

## Other: Airtec BT-67 12/04/17 - 12/05/17 Science Report

### Aircraft:

Other: Airtec BT-67 - 18M008

### Date:

Monday, December 4, 2017 - Tuesday, December 5, 2017

### Mission Location:

David A

### Mission Summary:

Mission: David A

Today we flew the high priority David A mission. This mission is designed to re-fly ICECAP flightlines over the David Glacier and Drygalski Ice Tongue. We also extend two lines east into the plateau to collect depth-sounder data over several subglacial lakes.

Our run of great weather seemed to run out today, as we encountered low ceilings when we arrived on the glacier. Even so, we were able to fly a majority of the coverage, including the subglacial lakes, before having to turn back to McMurdo.

Aside from the low ceilings, flight conditions were generally good, with light winds, negligible turbulence and temps of -8 C.

### Images:

- 1) Map of flights so far this campaign, with today's flight in red
- 2) Crevasses on upper David Glacier
- 3) Drygalski Ice Tongue edge
- 4) Clouds over the Drygalski
- 5) Sea ice in McMurdo Sound
- 6) DC-3 and LC-130 sharing the fuel pits at Wiley Field

### Images:

#### Map of flights so far this campaign, with today's flight in red



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#### Crevasses on upper David Glacier



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#### Drygalski Ice Tongue edge



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#### Clouds over the Drygalski



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## Sea ice in McMurdo Sound



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## DC-3 and LC-130 sharing the fuel pits at Wiley Field



[Read more](#)

### Submitted by:

Joseph MacGregor on 12/05/17

### Related Flight Report:

## Other: Airtec BT-67 12/04/17 - 12/05/17

### Flight Number:

OIB-Basler Science Flight #8

### Payload Configuration:

OIB Basler Antarctica 17

### Nav Data Collected:

No

### Total Flight Time:

4.5 hours

### Submitted by:

Joseph MacGregor on 12/05/17

### Flight Segments:

<b>From:</b>	NZWD	<b>To:</b>	NZWD
<b>Start:</b>	12/04/17 22:46 Z	<b>Finish:</b>	12/05/17 03:13 Z
<b>Flight Time:</b>	4.5 hours		
<b>Log Number:</b>	<a href="#">18M008</a>	<b>PI:</b>	Nathan Kurtz
<b>Funding Source:</b>	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Mission: David A Today we flew the high priority David A mission. This mission is designed to refly ICECAP flightlines over the David Glacier and Drygalski Ice Tongue. We also extend two lines east into the plateau to collect depth-sounder data over several subglacial lakes. Our run of great weather seemed to run out today, as we encountered low ceilings when we arrived on the glacier. Even so, we were able to fly a majority of the coverage, including the subglacial lakes, before having to turn back to McMurdo. Aside from the low ceilings, flight conditions were generally good, with light winds, negligible turbulence and temps of -8 C.		

**Flight Hour Summary:**

	<b>18M008</b>
<b>Flight Hours Approved in SOFRS</b>	180
<b>Total Used</b>	217
<b>Total Remaining</b>	-37

