## FAAM data at BADC - Useful tables showing archive contents.

Data collected on board the FAAM aircraft (http://www.faam.ac.uk/) is archived and distributed through the BADC (http://badc.nerc.ac.uk/).

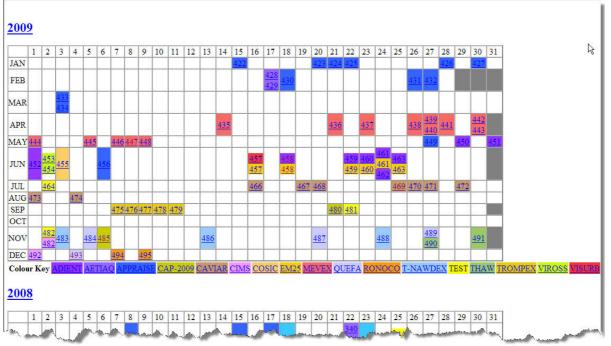
Data is collected on a campaign basis. There have been nearly 500 flights to date for 60+ campaigns. Most data is accessible publicly either immediately of after a short period of being restricted to campaign participants. There are several data streams stored for each flight with different processing methods and upload routes and lead times. The instruments operated on each flight vary according to the scientific objectives of the flight.

The following tables provide information about each flight, an overview of what data is present and links to the appropriate data archive directories. They are intended as a useful aid to access the data and are updated regularly (daily or as new files arrive).

# **Flight Schedule table**

#### http://badc.nerc.ac.uk/cgibin/data browser/data browser/badc/faam/doc/FAAM Flight Schedule.html

This is a calendar-like overview of the flights by number, colour-coded by campaign name. Each flight number links to the data archive directory for that flight. This is based on the data present in the archive.



# FAAM Archive Population table

#### http://badc.nerc.ac.uk/cgi-bin/data browser/data browser/badc/faam/doc/FAAM data catalogue.html

This table shows the data present in the archive arrange by flight number ( = date) order, most recent first. There are several data types stored for each flight and the table shows at a glance what is present for a given flight (coloured cell means data is present). The colour of the cell indicates the access restrictions applied to that data and the r# number shows the highest revision number stored. There is a full colour key on the website – briefly green = publicly available,; blue = raw data restricted to FAAM staff; orange = public upon application; red = core-processed data restricted for up to one year; yellow = non-core data - the name shows the group the data is restricted to.

There are links from the table to the flight data directory in the archive. A list of the non-core files (instrument name from the filename) can be seen by holding the mouse/cursor over the non-core (processed) data column for each flight.

