

Supplementary 1: S1

UK																		
Event Date	Event Lat/Long	Wm	Cr	Fd	Ch	Ap	Ti	H Total	Pw	Sm	Sg	Se	Ai	Fi	R Total	Validity	Index Score	Location
1 Nov 1755	51.206328 -4.126537	2			1		2	1.6	5	4	2	2	3	1	2.8	2	2.2	Ilfracombe
27 Feb 1756	51.206328 -4.126537	3	4		1		3	2.7	4	4	2	2	2	1	2.5	3	2.6	Ilfracombe
31 May 1759	50.725152 -2.936509				1			1		3	2	3		1	2.2	1	1.6	Lyme Regis
31 Mar 1761	50.118445 -5.539267	3			1			2		5	3	3		1	3	2	2.5	Mounts Bay
18 Sept 1763	50.609378 -2.447155	4			1			2.5		4	4	2		1	2.7	3	2.6	Weymouth
11 Feb 1764	51.453134 -2.600982	5			1		2	2.6	5	3	5	3		1	3.4	3	3	Bristol
23 Dec 1791	50.332108 -4.634230				2			2	1	5	3	2		1	2.4	2	2.3	Penzance
17 July 1793	50.388078 -4.187339	2	4		1			2.3	3	2	3	3	2	1	2.3	3	2.3	Plymouth
18 Aug 1797	50.725152 -2.936509	4	5		2		4	3.6	5	3	2	3	4	1	3	1	3.3	Lyme Regis
9 Aug 1802	50.388123 -4.187341	2			1			1.5	3	4	3	3		1	2.8	3	2.2	Devon
10 Aug 1802	50.545898 -3.495653	2			1			1.5	3	2	1	3		1	2	3	1.8	Teignmouth
30 Aug 1802	50.527805 -4.194967	3			1			2		2	5	2		1	2.5	2	2.3	Jersey
31 May 1811	50.388078 -4.187339	4		2	1			2.3	3	2	3	3	3	1	2.5	3	2.4	Plymouth
4 Mar 1818	50.781345 -0.918077	3			2			2.5	3	1	3	3		1	2.2	3	2.4	Portsmouth
13 Sept 1821	50.388078 -4.187339	3			1			2	5	2	3	3	3	1	2.8	3	2.4	Plymouth
13 July 1824	50.388078 -4.187339	2	5		1			2.8	1	2	3	3	2	1	2	3	2.4	Plymouth
23 Nov 1824	50.388078 -4.187339	3	5	5	3		3	3.8	3	2	3	3	2	5	3	4	3.4	Plymouth
5 July 1843	50.388078 -4.187339	3			1			2	3	2	3	3		1	2.4	3	2.2	Plymouth
3 July 1845	50.609378 -2.447155	2	3		1			2	3	5	4	2		1	3	3	2.5	Weymouth
5 July 1846	50.118445 -5.539267	2			1			1.5	1	5	3	3		1	2.6	2	2	Penzance
1 Aug 1846	50.118445 -5.539267	2			1			1.5	1	5	3	3		1	2.6	3	2	Penzance
23 May 1847	50.118445 -5.539267	3	4	4	1		2	2.8	3	5	3	3	2	1	2.8	4	2.8	Penzance
7 July 1848	51.453134 -2.600982	3			1			2	1	3	5	3		1	2.6	2	2.3	E/B channel
6 June 1855	50.118445 -5.539267	3	1		1			1.7	4	5	2	3	2	1	2.8	3	2.2	Penzance
5 June 1858	50.814255 -0.371222	3	5	2	4		2	3.2	3	5	2	4	3	1	3	4	3.1	E Channel
25 June 1859	50.118445 -5.539267	2			1		4	2.3	1	5	3	3		1	2.6	2	2.4	Penzance
4 Oct 1859	50.305492 -3.963675	5		4	1			3.3	3	5	3	3		1	3	2	3.1	Cornwall/Devon
Oct 1865	51.584903 -3.800578				1			1		2	5	2		1	2.5	1	1.8	Port Talbot
23 Apr 1868	50.725152 -2.936509	5			1			3		4	2	3		1	2.5	2	2.7	Lyme Regis
29 Sept 1869	50.305492 -3.963675	3			1			2	3	5	3	3		1	3	3	2.5	Cornwall/Devon
13 June 1881	60.154665 -1.146817		5		1			3		1	5	4	3	1	2.8	2	2.9	Shetland
28 Aug 1883	50.388078 -4.187339	1			1	3	2	1.7	3	2	3	3	1	1	2.1	4	1.9	Plymouth
17 Oct 1883	51.514348 -2.728113	3	5	5	4		5	4.4	3	3	5	5	4	1	3.5	4	3.9	Severn Estuary