**18M008 Flight Reports**

<b>Date</b>	<b>Flt #</b>	<b>Purpose of Flight</b>	<b>Duration</b>	<b>Running Total</b>	<b>Hours Remaining</b>	<b>Miles Flown</b>
<a href="#">11/11/17 - 11/12/17</a>	OIB-Transit leg #1b	Transit	6.3	6.3	173.7	
<a href="#">11/12/17</a>	OIB-Transit leg #2	Transit	4.6	10.9	169.1	
<a href="#">11/12/17 - 11/13/17</a>	OIB-Transit leg #2	Transit	6.2	17.1	162.9	
<a href="#">11/13/17</a>	OIB-Transit leg #4	Transit	7	24.1	155.9	
<a href="#">11/13/17</a>	OIB-Transit leg #4	Transit	3.4	27.5	152.5	
<a href="#">11/13/17</a>	OIB-Transit leg #4	Transit	7	34.5	145.5	
<a href="#">11/16/17</a>	OIB-Transit leg #4	Transit	4.8	39.3	140.7	
<a href="#">11/17/17</a>	OIB-Transit leg #5	Transit	7.6	46.9	133.1	
<a href="#">11/17/17 - 11/18/17</a>	OIB-Transit leg #5	Transit	4.2	51.1	128.9	
<a href="#">11/21/17</a>	Ski test flight	Check	1.8	52.9	127.1	
<a href="#">11/26/17 - 11/27/17</a>	OIB-Basler Test Flight	Check	2.9	55.8	124.2	
<a href="#">11/27/17</a>	OIB-Basler Mx Flight	Maintenance	0.8	56.6	123.4	
<a href="#">11/27/17</a>	Chips Lt L/H engine	Check	0.3	56.9	123.1	
<a href="#">11/28/17 - 11/29/17</a>	OIB-Basler Science Flight #1	Science	6.3	63.2	116.8	
<a href="#">11/30/17 - 12/01/17</a>	OIB-Basler Science Flight #2	Science	7.5	70.7	109.3	
<a href="#">12/01/17 - 12/02/17</a>	OIB-Basler Science Flight #3	Science	8	78.7	101.3	
<a href="#">12/02/17</a>	OIB-Basler Science Flight #4	Science	6.3	85	95	
<a href="#">12/02/17 - 12/03/17</a>	OIB-Basler Science Flight #5	Science	6.5	91.5	88.5	
<a href="#">12/03/17 - 12/04/17</a>	OIB-Basler Science Flight #6	Science	8.2	99.7	80.3	
<a href="#">12/04/17</a>	OIB-Basler Science Flight #7	Science	5.9	105.6	74.4	
<a href="#">12/04/17</a>	Ferguson training flight #1	Pilot Proficiency	0.3	105.9	74.1	

<a href="#">12/04/17 - 12/05/17</a>	OIB-Basler Science Flight #8	Science	4.5	110.4	69.6
<a href="#">12/06/17 - 12/07/17</a>	OIB-Basler Science Flight #9	Science	5.9	116.3	63.7
<a href="#">12/08/17</a>	MX test flight - oil pressure flux	Maintenance	0.8	117.1	62.9
<a href="#">12/13/17 - 12/14/17</a>	OIB-Basler Science Flight #10	Science	4.3	121.4	58.6
<a href="#">12/14/17</a>	OIB-Basler Science Flight #11	Science	7.4	128.8	51.2
<a href="#">12/14/17 - 12/15/17</a>	OIB-Basler Science Flight #12	Science	6.7	135.5	44.5
<a href="#">12/15/17</a>	OIB-Basler Science Flight #13	Science	3.4	138.9	41.1
<a href="#">12/15/17 - 12/16/17</a>	OIB-Basler Science Flight #14	Science	7.2	146.1	33.9
<a href="#">12/16/17 - 12/17/17</a>	OIB-Basler Science Flight #15	Science	5.8	151.9	28.1
<a href="#">12/17/17 - 12/18/17</a>	OIB-Basler Science Flight #16	Science	6	157.9	22.1
<a href="#">12/26/17</a>	OIB-Basler Transit North 1	Transit	4.7	162.6	17.4
<a href="#">12/26/17</a>	OIB-Basler Transit North 2	Transit	8	170.6	9.4
<a href="#">12/27/17</a>	OIB-Basler Transit North 3	Transit	5.4	176	4
<a href="#">12/28/17</a>	OIB-Basler Transit North 4	Transit	4.7	180.7	-0.7
<a href="#">12/28/17 - 12/29/17</a>	OIB-Basler Transit North 5	Transit	7.2	187.9	-7.9
<a href="#">12/28/17 - 12/29/17</a>	OIB-Basler Transit North 6	Transit	7.2	195.1	-15.1
<a href="#">12/29/17</a>	OIB-Basler Transit North 7	Transit	6.3	201.4	-21.4
<a href="#">12/30/17</a>	OIB-Basler Transit North 8	Transit	3.9	205.3	-25.3
<a href="#">12/30/17 - 12/31/17</a>	OIB-Basler Transit North 9	Transit	6.9	212.2	-32.2
<a href="#">12/31/17</a>	OIB-Basler Transit North 10	Transit	4.8	217	-37

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

NASA Official: Bruce A. Tagg

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