Introduction

A number of individuals based around the UK used the Forward Scatter technique (Using BRAMS and Graves) to detect and record Radio Meteor Events, monthly this data is then added to a central database. Given the receiving stations all different in setup and there is little or no standardisation across the stations there are limits to how the data can be used in a scientific context.

We can however plot trends and create matched events (Events with a duration that exceed 10 seconds recorded by three or more different contributors and are + / - within 5 seconds of each other)

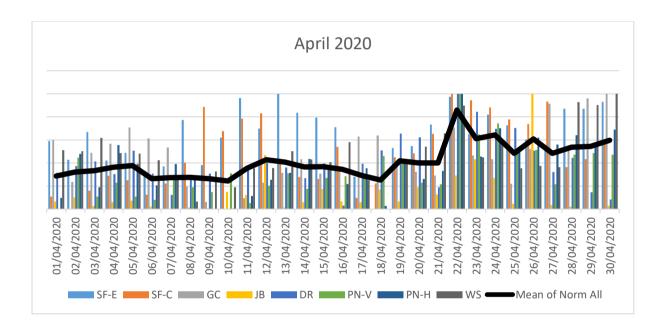


Trend of contributions for April 2020

The graph below shows the trend of contributions over time for the month of April – Counts are not displayed as its simply a trend for the month. You can however see the Lyrids Peak

Key Meteor showers in April 2020

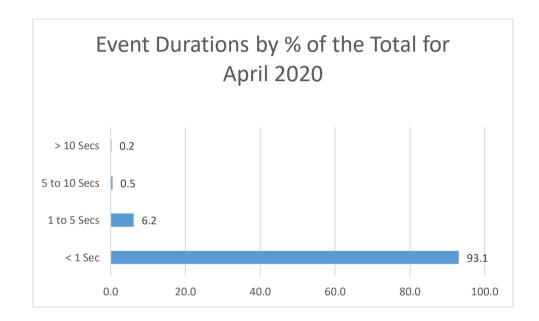
Shower	Dates	Peak	
Lyrids	16 April – 25 April	21/22 April	



April Event data broken down into durations

	Raw Data					
Month	Total Count	< 1 Sec	1 to 5 Secs	5 to 10 Secs	> 10 Secs	
April	102,159	95,095	6,301	510	253	

Event Durations as a % of the Total						
Month	< 1 Sec	1 to 5 Secs	5 to 10 Secs	> 10 Secs		
April	93.1	6.2	0.5	0.2		



Matched Events - Events with a duration that exceed 10 seconds recorded by three or more different contributors and are + / - within 5 seconds of each other

There were 20 potential matches in April – A notable one is below

Event 896 at 08:58:31 on 22 April 2020

Contributor	RX Lat	RX Lng	TX Source	Time Sync	Time	Duration in Seconds	Ratio	Doppler Estimate
Steve Futcher - Clan	50.90	-1.00	Graves	NetTime	08:58:31	30.38	22.20	1
William Stewart	53.10	-2.60	Graves	Dimension 4	08:58:31	34.12	25.40	6
Derek Robson	52.70	-1.20	Graves	Dimension 4	08:58:31	37.03	17.20	26
Graham Cluer	51.40	-1.00	Graves	Dimension 4	08:58:32	33.71	25.90	68
John Berman	51.40	-0.10	Graves	Dimension 4	08:58:32	30.50	43.00	-27
Steve Futcher - Ems	50.	-0.90	Graves	NetTime	08:58:35	24.41	19.60	-3
Philip Norton - H	53.10	-0.50	Graves	Dimension 4	08:58:37	14.67	40.90	-1

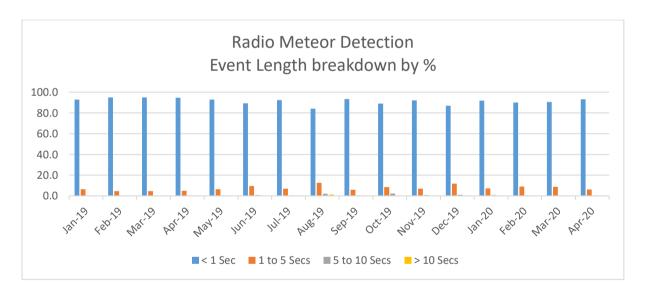
You can get more detail by going to: http://meteor.m81.co.uk/duration_lookup10list.php and looking at event 896

or go here to see the screen captures: http://meteor.m81.co.uk/v picturelist.php?x groupm=896

To see all of the April Coincidences please go to: http://meteor.m81.co.uk/duration_lookup10list.php

Event data broken down into durations for 2019/20

Event Durations as a % of the Total						
Month	< 1 Sec	1 to 5 Secs	5 to 10 Secs	> 10 Secs		
Jan-19	92.9	6.5	0.4	0.1		
Feb-19	94.9	4.6	0.3	0.2		
Mar-19	95.0	4.6	0.2	0.1		
Apr-19	94.5	4.9	0.4	0.2		
May-19	92.8	6.5	0.5	0.3		
Jun-19	89.3	9.5	0.8	0.3		
Jul-19	92.2	6.9	0.5	0.3		
Aug-19	84.1	12.6	2.0	1.3		
Sep-19	93.3	6.0	0.4	0.2		
Oct-19	88.9	8.6	2.3	0.2		
Nov-19	92.1	7.0	0.7	0.3		
Dec-19	86.9	11.8	0.9	0.4		
Jan-20	91.9	7.1	0.7	0.3		
Feb-20	90.2	8.9	0.6	0.3		
Mar-20	90.7	8.8	0.3	0.2		
Apr-20	93.1	6.2	0.5	0.2		



It can be clearly seen that the categorised event durations each month tend to be very aligned.

Please do feedback with any comments and or suggestion as to how we may make more us of this data – Jberman44@googlemail.com