

Payload Plan

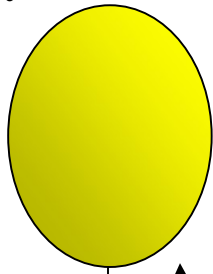
EOSS-353 Lite

0735 MST, 02 DEC 2023

Rev C

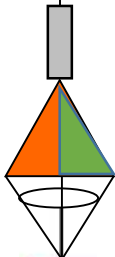
Deer Trail, CO

(final payload mass, drop one payload)



1500 gm
latex balloon

20 ft 240# woven nylon



12 ft Rocketman parachute with remote release Charlie 820 g (1.81 #)



AEØSS-2-JP02 Discovry (Heavy)
Remote Release/DF
145.535 MHz 471 g (1.04 #)

13 ft

16 ft

9 ft

9 GHS BalloonSats
spaced @ 24" on 500# woven nylon
Total wt : 4,019 g (final) (8.86 #)

Payload Order (top to bottom):
5, 8, 6, 7, 10, 9, 2, 1, 3



KØSCC-14-JPN04 APRS/Digi EOSSD
Time slotted at 0:17 and 0:47
144.340 MHz 740 g (1.63 #)

| Item | Weight pounds | Weight kg |
|------------------------------------|---------------|-----------|
| Student Experiments | 8.86 | 4.019 |
| EOSS Payloads | 2.67 | 1.211 |
| Parachute | 1.81 | 0.820 |
| Neck load | 13.34 | 6.050 |
| Balloon | 3.31 | 1.500 |
| Gross Weight | 16.64 | 7.550 |
| Gross Lift Factor | 1.30 | 1.30 |
| Neck Lift | 18.33 | 8.314 |
| H2 fill; scf (approx) | 292 | |
| Burst Altitude; kft km | 92.5 | 28.2 |
| Manual Release Altitude kft | 90.5 | |

www.wxqa.com/sss/balon1.cgi
AEØSS-2 / EOSS-353

www.wxqa.com/sss/balon1.cgi
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