

The technical content of this document is approved under the authority of DOA nr. UK.21J.0140 (C873)

8.44 METRIC LOAD CHARTS

8.44.1 GENERAL INFORMATION

This supplement shall be inserted in the Flight Manual, in Section 8: 'Supplements' with the revisions record sheet amended accordingly.

Information contained herein supplements, or in the case of conflict, supersedes that contained in the basic Flight Manual. For Limitations, Procedures, and Performance Data not contained in this supplement, consult the basic Hot Air Balloon Flight Manual.

Issue 3 of this supplement consists of six pages.

There are no additional continued airworthiness requirements associated with this supplement.

8.44.2 LIMITATIONS

No change.

8.44.3 EMERGENCY PROCEDURES

No change.

8.44.4 NORMAL PROCEDURES

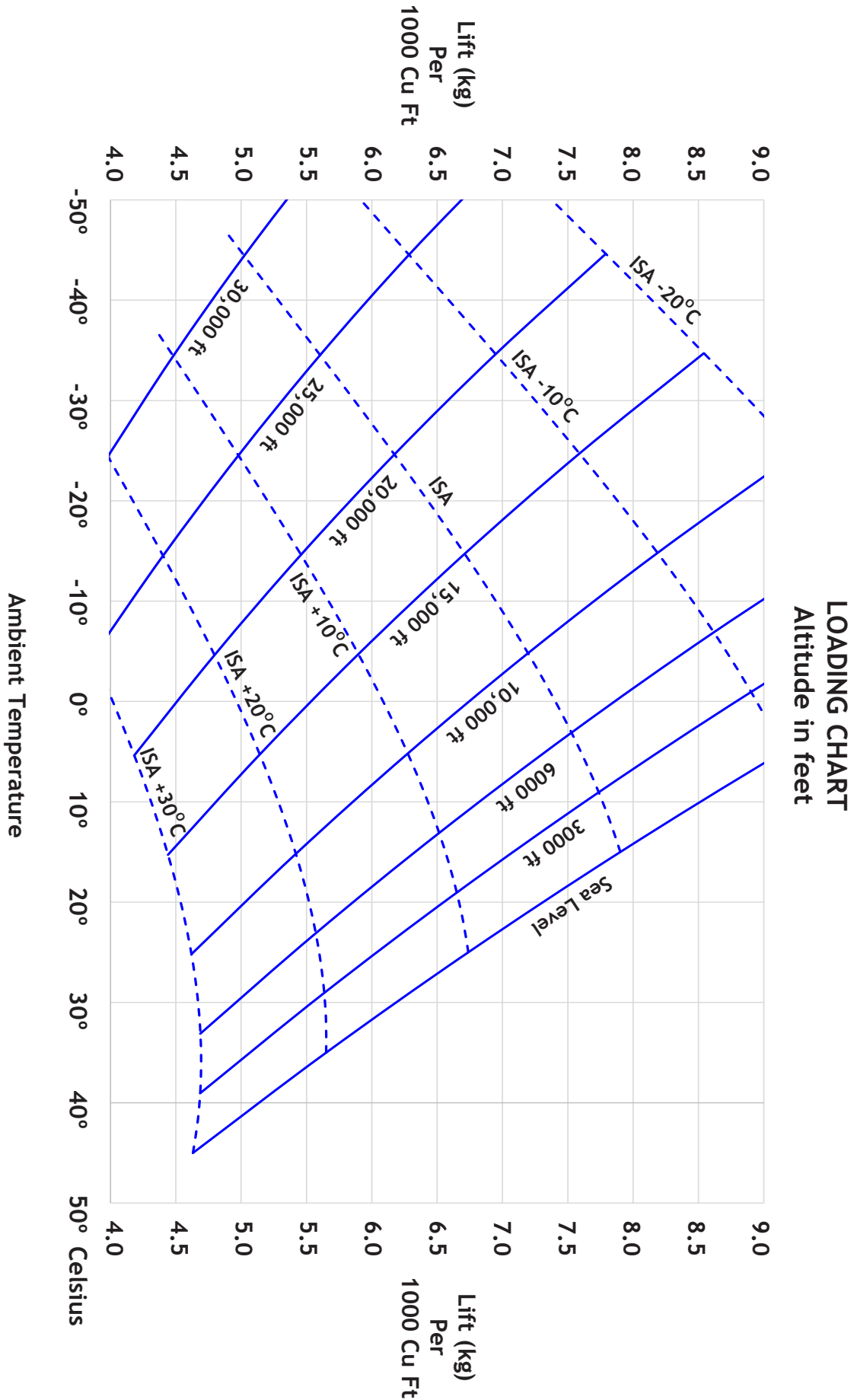
No change.

