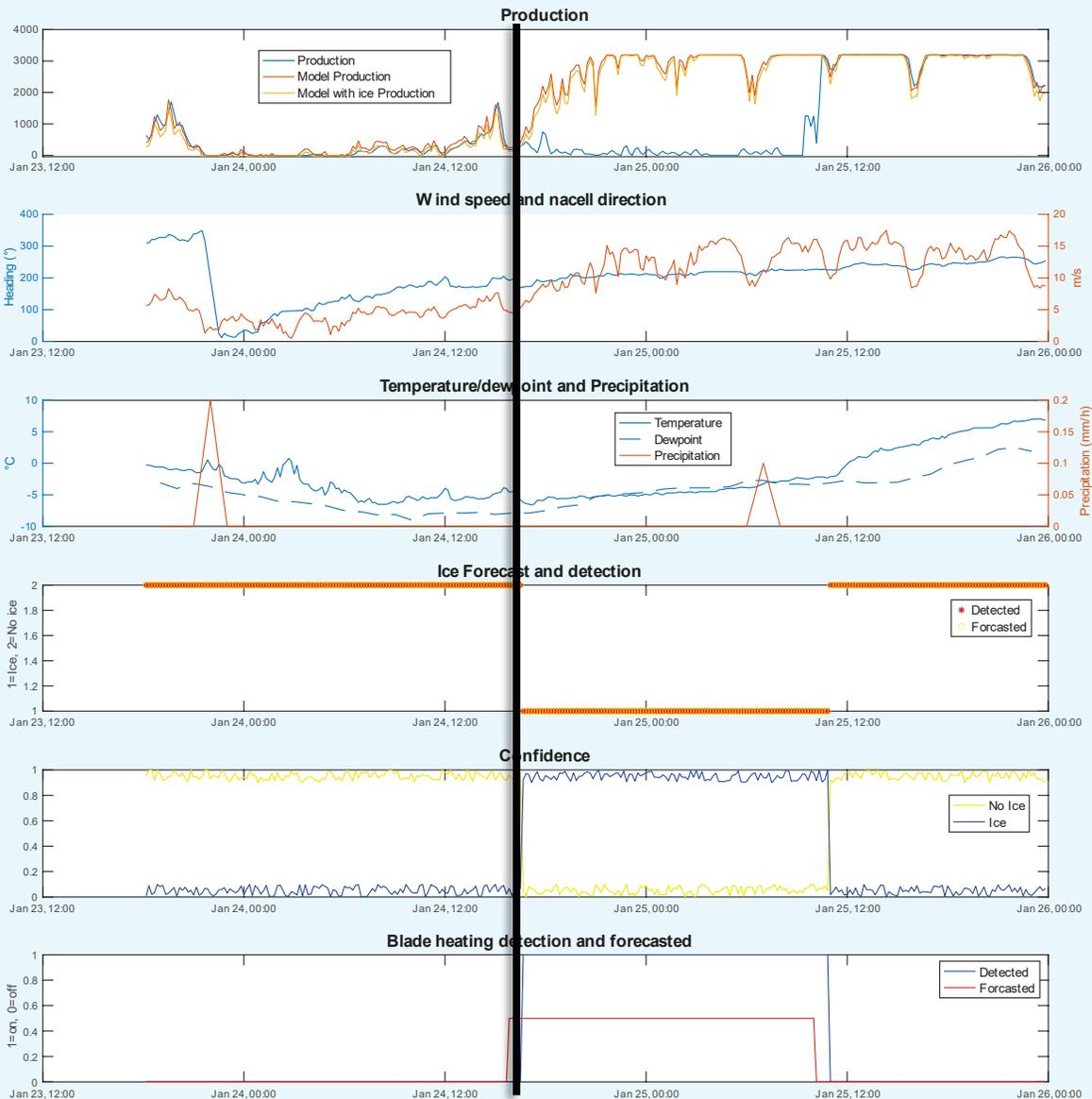
# Example GUI



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