

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

Yoya's Message:

Hail to the Seven

A group of seven flew to space,
Their fame is growing apace.
Their work concerns seventy two and seven,
To us they speak from heaven.
Divided into two, they are three and four,
To us they are one with spirit galore.

Some remarks to the crew from Yoya ... We had some nice dust passes yesterday with your competent help.

The pass over Brazil conducted by Ilan resulted in an extraordinary and serendipitous result. There is a hypothesis raised among us atmospheric "hotshots" (this means that we generate a lot of hot air) that smoke, viz. strongly absorbing aerosols, leads to the break-up of clouds in its volume of occurrence. It does so by absorbing solar radiation aloft and stabilizing the atmosphere. Since smoke is being generated seasonally on a global scale by biomass burning this might be an important climatic phenomenon, mostly anthropogenic.

What Ilan caught is a huge smoke plume embedded in the large scale cumulus type cloud field over the Amazonian jungle. No clouds are visible in the smoke plume and in a clear rim surrounding it! This is a clear experimental proof of the hypothesis. It looks like I would draw it on the blackboard in class to illustrate the concept.

We are considering including the image and its analysis into a paper to the journal Science.

More power to the crew and many thanks to HHOPS and to the JSC folks who supported this very late intrusion onto an already very crowded timeline.

Secondly, I would like to ask my thanks and deep appreciation for the special mention over the airwaves that you presented me with. I got so excited and was so touched that I did not hear the last part of the poem.

A more formal and appropriate poetic reply might be forthcoming.

MSG 211 - BLUE FD15 MEIDEX OPS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

FD15 Blue Operations

Special Instructions:

- 1) The MEIDEX Ops message for FD15 will be divided into two parts, one for each shift.
- 2) For error messages, select "OK" to ignore on MEIDEX PGSC (as many times as required). Notify MCC and perform MEIDEX PGSC Reboot per MSG 149.
- 3) As long as we remain in the bay to earth attitude, we will leave the MEIDEX door open as much as possible, so we will be making some calls for independent door ops.
- 4) We are getting close to the end of the flight, and also close to the end of our internal payload VCR recording capability, so we will be modifying our payload VCR philosophy as follows: we would like you to record only when you see a plume and for no more than 3 minutes per plume. If you see multiple plumes during a single observation, you may record each independently. If you see substantial dust activity, you are go to record for longer periods on MCC GO.

Start	Procedure	Instructions	R/NR	CMD	Notes
13/19:40	MEIDEX SETUP	Step 1 (Timer Setup)	NR	--	
		Step 2 (PTV Check)	REQ	Crew	
		Step 3 (Tape Verification)	REQ	Crew	
	MX PGSC Reboot	Reference Msg 149	REQ	Crew	

25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44