8.44.5 WEIGHT CALCULATIONS

8.44.5.1 INTRODUCTION

This supplement gives the required information to calculate the weight range within which the balloon can be operated when using metric (S.I.) units.

Cameron envelopes are defined by volume, measured in cubic feet. This supplement uses this convention and supplies the available lift in kilogrammes per 1000 cu.ft.



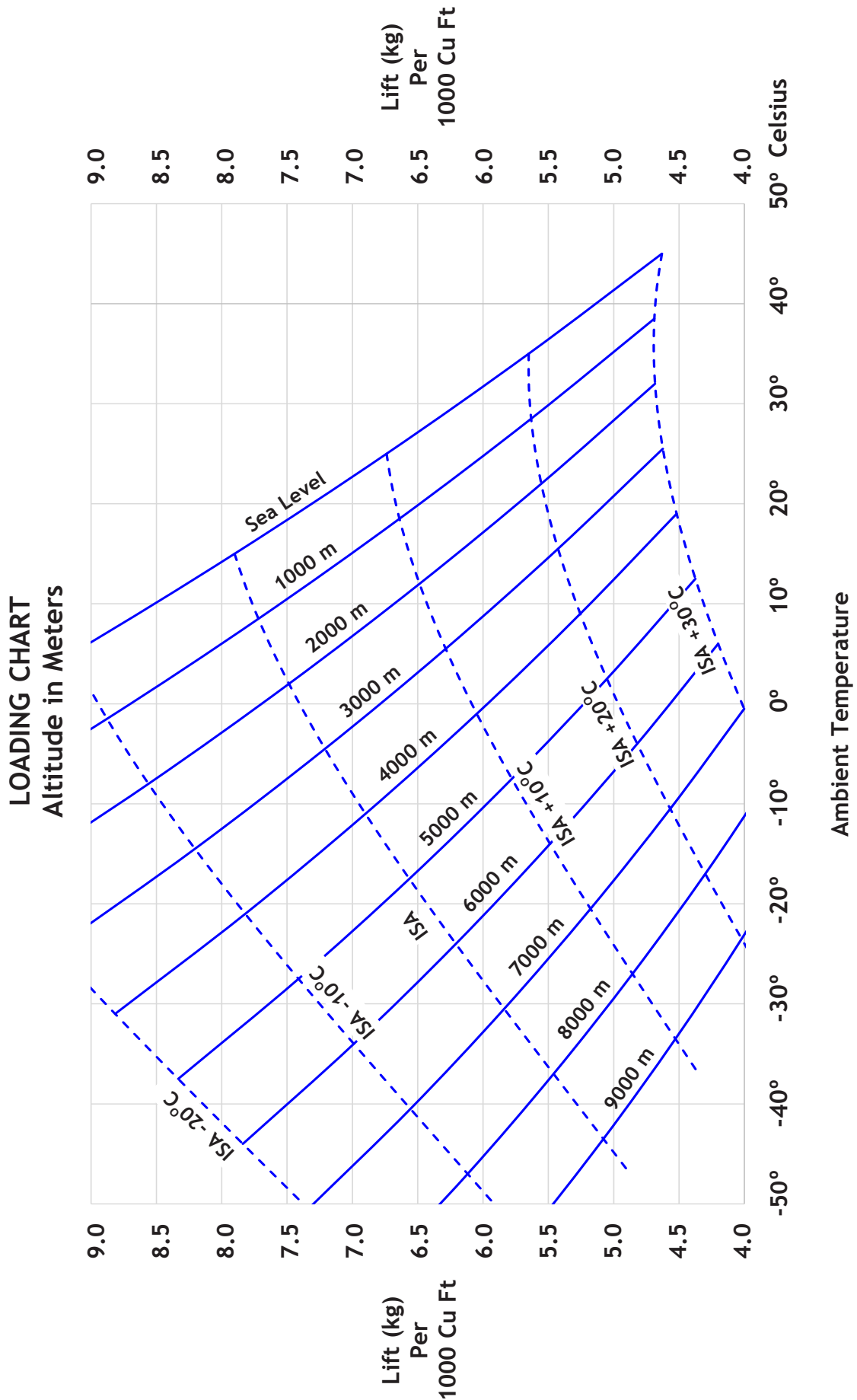


Table 3: Total Permitted Lift (kg)