					Core data											Non-core data	
Flight number	Campaign or test	Date	Flight log	Flight sum		Raw		Processed									
					Flight		Standard Cloud Physics	Standard					Cloud Physics		ysics	Raw	Processed
					constants	Standard		Data	Desc	Quality	Dropsonde	Video	Data	Desc	Images		
						20	09										
<u>b477</u>	TROMPEX	2009-sep-09		r0	r0	gps drs		r0	r0	r0							
<u>b476</u>	TROMPEX	2009-sep-08		r0	r0	drs gps		r0	r0	r0							
<u>b475</u>	TROMPEX	2009-sep-07		r0	rl	drs gps		r1	rl	rl							
<u>b474</u>	CAVIAR	2009-aug-04	r0	r0	<b>r</b> 0	drs gps	r0	r0	r0	r0	r0		.r0		rO		cavin,
<u>b473</u>	CAVIAR	2009-aug-01	r0	r0	<b>r</b> 0	drs gps	r0	r0	r0	r0	r0		r0			metoffice	-aries non-core-c
<u>b472</u>	CAVIAR	2009-jul-29	r0	r0	r0	drs gps	r0	r0	r0	r0	r0		r0		r0		caviar
<u>b471</u>	CAVIAR	2009-jul-27	r0	r0	r0	drs gps	r0	r0	r0	r0	r0	rO	r0		10		caviar
<u>b470</u>	CAVIAR	2009-jul-26	r0	r0	r0	drs gps	r0	<b>r</b> 0	rO	r0	10		.r0		rO		caviar
<u>b469</u>	CAVIAR	2009-jul-25	r0	r0	r0	drs gps	r0	r0	r0	т0	r0		r0		10		caviar
<u>b468</u>	CAVIAR	2009-jul-20	r0	r0	r0	drs gps	r0	r0		r0	r0		r0		r0		caviar
<u>b467</u>	CAVIAR	2009-jul-19	r0	r0	r0	drs gps	r0	r0	r0	r0	r0	r0			10		caviar
<u>b466</u>	CAVIAR	2009-jul-16	r0	r0	<b>r</b> 0	drs gps	r0	r0	r0	r0	r0	rO	r0				caviar
<u>b464</u>	TAFTS Test	2009-jul-02	r0	r0	r0	gps drs		r0	10	r0		rO					
<u>b463</u>	EM25/ADIENT	2009-jun-25		r0	r0	drs gps	r0	r0	r0	r0		r0	r0		r0	mo-aircraft	
<u>b462</u>	ADIENT	2009-jun-24		r0	r0	drs gps	r0	r0	r0	r0		r0	r0			mo-aircraft	mo-aircraft
<u>b461</u>	EM25/ADIENT	2009-jun-24		r0	r0	drs gps	r0	r0	r0	r0		r0	r0			mo-aircraft	mo-aircraft
<u>b460</u>	EM25-ADIENT	2009-jun-23		r0	r0	drs	r0	r0	r0	r0		r0	rl		r0	mo-aircraft	mo-aircraft
<u>b459</u>	EM25-ADIENT	2009-jun-22		r0	r0	drs	r0	r0	r0	r0		r0	r1		r0	mo-aircraft	mo-aircraft
b458	EM25-ADIENT	2009-jun-18		r0	r0	drs gps	r0	r0	r0	r0		rO	r0			mo-aircraft	mo-aircraft
<u>b457</u>	EM25/VISURB	2009-jun-16		r0	rl	drs gps	r0	r1	rl	rl			r0			mo-aircraft	mo-aircraft
<u>b456</u>	APPRAISE	2009-jun-06		r0	r2	drs gps	r0	r2	r2	r2		r0	r0		r0		
<u>b455</u>	COSIC	2009-jun-03		r0	rl	drs gps		r1	r1	r1							cosic
<u>b454</u>	VIROSS	2009-jun-02	r0	r0	rl	drs gps drs gps		r1	r1	r1		r0					mo-aircraft
<u>b453</u>	VIROSS	2009-jun-02	r0	r0	rl	drs gps drs gps		r1	r1	rl		r0					mo-aircraft
<u>b452</u>	ADIENT	2009-jun-01		r0	rl	gps drs		r1	r1	rl		rO					appraise
<u>b451</u>	ADIENT	2009-may-31		r0	r0	drs gps		r0	r0	r0		r0					appraise
b450	ADIENT	2009-may-29		r0	rl		r0	r1	r1	rl		r0	r0				appraise

You can also see the same table arranged by campaign in order of occurrence at <u>http://badc.nerc.ac.uk/cgi-bin/data\_browser/data\_browser/badc/faam/data/00catalogue-campaigns.html</u>

# **Core-processed file parameters.**

# http://badc.nerc.ac.uk/browse/badc/faam/doc/core data parameters measured by flight/core data contents 2009.html

The core instruments operated for each flight depend on the scientific configuration of instruments on board. The table uses data from the description files supplied to show what data is present in the core data file. The instrument short name appears down the left hand side and contains links to further information on that parameter. Flight numbers across the top show the campaign name, date and what revision number core files are present in the archive. The flight number also links to the data directory for that flight. As this table is quite large, and to assist when scrolling, flight numbers are present in each cell where a parameter is present and hovering the mouse over each row gives the parameter long name.