13 June 1886	57.479998 -4.226221		2		5		1				2.6		4	1		5		4	2	1	2.8		4	2.7	Inverness	
18 Aug 1892	50.3388123 -4.187341		4		5		1				3.3			3	3	3	3	3	3	1	2.6	3	3	3	Yealm	
16-Dec-10	51.206328 -4.126537		4		5	4	3		4	4	4	3	4	2	2	5	2	3	4	2	3	4	3.5	4	3.5	Ilfracombe
26-Dec-12	50.690359 -1.089180		3				3				3.2	5	2	4	2	5	1	3	4	5	3.1	4	4	3.1	IOW	
20-Jul-29	51.082261 1.207840		4		5		5	2	2	2	3.6	4	4	4	2	4	5	3	4	5	3.8	4	4	3.7	Folkstone	
02-Aug-32	51.584858 -3.800576		5				1				3		1	2	5	5	3	2	5	5	3.2	2	3	3.1	Aberavon	
05-Aug-38	54.081644 -0.190007		3		4		1		2	2	2.5	3	3	5	2	3	1	3	1	1	2.8	4	4	2.6	Bridlington	
04-Jul-39	50.262379 -4.783795		3		3		1		3	3	2.5	1	3	4	2	3	5	3	5	3	3	4	2.8	4	2.8	Milford Haven
03-Jul-46	50.118445 -5.539267				4		1				2.5	2	3	3	3	3	1	3	3	1	2.5	2	2	2.5	Penzance	
13-Jul-49	51.713077 -5.035976				5		1				3	1	2	5	3	2	1	2	2	1	2.3	2	2	2.6	Mevagissey	
06-Jul-57	50.690359 -1.089180		4		5		1		4	4	3.7	4	2	4	2	3	1	2	3	1	2.6	4	4	3.1	Bembridge	
31-Jul-66	51.039990 -4.237581		4		5		1	5	4	4	3.8	4	5	5	2	3	2	3	2	3.5	4	4	3.6	3.6	Westward Ho	
01-Jul-68	50.823110 0.409003						1	5			3		4	4	2		1	2	1	2.8	2	2	2.9	2.9	E Channel	
13-Jul-79	51.453134 -2.600982		4		5	5	2		5	4	4.2	3	3	5	3		1	3	4	3	3	4	3.6	3.6	Bristol	
24-Oct-06	50.7053 -3.0719		2			3	2		4	4	2.7	3	5	3	4	2	1	3	3	3	3	3	2.8	3	2.8	Seaton
01-Nov-06	51.9347 -1.2603		2			2					2	3	2	3	4	1	1	2	2	1	2.3	2	2	2.2	2.2	Harwich
28-May-08	57.508229 -1.783477		2				1	2			1.7	1	3	4	2		1	2	4	1	2.2	4	2	2.2	2.2	Peterhead
29-Jan-10	52.477364 1.750427		1				1	1	3	3	1.5	4	4	4	3	1	1	2	1	2.8	4	4	2.2	2.2	2.2	Lowestoft
29-Aug-10	52.477364 1.750427		1				1	2	2	2	1.5	2	4	4	3	1	1	2	1	2.8	4	4	1.9	1.9	1.9	Lowestoft
03-Feb-11	57.89666 -5.15483		2				2	1	3	3	2	2	4	4	2	1	1	2	1	2.7	4	4	2.3	2.3	2.3	Ullapool
27-Jun-11	50.388078 -4.187339		2		5		2	5	2	2	3.2	3	2	3	3	1	1	2	1	2.2	4	4	2.7	2.7	2.7	Devonport
22-Aug-11	50.791271 0.054164		2			1	1		3	3	1.6	1	4	4	3	1	1	2	1	2.3	4	4	2	2.3	2.3	Newhaven
24-Nov-11	57.89666 -5.15483		1				1	1	4	4	1.8	1	4	4	2	1	1	2	1	2.2	4	4	2	2	2	Ullapool
03-Jan-12	52.477364 1.750427		2				2	2	3	3	2.3	4	4	4	3	1	1	2	1	2.8	4	4	2.5	2.5	2.5	Lowestoft
04-Feb-13	58.207722 -6.385266		2				1		2	2	1.7	3	2	4	2	1	1	2	1	2.1	4	4	1.9	1.9	1.9	Stornoway
03-Aug-13	57.149851 -2.093760		1				1	2	2	2	1.5	3	1	4	2	1	1	2	1	2	4	4	1.8	1.8	1.8	Aberdeen
28-Oct-13	50.388078 -4.187339		1				3	2	1	1	1.9	1	2	3	3	1	1	2	1	1.8	4	4	1.9	1.9	1.9	Devonport
05-Dec-13	58.459144 -5.051109		2				3	3	5	5	3.3	4	1	4	2	5	1	2	5	2.8	4	4	3	3	3	Kinlochbervie
15-Dec-13	57.89666 -5.15483		1				2	1	4	4	2	4	4	4	2	1	1	2	1	2.7	4	4	2.3	2.3	2.3	Ullapool
18-Dec-13	51.713077 -5.035976		2				2	4	4	4	3	4	3	4	2	1	1	2	1	2.5	4	4	2.7	2.7	2.7	Milford Haven
20-Dec-13	58.459144 -5.051109		1				2	3	4	4	2.5	4	1	4	2	4	1	2	4	2.6	4	4	2.5	2.5	2.5	Kinlochbervie
21-Dec-13	57.89666 -5.15483		1				1	1	4	4	1.8	5	4	4	2	4	1	3	4	3.3	4	4	2.6	2.6	2.6	Ullapool
03-Jan-14	50.106745 -5.550280		2				3	3	4	4	3	5	3	4	2	3	1	2	3	3	4	4	3	3	3	Newlyn
08-Feb-14	50.609378 -2.447155		1				1	2	2	2	1.5	4	4	4	2	2	1	2	1	2.8	4	4	2.1	2.1	2.1	Weymouth
12-Feb-14	50.609378 -2.447155		1				2	1	4	4	2	2	4	4	2	2	1	2	1	2.5	4	4	2.2	2.2	2.2	Weymouth
21-May-14	50.791271 0.054164		1				1	1	2	2	1.3	2	4	4	3	1	1	2	1	2.5	4	4	1.9	1.9	1.9	Newhaven
22-May-14	60.154638 -1.146818		2				3	1	4	4	2.5	3	1	5	4	3	1	2	1	2.8	4	4	2.7	2.7	2.7	Lerwick
01-Jan-15	57.89666 -5.15483		1				1	1	3	3	1.5	1	4	4	2	1	1	2	1	2.2	4	4	1.9	1.9	1.9	Ullapool
08-Jan-15	57.89666 -5.15483		1				1	1	3	3	1.5	3	4	4	2	1	1	2	1	2.5	4	4	2	2	2	Ullapool
01-Jul-15	56.963661 -2.209288		1				2	1	3	3	1.8	3	2	4	2	1	1	2	1	2.2	4	4	2	2	2	Stonehaven
02-Jul-15	60.154638 -1.146818		2				3	4	2	2	2.8	2	1	5	4	1	1	2	1	2.3	4	4	2.6	2.6	2.6	Lerwick
10-Dec-15	57.89666 -5.15483		1				2	1	4	4	2	3	4	4	2	1	1	2	1	2.5	4	4	2.3	2.3	2.3	Ullapool
27-Jan-16	54.643368 -3.549368		2				1	4	4	4	2.8	5	2	5	2	1	1	2	1	2.7	4	4	2.7	2.7	2.7	Workington
01-Feb-16	58.207722 -6.385266		1				3		3	3	1.5	4	2	4	2	1	1	2	1	2.3	4	4	2	2	2	Stornoway
23-Jun-16	50.823110 0.409003		1			1	1	4	3	3	2	1	4	4	2	2	1	2	2	2.3	4	4	2.2	2.2	2.2	E Channel
25-Aug-16	50.388078 -4.187339		2		5		1	1	4	4	2.6	2	2	3	3	3	1	2	3	2.3	4	4	2.5	2.5	2.5	Devonport
16-Nov-16	58.459144 -5.051109		2				3	2	2	2	2.3	5	1	4	2	2	1	2	2	2.5	4	4	2.4	2.4	2.4	Kinlochbervie

