



**CINEMATIC SCIENCE HELPS  
RESEARCHERS EXPLORE DATA FROM  
NASA'S CAMP<sup>2</sup>Ex FIELD CAMPAIGN**



1  
00:00:00,000 --> 00:00:01,266  
[MUSIC]

2  
00:00:01,266 --> 00:00:09,599  
IN 2019, NASA AND PARTNERS EMBARKED ON A 2-MONTH LONG FIELD EXPEDITION TO STUDY HOW

3  
00:00:09,600 --> 00:00:14,665  
DURING THAT TIME, THE TEAM COLLECTED TENS OF THOUSANDS OF RAW DATA FILES FROM AIR, S

4  
00:00:14,666 --> 00:00:17,330  
BUT ONCE THE FIELD WORK WRAPPED, A NEW CHALLENGE EMERGED.

5  
00:00:17,331 --> 00:00:21,800  
HOW BEST TO COMPILE AND COMMUNICATE THE DATA COLLECTED?

6  
00:00:23,333 --> 00:00:29,502  
IN COLLABORATION WITH THE ADVANCED VISUALIZATION LAB AT THE UNIVERSITY OF ILLINOIS UR

7  
00:00:29,698 --> 00:00:34,463  
THE FIRST DASHBOARD TO INTEGRATE SUCH A DYNAMIC ARRAY OF DATA SOURCES FOR A NASA F

8  
00:00:34,464 --> 00:00:39,733  
THE DASHBOARD VISUALIZES WHERE DATA POINTS APPEARED IN THE RECORD:

9  
00:00:39,931 --> 00:00:47,035  
WHETHER IT BE THE LOCATIONS OF DATA COLLECTION,

10  
00:00:48,232 --> 00:00:55,503  
ICE CRYSTAL SIZE AND SHAPE,

11  
00:00:56,032 --> 00:01:02,502  
CONDITIONS OUTSIDE OF THE AIRCRAFT,

12  
00:01:02,831 --> 00:01:12,071  
OR MEASUREMENTS FROM A MULTITUDE OF INSTRUMENTS.

13  
00:01:12,698 --> 00:01:18,501

IN TOTAL, THE TEAM COMPILED 76 DIFFERENT DATA VARIABLES.

14

00:01:18,796 --> 00:01:26,067

AND PIONEERED A NEW WAY TO SHARE NASA SCIENCE WITH RESEARCHERS AROUND THE GLOBE