

Description	GRIB2 Product Discipline (Section 0, Octet 7)	GRIB2 Product Category (Section 4, Octet 10)	GRIB2 Parameter Number (Section 4, Octet 11)	GRIB2 level indicator (Section 4, Octet 23 and 29)	GRIB 2 Product Definition Template (Section 4, Octet 8 and 9)	Resolution	GRIB2 pressure levels (hPa)	GRIB2 flight levels (approximate)	GRIB 2 timesteps required	WMO Header Assignment					WAFAC London CCCC	WAFAC Washington CCCC
										T1	T2	A1	A2	i1i2		
U-component Wind	0	2	2	100	0	1.25	850, 750, 700, 600, 500, 400, 450, 350, 300, 275, 250, 225, 200, 175, 150, 125, 100	050, 080, 100, 140, 180, 210, 240, 270, 300, 320, 340, 360, 390, 410, 450, 480, 530	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	U	X	C, D, E, F, G, H, I, J, K, L, M	85, 75, 70, 60, 50, 45, 40, 35, 30, 27, 25, 23, 20, 18, 15, 13, 10	EGRR	KWBC
V-component Wind	0	2	3	100	0	1.25	850, 750, 700, 600, 500, 450, 400, 350, 300, 275, 250, 225, 200, 175, 150, 125, 100	050, 080, 100, 140, 180, 210, 240, 270, 300, 320, 340, 360, 390, 410, 450, 480, 530	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	V	X	C, D, E, F, G, H, I, J, K, L, M	85, 75, 70, 60, 50, 45, 40, 35, 30, 27, 25, 23, 20, 18, 15, 13, 10	EGRR	KWBC
Temperature	0	0	0	100	0	1.25	850, 750, 700, 600, 500, 450, 400, 350, 300, 275, 250, 225, 200, 175, 150, 125, 100	050, 080, 100, 140, 180, 210, 240, 270, 300, 320, 340, 360, 390, 410, 450, 480, 530	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	T	X	C, D, E, F, G, H, I, J, K, L, M	85, 75, 70, 60, 50, 45, 40, 35, 30, 27, 25, 23, 20, 18, 15, 13, 10	EGRR	KWBC
Relative Humidity	0	1	1	100	0	1.25	850, 750, 700, 600, 500	050, 080, 100, 140, 180	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	R	X	C, D, E, F, G, H, I, J, K, L, M	85, 75, 70, 60, 50	EGRR	KWBC
Tropopause Height (ICAO)	0	3	3	7	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	H	X	C, D, E, F, G, H, I, J, K, L, M	97	EGRR	KWBC
Tropopause Temperature	0	0	0	7	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	T	X	C, D, E, F, G, H, I, J, K, L, M	97	EGRR	KWBC
Maximum U-component Wind	0	2	2	6	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	U	X	C, D, E, F, G, H, I, J, K, L, M	96	EGRR	KWBC
Maximum V-component Wind	0	2	3	6	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	V	X	C, D, E, F, G, H, I, J, K, L, M	96	EGRR	KWBC
Maximum Wind Height (ICAO)	0	3	3	6	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	H	X	C, D, E, F, G, H, I, J, K, L, M	96	EGRR	KWBC
Geopotential Height of Standard levels	0	3	5	100	0	1.25	850, 750, 700, 600, 500, 450, 400, 350, 300, 275, 250, 225, 200, 175, 150, 125, 100	050, 080, 100, 140, 180, 210, 240, 270, 300, 320, 340, 360, 390, 410, 450, 480, 530	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	H	X	C, D, E, F, G, H, I, J, K, L, M	85, 75, 70, 60, 50, 45, 40, 35, 30, 27, 25, 23, 20, 18, 15, 13, 10	EGRR	KWBC
Mean Icing (Potential)	0	19	20	100	15	1.25	800, 700, 600, 500, 400, 300	060, 100, 140, 180, 240, 300	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	I	X	C, D, E, F, G, H, I, J, K, L, M	80, 70, 60, 50, 40, 30	EGRR	KWBC
Maximum Icing (Potential)	0	19	20	100	15	1.25	800, 700, 600, 500, 400, 300	060, 100, 140, 180, 240, 300	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	I	X	C, D, E, F, G, H, I, J, K, L, M	81, 71, 61, 51, 41, 31	EGRR	KWBC
Mean CAT (Potential)	0	19	22	100	15	1.25	400, 350, 300, 250, 200, 150	240, 270, 300, 340, 390, 450	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	L	X	C, D, E, F, G, H, I, J, K, L, M	40, 35, 30, 25, 20, 15	EGRR	KWBC
Maximum CAT (Potential)	0	19	22	100	15	1.25	400, 350, 300, 250, 200, 150	240, 270, 300, 340, 390, 450	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	L	X	C, D, E, F, G, H, I, J, K, L, M	41, 36, 31, 26, 21, 16	EGRR	KWBC
CB Horizontal Extent	0	6	25	10	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	B	X	C, D, E, F, G, H, I, J, K, L, M	01	EGRR	KWBC
ICAO Height at CB Base	0	3	3	11	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	H	X	C, D, E, F, G, H, I, J, K, L, M	02	EGRR	KWBC
ICAO Height at CB Top	0	3	3	12	0	1.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	H	X	C, D, E, F, G, H, I, J, K, L, M	03	EGRR	KWBC
Icing Severity	0	19	39	100	15	0.25	800, 700, 600, 500, 400, 300	060, 100, 140, 180, 240, 300	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	I	Y	C, D, E, F, G, H, I, J, K, L, M	80, 70, 60, 50, 40, 30	EGRR	KWBC
Turbulence Severity (EDR)	0	19	30	100	15	0.25	700, 600, 500, 400, 350, 300, 250, 200, 150	100, 140, 180, 240, 270, 300, 340, 390, 450	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	L	Y	C, D, E, F, G, H, I, J, K, L, M	70, 60, 50, 40, 35, 30, 25, 20, 15	EGRR	KWBC
CB Horizontal Extent	0	6	25	10	0	0.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	B	Y	C, D, E, F, G, H, I, J, K, L, M	01	EGRR	KWBC
ICAO Height at CB Base	0	3	3	11	0	0.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	H	Y	C, D, E, F, G, H, I, J, K, L, M	02	EGRR	KWBC
ICAO Height at CB Top	0	3	3	12	0	0.25	n/a	n/a	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36	Y	H	Y	C, D, E, F, G, H, I, J, K, L, M	03	EGRR	KWBC

WMO Doc 386 Attachment II-5 Reference Tables

Data type designator	T1	Y, X	Reference Table A (note: X is not specified, but is used to differentiate between resolutions)
Data type designator	T2	B, H, I, L, R, T, U, V	Reference Table B2 (when T1 = D, G, H, X or Y)
Geographic area designator	A1	X	Reference Table C3 (T1 = D, G, H, O, P, Q, T, X or Y)
Reference time designator	A2	C, D, E, F, G, H, I, J, K, L, M	Reference Table C5 (when T1 = Q, X or Y)
Level designator	i1i2	97, 96, 85, 81, 80, 75, 71, 70, 61, 60, 51, 50, 45, 41, 40, 36, 35, 31, 30, 27, 26, 25, 23, 21, 20, 18, 16, 15, 13, 10, 03, 02, 01	Reference Table D2 (when T1 = D, G, H, J, P, Q, X or Y)

NOTE:

Mean and Maximum Icing Potential parameters are for layers 100hPa deep, centred on the stated level
Mean and Maximum CAT Potential parameters are for layers 50hPa deep, centred on the stated level