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# DARcorporation News

January 2019

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## [International Team, NASA use IceBridge Data to Make Unexpected Discovery Under Greenland Ice](#)

An international group of researchers led by the University of Copenhagen's Center for GeoGenetics at the Natural History Museum of Denmark has discovered a meteorite impact crater under the Greenland ice sheets using data provided by NASA's Operation IceBridge program. This crater, the first to be found under the Greenland ice, was discovered by the researchers in November 2018 after working for three years to verify their initial discovery which was made in 2015.

DARcorporation engineers were instrumental in the analysis and construction of the radar instruments used by Operation IceBridge. These radars, operated by the University of Kansas' Center for Remote Sensing of Ice Sheets (CRISIS) fly on the IceBridge P-3B and DC-8 airborne laboratories.

DARcorporation actively participated in the P-3B and DC-8 radar programs by performing CAD design, aerodynamic trade studies, static and dynamic structural trade studies, fabrication and installation. Flow characteristics in the vicinity of the installations were analyzed to investigate the implications of the installations on aircraft aerodynamics, range and endurance. The attached structure was also sized by DARcorporation engineers to not only survive the extreme load conditions dictated by the extreme Greenland weather, but also to not introduce unacceptable additional loads to the aircraft structure.

Visit our [website](#) for more information or [contact us](#) if you have a project in mind.

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## New Aircraft CAD File Formats Available at our Online Store



Three new CAD formats have been added to our online store for aircraft CAD models: .3ds, .model and .sat. CAD models are 3D solids and are available in the following file formats:

- .3ds
- .dwg
- .prt
- .igs
- .model (CATIA)
- .x\_t (parasolid)
- .sat (ACIS)
- .stp
- .stl

If you have already bought an aircraft CAD model you can redownload the zip file and you will receive the extra file formats. Visit our [Online Store](#) for CAD models and other items sold by DARcorporation.

Disclaimer: All models are based on publicly available data. DARcorporation cannot guarantee the accuracy of these models due to limited information.

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## DARcorporation is Moving to a New Location!

Due to our remarkable growth in recent years, DARcorporation is proud to announce that the business will be moving to a new location within the Lawrence area. This new space is more than twice the size of our current location and will allow us to better serve

our customers and will give us the opportunity to expand our capabilities. More information will be delivered in the coming weeks.



**New Webinar on History of Airplane Design**

March 13, 2019  
11:00 AM - 12:00 PM CT US

**Instructor:** [Dr. Jan Roskam](#)

**Description:** Dr. Jan Roskam continues the informative History of Airplane Design webinar series, focusing on specific companies and their contributions to the commercial, military and transport aircraft industries. Companies include De Havilland and Douglas. This is a free webinar and is presented live and will not be available after the webinar.

[Register](#)



April 30 - May 2, 2019  
McCormick Place Convention Center, Chicago

**Exhibit Hall Booth:** [#622](#) (On the right hand side, just South of the Main Aisle)

We will be featuring our Propeller, Ducted Fan & UAV/Drone Design Services at our XPONENTIAL 2019 booth. Come visit us and talk about UAV propeller, helicopter rotor and tiltwing/tiltrotor proprotor design, impact of propellers on UAV performance or UAVs in general.



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