

**Twenty-Sixth Meeting of the Cross Polar Trans East Air Traffic Management Providers'
Work Group (CPWG/26)**

(Vancouver, Canada October 30-November 1, 2018)

Agenda Item 6: Status on CPWG/25 Actions

Andoya Rocket Launch

(Action Item 20-01)

(Presented by Isavia)

SUMMARY

This paper presents information on intended launch activities around Andoya and Svalbard in Norway and impact on BIRD CTA airspace.

1 Introduction

1.1. Andoya Space Center (ASC) has announced new project that includes 12 rocket campaigns over the next few years, starting with a big campaign in December 2018 with the launch of 4 rockets.

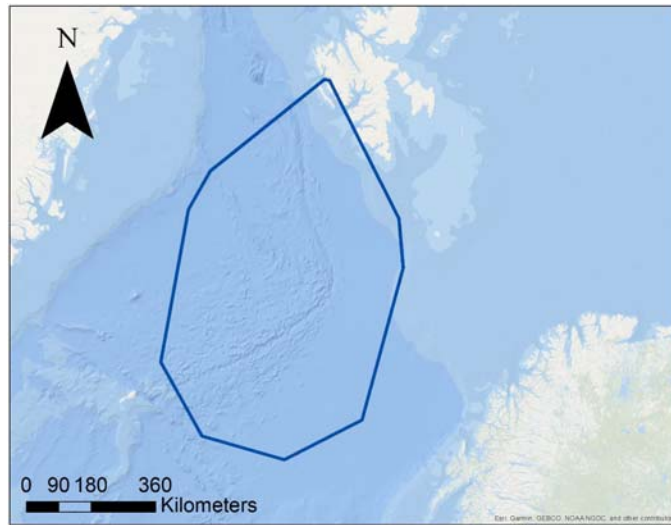
2 Discussion

2.1. The first launch will take place in the period of 4th – 18th of December in the time period 08:00 – 12:00 when two Black Brant X will be launched from Svalbard.

Positions: Lat-Lon DDMSS.S

Coordinate Number	Lat	Lon
1	785830.6N	0113010.5E
2	765119.2N	0030626.4W
3	755047.4N	0050922.4W
4	715812.0N	0061633.5W
5	701243.8N	0023951.8W
6	693625.8N	0031640.9E
7	702244.4N	0091301.5E
8	735301.8N	0150751.9E
9	750621.0N	0155927.5E
10	785509.6N	0120829.1E
11	785830.6N	0113010.5E

2.2. The Black Brant X will impact BIRD CTA during the launch time period and is shown on the figure below:



2.3. The second launch will take place in the period of 5th – 19th of December 2018, when two black brant XII will be launched in the time period 07:00 – 11:00 UTC and impact two hazard areas during that time.

Trice indre (stage 3):

Positions: Lat-Lon DDMMSS.S

Coordinate	Lat	Lon
Nominal impact	740741.0N	0154029.6E
Radius	81 Nm // 150 Km	

Trice ytre (stage 4):

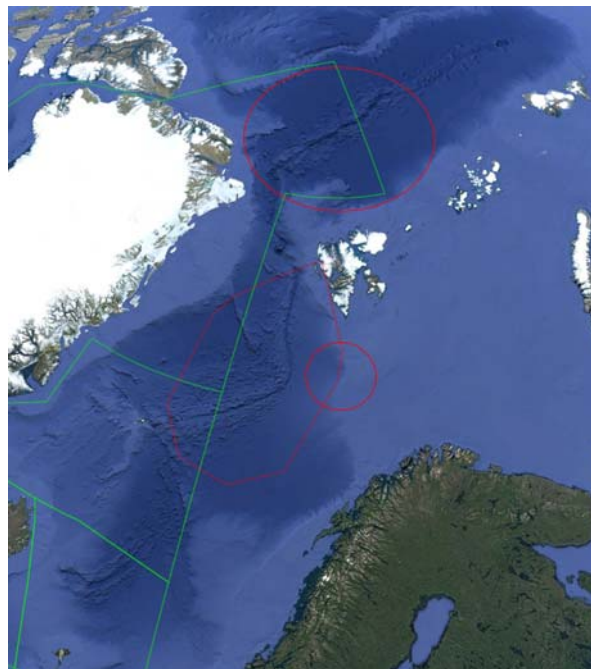
Positions: Lat-Lon DDMMSS.S

Coordinate	Lat	Lon
Nominal impact	852818.2N	0173400.1E
Radius	248.4 Nm // 460 Km	

2.4. One of the Black Brant XII hazard areas (Trice ytre) will impact BIRD CTA during the launch time period. See Black Brant XII areas below:



2.5. In the picture below, all Black Brant areas can be seen with FIR boundaries.



2.6. An application of approval has been sent to Icelandic Transport Authorities. When approval is granted, a NOTAM will be issued for the affected areas for the requested time periods. The NOTAMs will be deactivated as soon as the operation for the specific danger area has ended.

2.7. A draft Letter of Agreement has been signed between Andoya Space Center and Isavia stating the procedures for coordination between the two parties.

2.8. Seven days before expected launch, ASC shall inform all air traffic information services involved about the intention to launch. Information shall contain applicable danger areas, rocket trajectories and any other relevant information of the planned operation.

2.9. 24 hours before a planned launch, Bodö CTR shall inform about the intention to launch. At least one hour before launch, Bodö CTR shall contact Reykjavik ACC to inform about the intention to launch for the specified danger areas. After a launch, Bodö CTR shall, as soon as possible, after the impact of all debris, inform Reykjavik ACC.

3 Recommendation

3.1. The Meeting is invited to note the information provided in this paper.