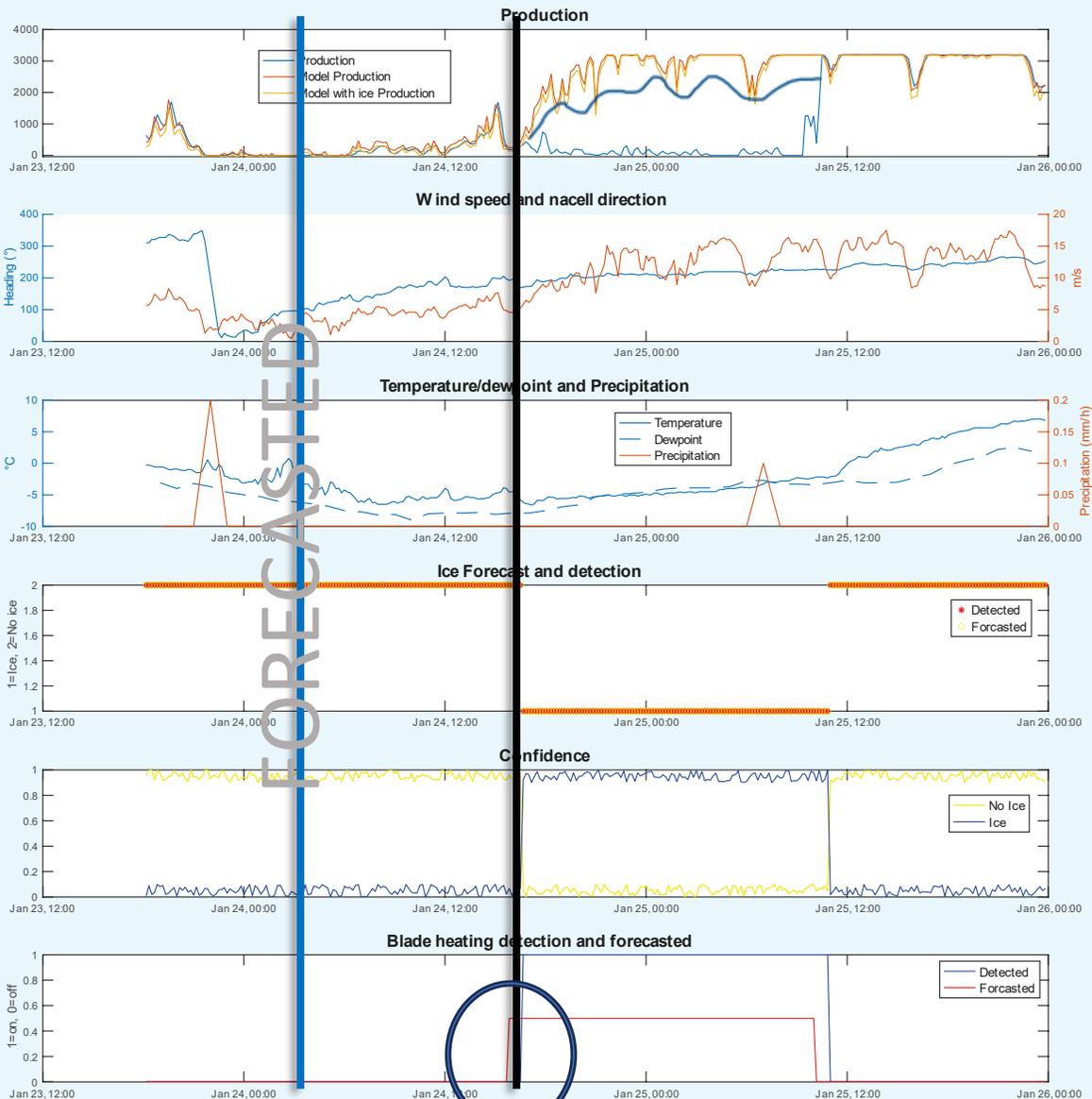
# Example Anti icing/De-icing



