

**MISSION NOMINAL TIMELINE**

<b>Event</b>	<b>Time from Launch (sec)</b>
Stage 1 Motor Ignition	0
Lift Off	2.1
Stage 1 MECO	233.7
Stage 1 Separation	238.7
Fairing Separation	324.4
Stage 1/2 Interstage Separation	329.4
Stage 2 Ignition	333.4
Stage 2 Burn Out	488.3
Payload Separation (Orbit Insertion)	608.3

**MISSION EVENT SEQUENCING**

<b>Event</b>	<b>Time (sec)</b>	<b>Altitude (km)</b>	<b>Latitude (deg N)</b>	<b>Longitude (deg E)</b>
<b>STAGE 1 IGNITION</b>	0.017	0.025	37.834	-75.488
<b>STAGE 1 HANGFIRE</b>	5.017	0.033	37.834	-75.488
<b>STAGE 1 BOOST</b>	5.027	0.034	37.834	-75.488
<b>STAGE 1 THROTTLE DOWN</b>	205.057	78.735	37.052	-73.975
<b>STAGE 1 SHUTDOWN</b>	233.737	109.433	36.514	-72.993
<b>STAGE SEPARATION</b>	238.747	115.185	36.403	-72.794
<b>ENABLE RCS</b>	239.747	116.315	36.38	-72.755
<b>ENABLE PEG STEERING</b>	254.747	132.54	36.046	-72.167
<b>DISABLE RCS FOR FAIRING SEP</b>	324.317	190.108	34.473	-69.548
<b>FAIRING SEPARATION</b>	324.397	190.158	34.471	-69.545
<b>RE-ENABLE RCS AFTER FAIRING SEP</b>	326.397	191.384	34.425	-69.472
<b>DISABLE RCS FOR INTERSTAGE SEP</b>	329.317	193.131	34.358	-69.366
<b>STAGE 1/2 INTERSTAGE SEPARATION</b>	329.397	193.178	34.356	-69.363
<b>ENABLE UPPER RCS AFTER INTERSTAGE SEP</b>	331.397	194.345	34.31	-69.291
<b>STAGE 2 IGNITION</b>	333.397	195.488	34.264	-69.218
<b>STAGE 2 TAIL-OFF</b>	483.777	277.788	29.232	-62.817
<b>STAGE 2 COAST</b>	488.317	277.771	29.018	-62.591
<b>ORIENT FOR PAYLOAD SEP</b>	498.317	277.644	28.545	-62.096
<b>DISABLE RCS FOR PAYLOAD SEP</b>	608.237	276.215	23.216	-56.944
<b>PAYLOAD SEPARATION</b>	608.317	276.214	23.212	-56.94
<b>RE-ENABLE RCS AFTER PAYLOAD SEP</b>	610.317	276.188	23.113	-56.851
<b>ORIENT FOR CCAM</b>	611.317	276.175	23.064	-56.807
<b>CONTAMINATION/COLLISION AVOIDANCE MANUEVER</b>	908.317	272.604	7.868	-44.731
<b>RCS TANK DEPLETION</b>	1028.317	271.494	1.567	-40.23
<b>POST RCS BLOWDOWN COAST</b>	1118.317	270.825	-3.171	-36.879





