

# Payload Plan

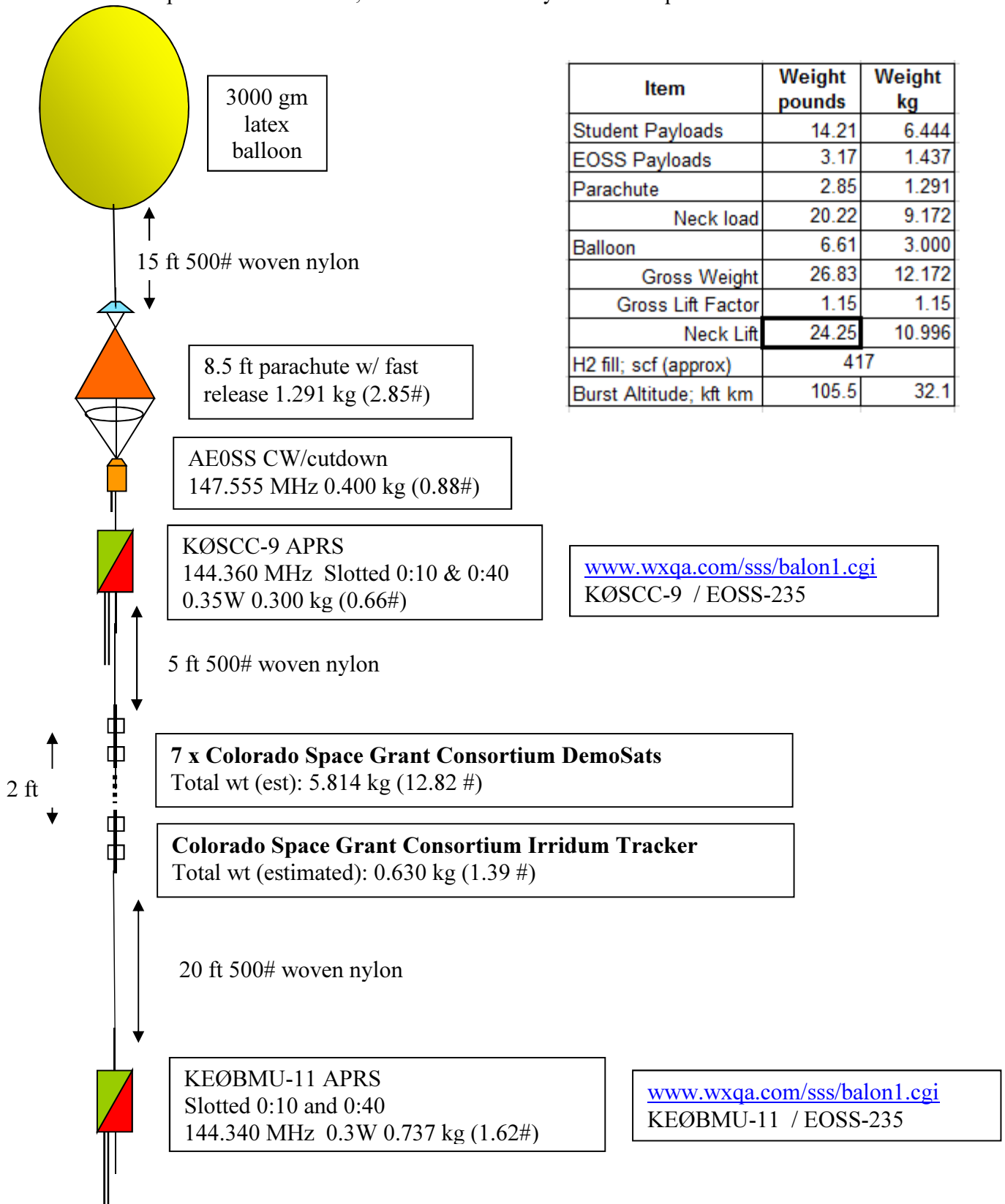
# EOSS-235 heavy

0720 MDT, 12 Nov 2016

Rev C

Limon, CO

updated student mass, corrected secondary beacon freq



3000 gm latex balloon

15 ft 500# woven nylon

8.5 ft parachute w/ fast release 1.291 kg (2.85#)

AE0SS CW/cutdown  
147.555 MHz 0.400 kg (0.88#)

KØSCC-9 APRS  
144.360 MHz Slotted 0:10 & 0:40  
0.35W 0.300 kg (0.66#)

5 ft 500# woven nylon

7 x Colorado Space Grant Consortium DemoSats  
Total wt (est): 5.814 kg (12.82 #)

Colorado Space Grant Consortium Irridium Tracker  
Total wt (estimated): 0.630 kg (1.39 #)

20 ft 500# woven nylon

KEØBMU-11 APRS  
Slotted 0:10 and 0:40  
144.340 MHz 0.3W 0.737 kg (1.62#)

Item	Weight pounds	Weight kg
Student Payloads	14.21	6.444
EOSS Payloads	3.17	1.437
Parachute	2.85	1.291
Neck load	20.22	9.172
Balloon	6.61	3.000
Gross Weight	26.83	12.172
Gross Lift Factor	1.15	1.15
Neck Lift	24.25	10.996
H2 fill; scf (approx)	417	
Burst Altitude; kft km	105.5	32.1

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KØSCC-9 / EOSS-235

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KEØBMU-11 / EOSS-235