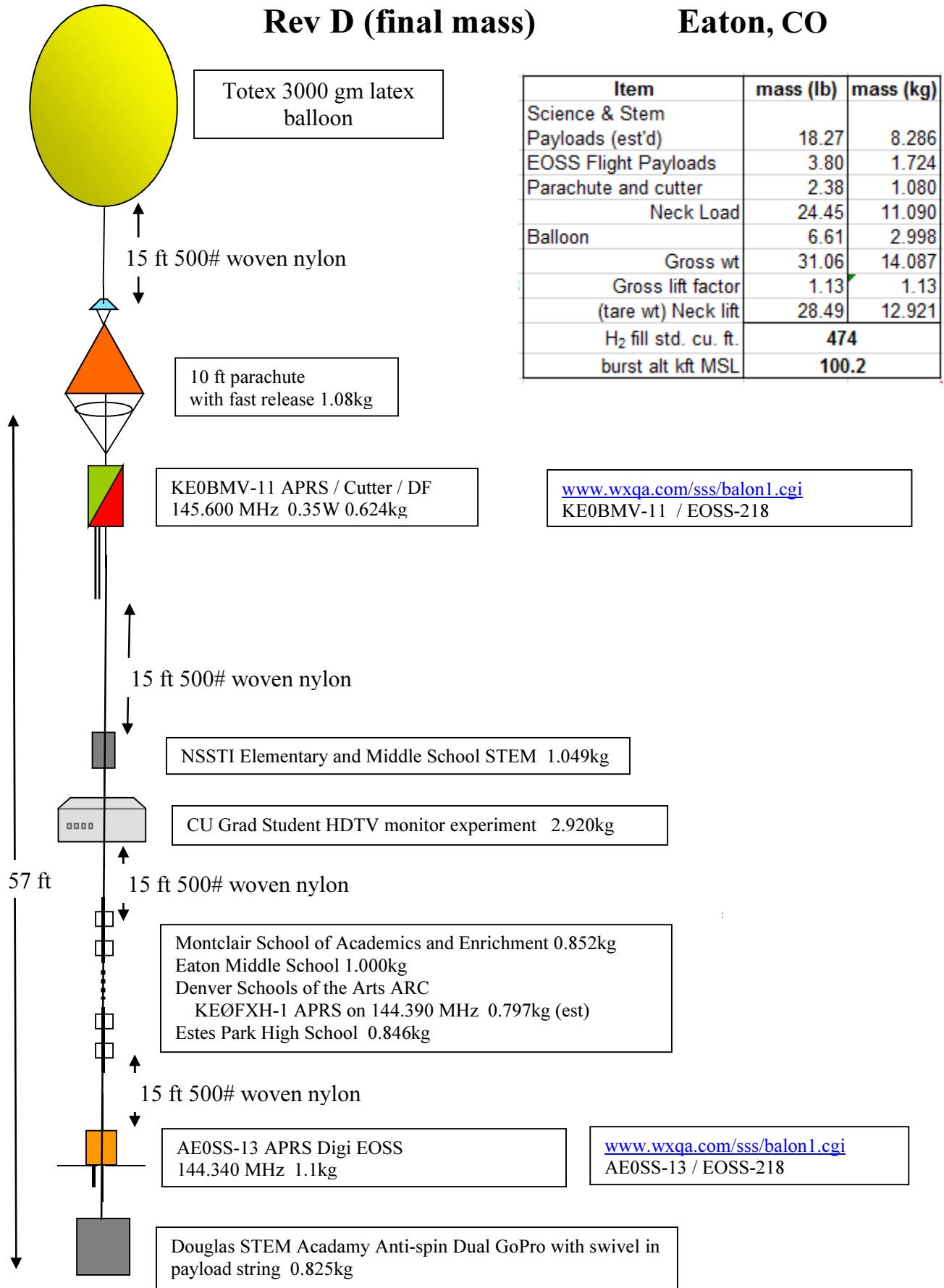


# Payload Plan

## EOSS-218 Rev D (final mass)

0700 MST, 13 Feb 2016  
Eaton, CO



Totex 3000 gm latex balloon

15 ft 500# woven nylon

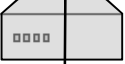
10 ft parachute with fast release 1.08kg

KE0BMV-11 APRS / Cutter / DF  
145.600 MHz 0.35W 0.624kg

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KE0BMV-11 / EOSS-218

15 ft 500# woven nylon

NSSTI Elementary and Middle School STEM 1.049kg



CU Grad Student HDTV monitor experiment 2.920kg

57 ft

15 ft 500# woven nylon

Montclair School of Academics and Enrichment 0.852kg  
Eaton Middle School 1.000kg  
Denver Schools of the Arts ARC  
KE0FXH-1 APRS on 144.390 MHz 0.797kg (est)  
Estes Park High School 0.846kg

15 ft 500# woven nylon

AE0SS-13 APRS Digi EOSS  
144.340 MHz 1.1kg

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
AE0SS-13 / EOSS-218

Douglas STEM Academy Anti-spin Dual GoPro with swivel in payload string 0.825kg

Item	mass (lb)	mass (kg)
Science & Stem Payloads (est'd)	18.27	8.286
EOSS Flight Payloads	3.80	1.724
Parachute and cutter	2.38	1.080
Neck Load	24.45	11.090
Balloon	6.61	2.998
Gross wt	31.06	14.087
Gross lift factor	1.13	1.13
(tare wt) Neck lift	28.49	12.921
H <sub>2</sub> fill std. cu. ft.	474	
burst alt kft MSL	100.2	