ck on the fli	ight number to	go to the dat	a for th	at flight.													
i style (PAI	RAxxxx) param	eter names	were us	e until June 200	07. Flights b28	5, b289 and b2	93 onwards us	se the new para	ameter names.								
ll the mouse	over the para	neter code o	or anyw	here along that	row to see the	short and long	name of the pa	rameter. For a	fuller description	on click on the	links of the pa	rameter codes	where availabl	e.			
	Flight			<u>b422</u>	<u>b423</u>	<u>b424</u>	<u>b425</u>	<u>b426</u>	<u>b427</u>	<u>b429</u>	<u>b430</u>	<u>b431</u>	<u>b432</u>	<u>b433</u>	<u>b434</u>	<u>b435</u>	<u>b436</u>
Date				15-jan-2009	20-jan-2009	21-jan-2009	22-jan-2009	28-jan-2009	30-jan-2009	17-feb-2009	18-feb-2009	26-feb-2009	27-feb-2009	03-mar-2009	03-mar-2009	14-apr-2009	21-apr-200
Campaign .nc file version descrip.txt				APPRAISE-ICE	APPRAISE-ICE	APPRAISE-ICE	APPRAISE-ICE	APPRAISE-ICE	APPRAISE-ICE	AETIAQ	APPRAISE-ICE	APPRAISE-ICE	APPRAISE-ICE	APPRAISE-ICE	APPRAISE-ICE	MEVEX	MEVEX
				r0 r0	r0 r0	r0 r0	r0 r0	r0 r0		r0 r0	r0 r0	r0 r0	r0 r0	r0 r0	r0 r0	r0 r0	r0 r0
arameter	Old name	unit	freq														
Time	Time	Seconds	1Hz	b422	b423	b424	b425	b426	12	ъ429	b430	b431	b432	b433	b434	b435	b436
<u>s rvsm</u>	PARA0516	m s-1	32Hz	b422	ð <b>1</b> 23	b424	b425	b426	1.5	b429	b430	b431	b432	b433	b434	b435	b436
S RVSM	PARA0517	m s-1	32Hz	b422	b42 IAS_F	VSM:Indicated air	speed from the airc	craft RVSM (air		b429	b430	b431	b432	b433	b434	b435	b436
T DI R	PARA0520	degK	32Hz	b422	b42 IAS_F b42	system.	0425	0420	-	b429	b430	b431	b432	b433	b434	b435	b436
T_ND_R	PARA0525	degK	32Hz		b423	b424	b425	b426	14	b429	ь430	b431	b432	b433	b434	b435	b436
	PARA0529	degK	04Hz		b423	b424	6425	b426	100	b429	b430	b431	b432	b433	b434	b435	b436
	PARA0535	gram kg-1	04Hz		b423	b424	6425	b426		b429	b430	b431	b432	b433	b434	b435	b436
	PARA0537	degK.	04Hz		b423	b424	b425	b426	-	b429	b430	-		-			b436
AOA	PARA0548	degree	32Hz		b423	b424	b425	b426	14	ъ429	b430	b431	b432	b433	b434	b435	b436
AOSS	PARA0549	degree	32Hz		b423	b424	b425	6426	1.5	ь429	6430	b431	b432	b433	b434	b435	Ъ436
3 TECO	PARA0574	ppb	01Hz		b423	b424	b425	6426		b429	b430	b431	b432	b433	b434	b435	b436
	PARA0575	m	02Hz		b423	b424	b425	426	· · ·	b429	b430	b431	b432	b433	b434	b435	b436
	PARA0576	hPa	32Hz		b423	b424	b425	6436		b429	b430	b431	b432	b433	b434	b435	b436
	PARA0577	hPa	32Hz 32Hz		b423 b423	b424 b424	6425 6425	6426 6426	1070	6429 6429	6430 6430	b431 b431	b432 b432	b433 b433	b434 b434	b435 b435	b436 b436
	PARA0578 PARA0579	m hPa	01Hz	-	b423 b423	6424 6424	6425 6425	b426	-	6429 6429	6430 6430	6431 6431	6432 6432	6433 6433	6434 6434	6435 6435	b436
	PARA0579 PARA0602	gram m-3	01Hz		6423 6423	6424 6424	6425 6425	6426 6426	$\mathbf{h}$	6429 6429	6430 6430	6431 6431	6432 6432	6433 6433	6434 6434	6435 6435	b436
	PARA0602	gram m-3	08Hz		6423 6423	6424 6424	6425 6425	6426 6426	$\mathbf{X}$	6429 6429	6430 6430	6431 6431	6432 6432	6433 6433	6434 6434	6435 6435	b436
	PARA0603	m-1	03Hz		6423 6423	6424 6424	6425 6425	6426 b426		6429 6429	6430 6430	6431 6431	6432 6432	6433 6433	6434 6434	6435 6435	b436
-	PARA0649	111-1	01Hz		b423	6424 6424	b425	b426	-	6429 6429	b430 b430	6431 6431	6432 6432	b433	b434	b435	b436
-	PARA0660	deaC	01Hz				6425 6425	6426		h429	b430	b431 b431	h432	6433 6433	6434	. 6435	b436

Links from parameter short name to more information. Mouse over shows the long name of the parameter.

This table is updated automatically when new description files are submitted to the archive.

## **Further Information**

Please see the BADC FAAM website at http://badc.nerc.ac.uk/data/faam/

Or email the BADC helpdesk at badc@rl.ac.uk