

**MSG 229 - RED FD16 MISSION SUMMARY**

1 Columbia, let the countdown to landing begin! We are all sad that the mission is coming to  
2 an end, but we are happy that very soon we will be able to hear your impressions and  
3 experiences in person. Red FD16 is the start of the typical entry prep activities combined  
4 with some experiment deactivation. You'll also notice that sleep times for Ilan and Willie  
5 have been adjusted for the sleep shift for entry.

6 Just a few more MEIDEX observations, a SOLCON observation and a couple of LPT passes  
7 to go for FREESTAR and it's a rap.

8 Keep up the good work!

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12 YOUR CURRENT ORBIT IS: 150 X 140 NM

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14 NOTAMS:

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16 EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER

17 WHITE SANDS (NOR) – GREEN

18 KING KHALID (KKI) – 15R/33L CLOSED

19 NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT

20 LAJES (LAJ) - 15/33 LAST 2K OF ACTIVE RWY CLSD 0800-1900Z

21 BEN GUERIR (BEN) – NOT RECOMMENDED

22 BANJUL (BYD) – NOT RECOMMENDED

23 MONROVIA (LRB) - NOT RECOMMENDED

24 TAMANRASSETT (AAT) - NOT RECOMMENDED

25 SOUDA (GSA) – NOT SUPPORTING

26 DYESS (DYS) – NOT USABLE

27 ORLANDO (MCO) - 18R/36L CLSD 1230-1430Z DAILY UNTIL 31 JAN 1430Z

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29 NEXT 2 PLS OPPORTUNITIES:

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31 EDW04 ORB 240 14/23:08

32 KSC33 ORB 255 15/21:39

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34 OMS TANK FAIL CAPABILITY:

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36 L OMS FAILS: NO

37 R OMS FAILS: NO

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39 LEAKING OMS PRPLT BURN:

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41 L OMS LEAK: ALWAYS BURN RETROGRADE

42 R OMS LEAK: ALWAYS BURN RETROGRADE

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44 OMS QUANTITIES(%)

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46 L OMS OX = 34.1 R OMS OX = 34.2

47 FU = 33.8 FU = 33.8

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49 SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

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1 DELTA V AVAILABLE:  
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3 OMS 275 FPS  
4 ARCS (TOTAL ABOVE QTY1) 20 FPS  
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6 TOTAL IN THE AFT 295 FPS  
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8 ARCS (TOTAL ABOVE QTY2) 50 FPS  
9 FRCS (ABOVE QTY 1) 26 FPS  
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11 AFT QTY 1 81 %  
12 AFT QTY 2 43 %  
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22 FIW SUMMARY  
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<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
SHAB	Slow degradation of flow in the SPACEHAB water loop when using the current water pump (pump 1). This is a similar signature as observed on pump 2 early in the mission (ref Msg 28 for pump 2 FIW)	Degraded but acceptable water loop performance. water pump 1 is predicted to support nominal end of mission and extension days.	The CE WPP DEACT procedure will be updated to configure the water loop valves to decrease the flow through the CEWL HX and increase the flow through the CHX to help compensate.

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