

It may also be useful to review FlySafe altitude profiles created using Den Helder radar because autumnal migration tends to occur on successive nights.

Is FlySafe predicting a migration peak (yellow/red) within 48-72 hours?

YES

NO (green)

Is 24-72 hour weather forecast favorable for migration?

YES

NO

Definitely shutdown

Maybe shutdown*

Is 24-72 hour weather forecast favorable for migration?

YES

NO

Maybe shutdown*

No

*We need to be aware of the date and how many of the 10 shutdown experiments have already been carried out. Sampling period is Tuesday 11 September to Thursday 15 November, with most peaks expected in October. Ideal shutdown window is 00:00-08:00.

Favorable weather forecast for migration:

- Netherlands: storms, strong head/crosswinds or fog/low visibility may cause birds to fly at turbine altitudes (130-200m) or even land in Eemshaven
- Southern Scandinavia:
 - light winds <8m/s, no/light rain and no storms
 - Winds from the northeast
 - western edge of low pressure systems
 - eastern edge of high pressure areas

Unfavorable weather forecast for migration:

- Netherlands: clear weather and calm winds expected to cause birds to fly over at high altitudes
- Southern Scandinavia:
 - Moderate to strong winds > 14 m/s, rain, gales and storms
 - eastern edge of low pressure systems
 - western edge of high pressure areas

Notes: Migration can be particularly intense on nights following successive days/nights with unsupportive weather conditions. In past seasons, mass migration occurred over 4-5 days between 17 Sept and 30 Oct. Waterbirds may fly through rain, but songbirds would probably avoid.



