

# Payload Plan

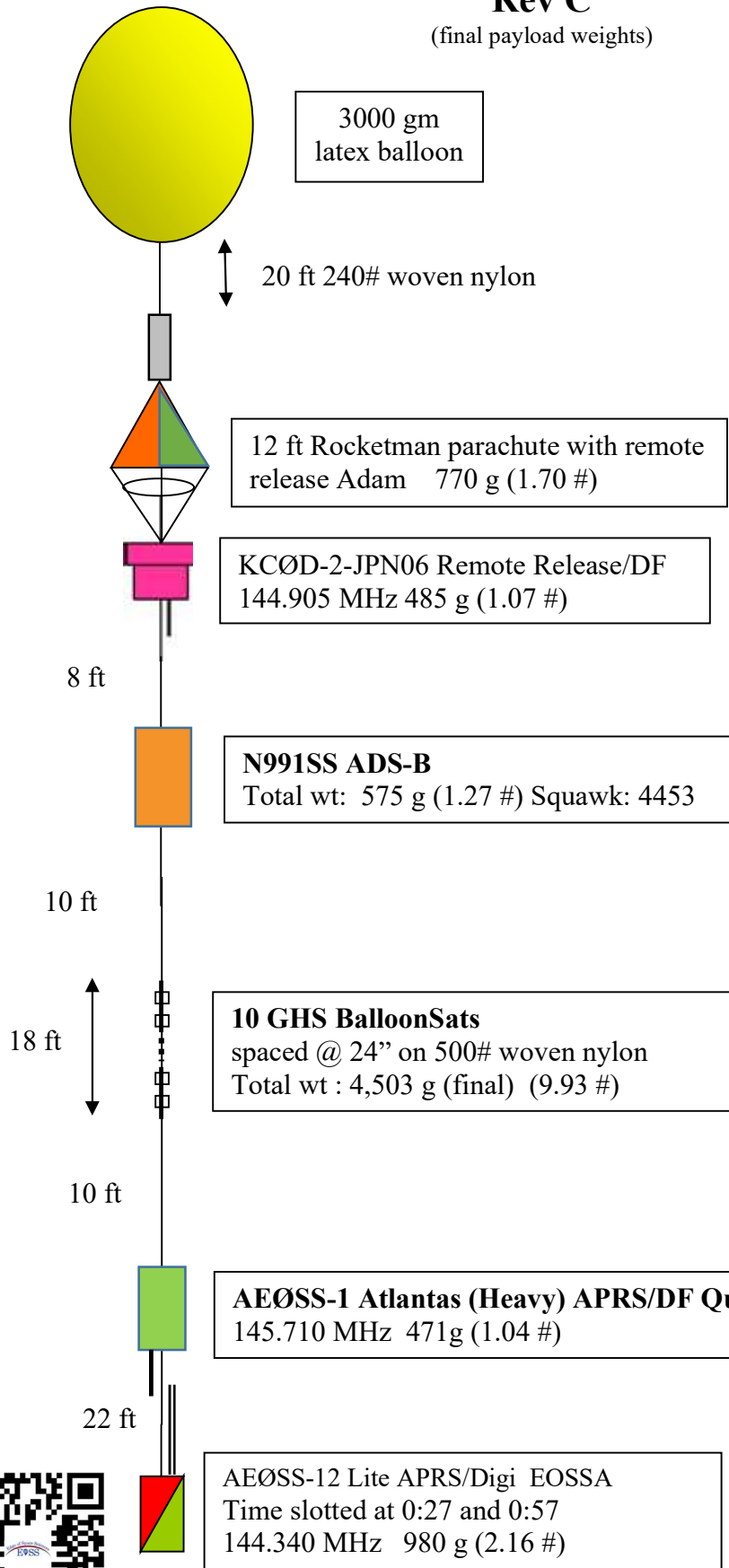
# EOSS-351 Heavy

0700 MST, 02 DEC 2023

## Rev C

(final payload weights)

## Deer Trail, CO



3000 gm latex balloon

20 ft 240# woven nylon

12 ft Rocketman parachute with remote release Adam 770 g (1.70 #)

KCØD-2-JPN06 Remote Release/DF 144.905 MHz 485 g (1.07 #)

8 ft

**N991SS ADS-B**  
Total wt: 575 g (1.27 #) Squawk: 4453

10 ft

18 ft

**10 GHS BalloonSats**  
spaced @ 24" on 500# woven nylon  
Total wt : 4,503 g (final) (9.93 #)

Payload Order (top to bottom):  
4, 5, 8, 6, 7, 10, 9, 2, 1, 3  
Note: payload 4 separate from prestrung student payloads

10 ft

**AEØSS-1 Atlantis (Heavy) APRS/DF Qual**  
145.710 MHz 471g (1.04 #)

22 ft

**AEØSS-12 Lite APRS/Digi EOSSA**  
Time slotted at 0:27 and 0:57  
144.340 MHz 980 g (2.16 #)

Item	Weight pounds	Weight kg
Student Experiments	9.93	4.503
EOSS Payloads	5.54	2.511
Parachute	1.70	0.770
Neck load	17.16	7.784
Balloon	6.61	3.000
Gross Weight	23.77	10.784
Gross Lift Factor	1.20	1.20
Neck Lift	21.92	9.939
H2 fill; scf (approx)	385	
Burst Altitude; kft km	107.1	32.6
<b>Manual Release Altitude kft</b>	<b>106.0</b>	

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KCØD-2 / EOSS-351



[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
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