Date	Ice detected Type*	Ice throw risk	36 h forecast
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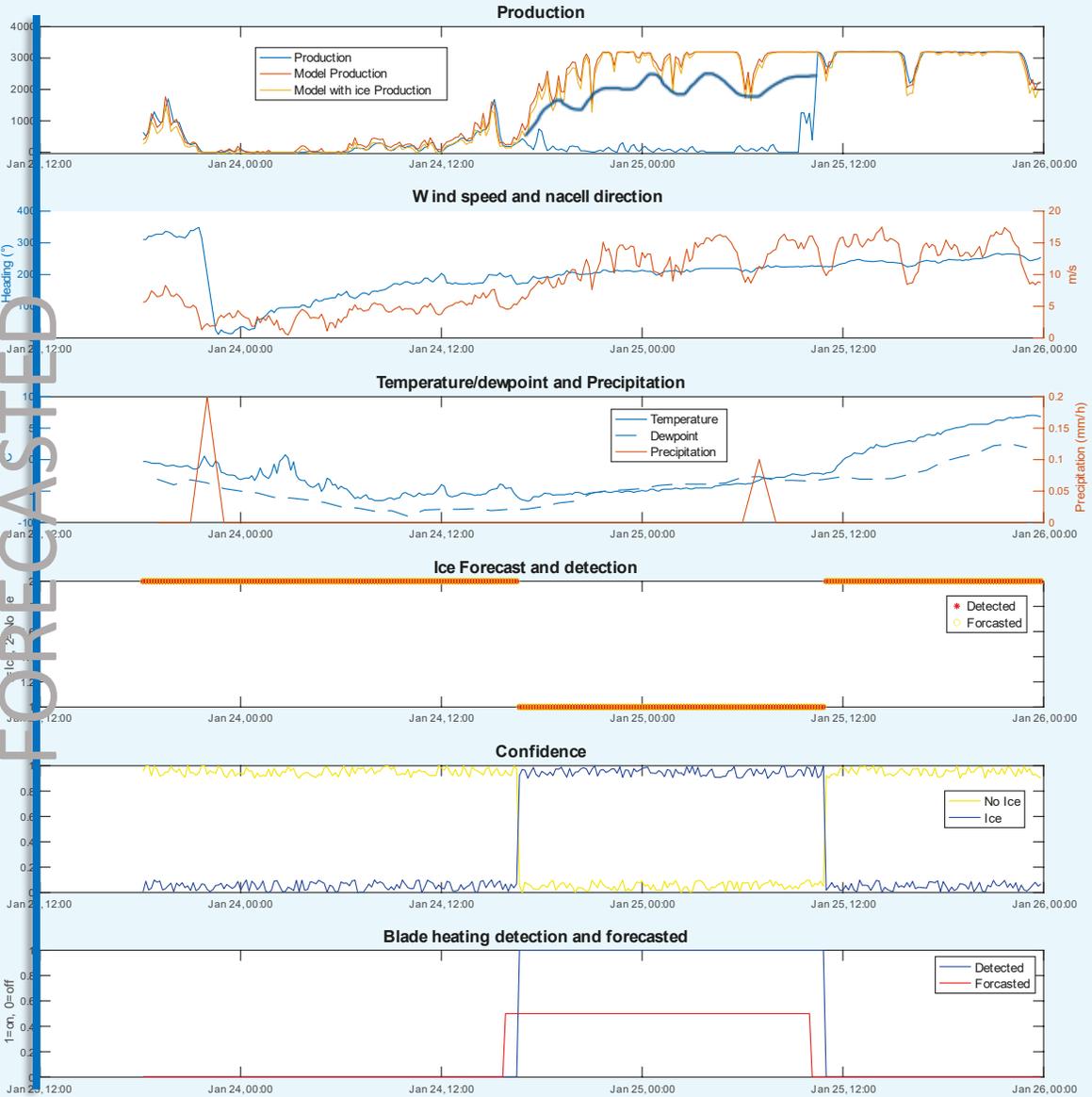
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# Example Balance