26-Dec-16	58.207722 -6.385266	2			1		3	2	3	2	4	2	1	1	2.2	4	2.1	Stornoway
11-Jan-17	58.459144 -5.051109	1			2	2	4	2.3	3	1	4	2	2	1	2.1	4	2.2	Kinlochbervie
16-Oct-17	60.154638 -1.146818	2			3	3	4	3	4	1	5	4	2	1	2.8	4	2.9	Lerwick
29-Jun-19	57.149851 -2.093760	2			2	3	2	2.2	4	1	4	2	1	1	2.2	4	2.2	Aberdeen
08-Feb-20	58.510717 -6.254608	2	4	4	1		4	3	5	5	2	3	1	1	2.8	4	2.9	Port Stoth
21-Aug-20	51.374160 -6.964043	2			3	2	4	3.2	2	5	4	3	1	1	2.6	4	2.9	Perranporth
05-Jul-21	51.039990 -4.237581	2	4	4	1	1	3	2.5	5	5	5	2	1	1	3.2	4	2.8	Westward Ho
09-Aug-21	50.427598 -3.683118	1			1	2	4	2	5	2	4	3	1	1	2.6	4	2.3	Totnes
27-Sep-21	50.388078 -4.187339	2			1	4	2	2.3	1	2	4	3	1	1	2	4	2.2	Plymouth
02-Oct-21	50.427598 -3.683118	1			1	2	3	1.3	5	2	4	3	1	1	2.6	4	2	Totnes
20-Oct-21	50.388078 -4.187339	2			1	5	4	3	3	2	4	3	1	1	2.3	4	2.6	Plymouth
27-Nov-21	50.427598 -3.683118	2			1	3	4	2.5	1	2	4	3	1	1	2	4	2.2	Totnes
30-Dec-21	50.427598 -3.683118	2			1	2	2	1.8	1	2	4	3	1	1	2	4	1.9	Totnes
16-Jan-21	51.603789 -6.610038	2			1	4	3	2.5	1	2	1	2	1	1	1.3	4	1.9	Port Isaac
08-Feb-22	58.454733 -8.311040	2	4	4	1		4	3	5	5	3	2	1	1	2.8	4	2.9	Dunnet
18-Jun-22	50.106745 -5.550280	2	4		1	5	2	2.8	5	3	4	2	2	1	2.8	4	2.8	Newlyn
19-Jul-22	53.279049 -4.618126	2	4	2	2	5	3	2.6	5	5	4	3	1	2	3.3	4	2.9	Anglesey
10-Sep-22	50.427598 -3.683118	1				1	2	1.3	1	2	4	3		1	2.2	4	1.7	Totnes
01-Nov-22	50.388078 -4.187339				2	3		2.5	3	2	3	3	1	1	2.1	4	2.3	Plymouth
08-Nov-22	51.603789 -6.610038	2			2	3	2	2.7	3	2	1	2	1	1	1.6	4	1.9	Port Isaac
100 events					HT	RT	INDEX	%										
L1	LOW				27	3	14	12										
L2	MED				47	74	69	69										
L3	HIGH				23	23	16	16										
L4	SEV				3	0	0	0										
L5	EXT				0	0	0	0										

