

# Payload Plan

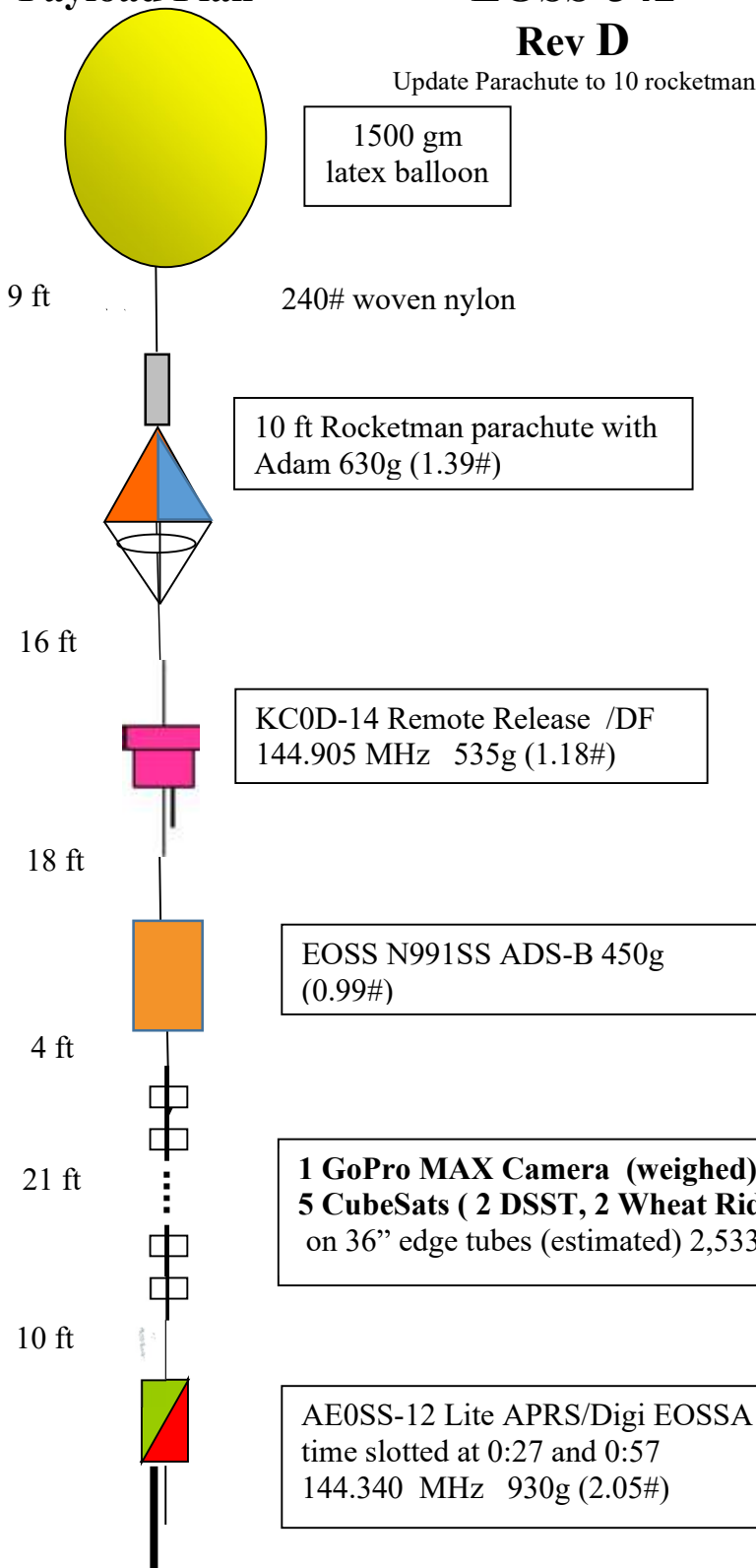
# EOSS-342

0700 MDT, 3 June 2023

## Rev D

Wiggins, CO

Update Parachute to 10 rocketman



1500 gm  
latex balloon

240# woven nylon

10 ft Rocketman parachute with  
Adam 630g (1.39#)

KC0D-14 Remote Release /DF  
144.905 MHz 535g (1.18#)

EOSS N991SS ADS-B 450g  
(0.99#)

**1 GoPro MAX Camera (weighed) 163g (0.36 #)**  
**5 CubeSats ( 2 DSST, 2 Wheat Ridge, 1 Northfield)**  
on 36" edge tubes (estimated) 2,533g (5.58 #)

AE0SS-12 Lite APRS/Digi EOSSA  
time slotted at 0:27 and 0:57  
144.340 MHz 930g (2.05#)

Item	Weight pounds	Weight kg
Student Experiments	5.58	2.533
EOSS Payloads	4.22	1.915
Parachute	1.39	0.630
Neck load	11.20	5.078
Balloon	3.31	1.500
Gross Weight	14.50	6.578
Gross Lift Factor	1.30	1.30
Neck Lift	15.55	7.050
H2 fill; scf (approx)	255	
Burst Altitude; kft km	95.5	29.1

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KC0D-14 / EOSS-342

N-Number: N991SS  
ICAO Code: ADD7FB  
Squawk: 4453

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