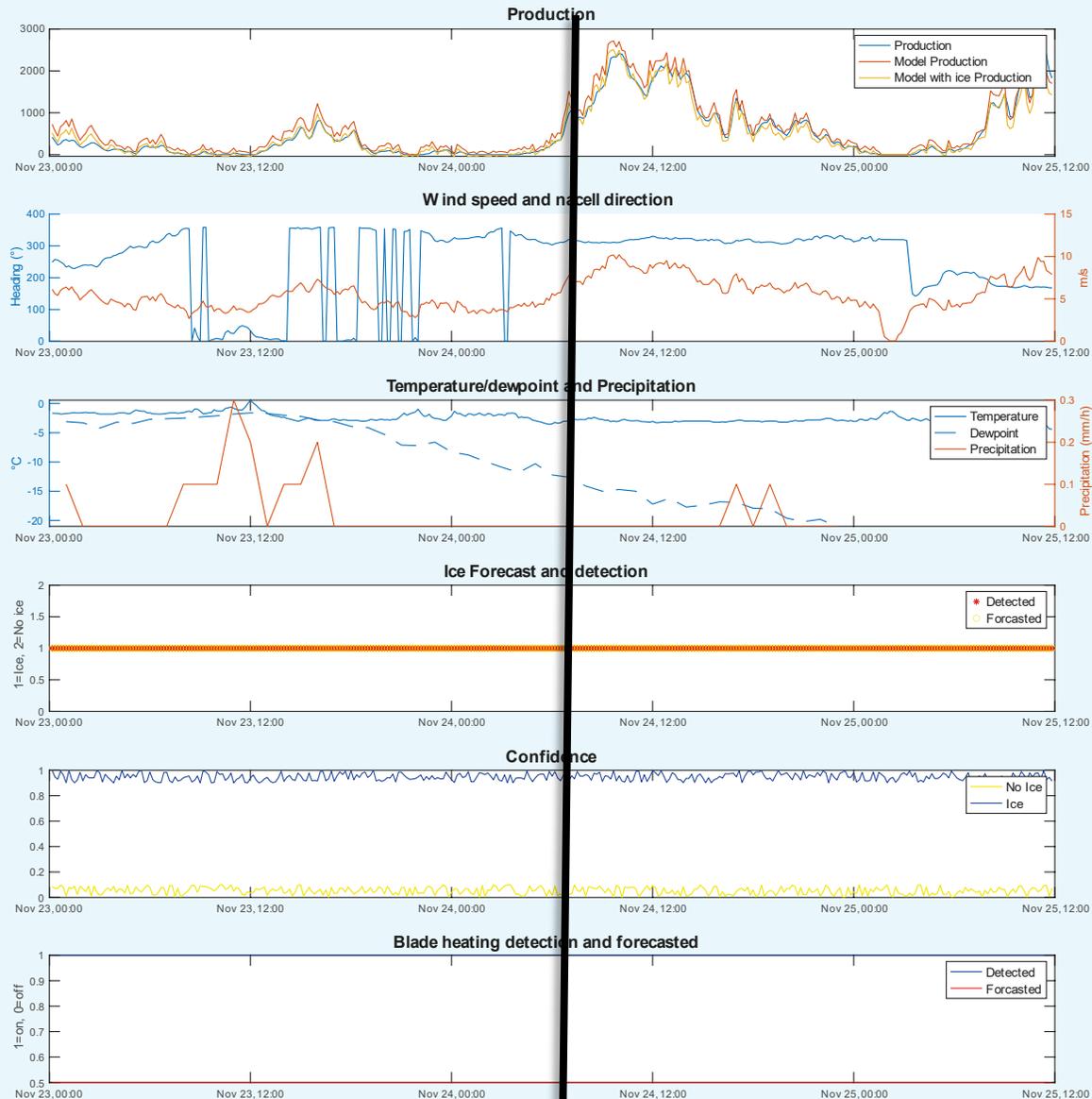


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FORECASTED

# Example Health and Safety



Date	Ice detected Type*	Ice throw risk	36 h forecast
2025-11-24 06:00	4	High	4
2025-11-24 05:50	3	Medium	3
2025-11-24 05:40	2	Medium	2
2025-11-24 05:30	2	Medium	2

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# Some numbers:



- The detection accuracy for different wind power plant at different sites is 95% (18 000)
  - The accuracy of the ice forecast is:
    - 1 h 94%
    - 24 h 93%
    - 36 h 92%
- (for 1344 number of observations)

# Summary

- The numbers for detection and forecasting are looking good
- Getting the right type of data is important
- The development of GUI to present our results is ongoing and the next step is to include the experiences from daily users
- What are the benefits in numbers... stay tuned



For technical questions and offer:

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