

New Procedures for Publication of Bird Warnings and Forecasts

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During the 17th MAS (AIR) Flight Safety Meeting The Netherlands have been appointed to draw up a STANAG - draft "Birdstrike-Risk, Warning Procedure". In German Air Force the following planning exists:

1. The longterm bird movement forecasts published weekly or monthly till today are replaced by a corresponding operating instruction named "Judgement of long-term birdstrike-risk". This instruction will be subdivided into the following sections:
 - Monthly reviews about bird movements without regard of weather but regarding average intensities, flight directions, flight heights, day-course of bird migration, bird species and migration areas.
 - Influence of parameters inducing - favouring/prohibiting - movements for the following periods :
 - year ---
 - february 16th until may 15th ---
 - may 16th until august 15th ---
 - august 16th until november 15th ---
 - november 16th until february 15th ---
 - Annual course of bird activities above 1000 ft(GND).
 - Monthly day-course of bird activities regarding day-, night- and dawn-phases.
 - Survey about the most important phenological data for birdstrike-risk below 1000 ft(GND).
 - Monthly maps of birdstrike-risk regarding climatological/meteorological data with special informations about intensities, directions, leading lines, narrow-front migration and areas with high quantities of birds.

This operating instruction will have appx. 60 pages; it will be published in 1980 and sent to all meteorological offices of German Air Force. The old form of longterm movement forecast will be stopped with december 31rst, 1979.

2. The birdstrike-risk-forecast , at the moment published daily, now is published by a separate information since september 3rd , 1979 from monday until friday within a special transmitting series with the head-line FXDL 90 EDZX YY0400. The validity of this forecast is from the day of publication, 05.00 Z, until the following day, 00.50 Z;

Amend-ments are possible and have to be transmitted with priority "JJ". If necessary this risk-forecast can include a medium-term amendment up to 3 days.

The risk-forecast includes the following indications:

- Intensity/frequency of bird movements using the terms : light, moderate, severe, isolated, located and frequent.
- Areas as "over hills", "coast", "sea" or special geophysical advisory districts, named A 1 ,A 2, A 3, A 4.
- Flight heights as "up to..... ft(GND)" or "between..... ft(GND) and ft(GND) , but only heights with the highest risks.
- Dependency of the birdstrike-risk on weather.
- Indication of bird species (only larger birds) in case the risk is induced by those birds.

During weekend and before special holidays birdstrike-risk-forecast is published by the biological staff of German Military Geophysical Office on the last working day.

If necessary the forecast includes many meteorological alternatives which are selected by the meteorologist on duty

Moreover on thursdays this riskform is completed as appendix by a weekly outlook. The contents of this weekly forecast are based on the forecasted weather in the four special geophysical advisory districts A 1 - A 4 and the German Bight. They show the following indications:

- Intensities and bird species --
- Flight heights of birds --
- Day-course of migration --
- Phenological data --
- Other important remarks --

As a basis for these weekly forecasts serve:

- List "weather influence on bird migration" --
- Official longterm weather forecast --
- Monthly review about bird migration --
- Diagrams about day-course of bird-migration --
- Survey about phenological phases --

3. The hitherto existing birdtam procedure should not be changed at the moment. Only the exchange of warnings/informations with radar stations in Denmark, The Netherlands and Belgium will be improved.

For the Central meteorological office of the German Military Geophysical Service the biological staff publishes daily birdtam guidances on the basis of the forecasted weather, if necessary differentiated regional. This guidance includes:

- General review about bird migration situation.
- Maximum flights heights of birds.
- Validity of birdtam.
- Remarks(f.i.expansion of the forecast-area).

As basis for these works serve :

- Bird warning messages or birdtam of the last 24 hours.
- Actual weather forecasts.
- List about weather influences in bird migration.
- Monthly reviews about bird migration.

By this method it has been secured that birdtam can be published, if necessary, at every time.

In case the new form of birdstrike-risk-forecast proves good suc-
cesse it is intended later on to discuss whether it can get a
higher obligation. Than, at the same time birdtam would be published
only at intensities between 6 and 8 and only on the basis of radar
observations.