Supplementary 2: S2

Global																	
Event Date	Wm	Cr	Fd	Ch	Ap	Ti	H Total	PW	SM	SG	SE	Ai	Fi	R Total	Validity	Index Score	Location
30-Jan-1607		5	5	5	4		5	4.8	5	3	5	3	5	5	4	4.6	Bristol, UK
21-Jun-78		5	5	5	2		4	4	3	2	4	3	5	3	4	3.8	Vela Luka, Croatia
31-Mar-79		5			1	5		3.6	3	2	4	2	4	5	3	3.5	Nagasaki, Japan
04-Jul-03		2	2		1	5		2.5	5	4	5	2	1	5	4	3.1	Michigan, G. Lakes, USA
15-Jun-06		5	4	3	2	5		3.8	4	2	5	3	3	1	4	3.4	Ciutudella, Menorca
25-Jun-09		2			1	4	2	2.3	4	2	4	2	1	1	4	2.3	Icheon, South Korea
29-Jul-10		2	3	1	1	3		2	3	1	3	2	1	1	4	1.9	Pellinki, Finland

01-Nov-10	2		2	2	3	3	2.4	4	1	4	3	1	1	2.3	3	2.4	Strait of Georgia, Canada
07-Jan-13	2			1	5		2.7	3	2	4	3	2	1	2.5	3	2.6	Fremantle, Australia
09-Feb-14	3	5	2	1			2.8	5	5	5	4	2	1	3.7	4	3.2	Cassino Beach, Brazil
25-Jun-14	2	3	2	2	4		2.6	4	2	4	3	2	1	2.6	4	2.6	Mazara del vallo, Sicily
08-Aug-15	3		4	2			3	3	5	4	1	4	3	3.3	3	3.1	Bucalempu, Chile
15-May-16	2			1	2	2	1.8	3	2	4	2	2	1	2.3	3	2	Colombo, Sri Lanka
19-Mar-17	4		2	2	4		3	3	5	5	3	4	5	4.2	4	3.6	Dayyer, Persian Gulf
27-May-17	4		3	1	4	3	3	3	5	4	2	2	1	2.8	4	2.9	Zandvoort, Netherlands