Balloon Size	Volume (cu.ft)	Lift (kg) Per 1000 cu.ft									
		4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
25	25000	113	125	138	150	163	175	188	200	213	225
26	26000	117	130	143	156	169	182	195	208	221	234
31	31450	142	157	173	189	204	220	236	252	267	283
35	35000	158	175	193	210	228	245	263	280	298	315
42	42000	189	210	231	252	273	294	315	336	357	378
50	50000	225	250	275	300	325	350	375	400	425	450
56	56000	252	280	308	336	364	392	420	448	476	504
60	60000	270	300	330	360	390	420	450	480	510	540
65	65000	293	325	358	390	423	455	488	520	553	585
69	69000	311	345	380	414	449	483	518	552	587	621
70	70000	315	350	385	420	455	490	525	560	595	630
77	77500	349	388	426	465	504	543	581	620	659	698
80	80000	360	400	440	480	520	560	600	640	680	720
84	84000	378	420	462	504	546	588	630	672	714	756
90	90000	405	450	495	540	585	630	675	720	765	810
100	100000	450	500	550	600	650	700	750	800	850	900
105	105000	473	525	578	630	683	735	788	840	893	945
120	120000	540	600	660	720	780	840	900	960	1020	1080
133	133000	599	665	732	798	865	931	998	1064	1131	1197
140	140000	630	700	770	840	910	980	1050	1120	1190	1260
145	145000	653	725	798	870	943	1015	1088	1160	1233	1305
150	150000	675	750	825	900	975	1050	1125	1200	1275	1350
160	160000	720	800	880	960	1040	1120	1200	1280	1360	1440
180	180000	810	900	990	1080	1170	1260	1350	1440	1530	1620
200	200000	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
210	210000	945	1050	1155	1260	1365	1470	1575	1680	1785	1890
225	225000	1013	1125	1238	1350	1463	1575	1688	1800	1913	2025
240	240000	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160
250	250000	1125	1250	1375	1500	1625	1750	1875	2000	2125	2250
260	260000	1170	1300	1430	1560	1690	1820	1950	2080	2210	2340
275	275000	1238	1375	1513	1650	1788	1925	2063	2200	2338	2475
300	300000	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700
315	315000	1418	1575	1733	1890	2048	2205	2363	2520	2678	2835
340	340000	1530	1700	1870	2040	2210	2380	2550	2720	2890	3060
340HL	340000	1530	1700	1870	2040	2210	2380	2550	2720	2890	3060
350	350000	1575	1750	1925	2100	2275	2450	2625	2800	2975	3150
370	370000	1665	1850	2035	2220	2405	2590	2775	2960	3145	3330
375	375000	1688	1875	2063	2250	2438	2625	2813	3000	3188	3375
400	400000	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600
415	415000	1868	2075	2283	2490	2698	2905	3113	3320	3528	3735
420LW	420000	1890	2100	2310	2520	2730	2940	3150	3360	3570	3662
425LW	425000	1913	2125	2338	2550	2763	2975	3188	3400	3613	3662
450LW	450000	2025	2250	2475	2700	2925	3150	3375	3600	3815	3815
450/ 450S	450000	2025	2250	2475	2700	2925	3150	3375	3600	3825	4050
500	500000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500

Table 3: Total Permitted Lift (kg) (continued)

Balloon Size	Volume (cu.ft)	Lift (kg) Per 1000 cu.ft									
		4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
500LW	500000	2250	2500	2750	3000	3250	3500	3750	4000	4240	4240
530LW	530000	2385	2650	2915	3180	3445	3710	3975	4240	4500	4500
530	530000	2385	2650	2915	3180	3445	3710	3975	4240	4505	4770
550	550000	2475	2750	3025	3300	3575	3850	4125	4400	4675	4950
600	600000	2700	3000	3300	3600	3900	4200	4500	4800	5089	5089
650	650000	2925	3250	3575	3900	4225	4550	4875	5089	5089	5089
750	750000	3375	3750	4125	4500	4875	5103	5103	5103	5103	5103

8.44.6 BALLOON AND SYSTEMS DESCRIPTION

No change.

8.44.7 BALLOON MAINTENANCE, HANDLING AND CARE

No change.

8.44.9 EQUIPMENT LIST

No change.

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