

**MSG 104B - RED FD08 MEIDEX OPS**

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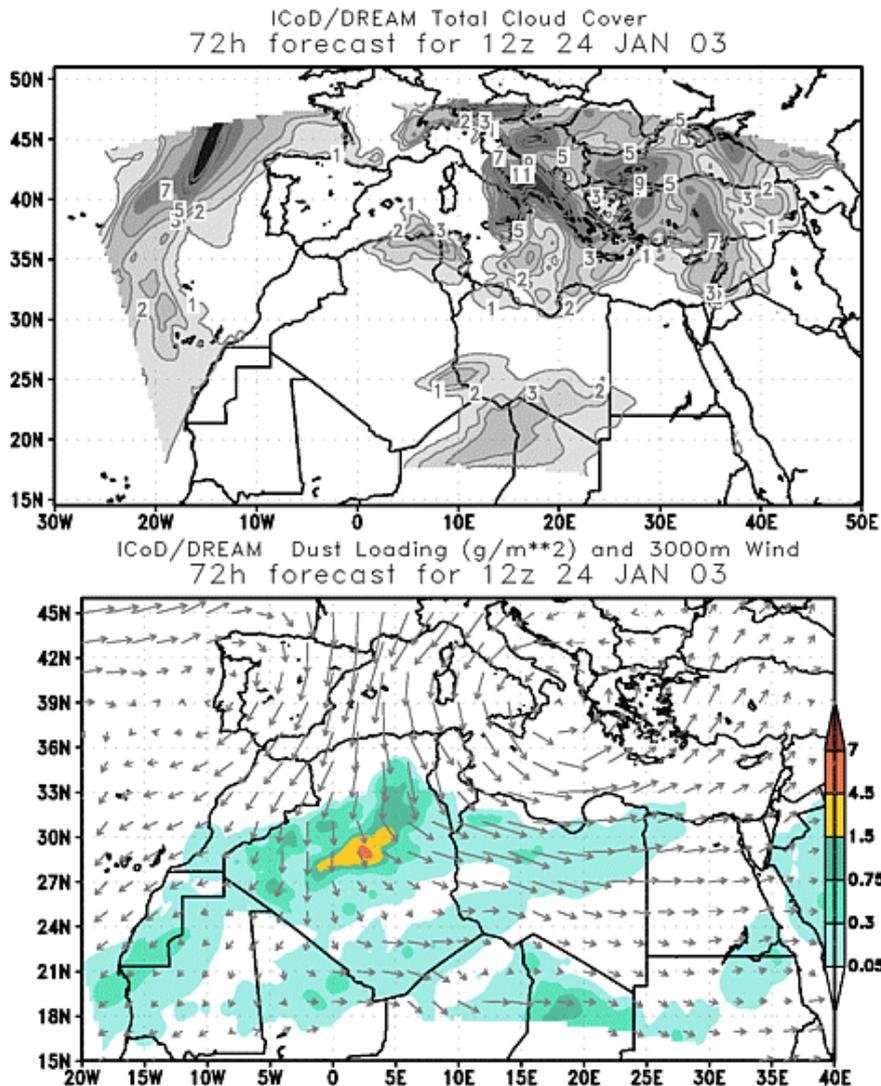
**Forecast for MEIDEX**

Date: 22 Jan 2003

**General:** The "Tunisian" cyclone yielded yesterday, 22 Jan 2003, 81 mm of rain within 3 hours!!! The "Yoav" cyclone is organizing itself and is expected to deepen and stay near Italy for the next 3 to 4 days. This may result in cloudiness typical to a warm front over Crete, with a chance of having dust, mainly to the east of Crete around 24 Jan.

**Weather over Crete:** 22 Jan - stratified clouds, mainly high-medium will approach the region from west, with a chance of light rains in the evening. Visibility - moderate.

Two forecast models do not show any dust plumes over the Mediterranean or over the Atlantic for 22 and 23 Jan. One model shows a chance of a small dust plume near east Lybia, combined with a "hole" in the cloudiness.

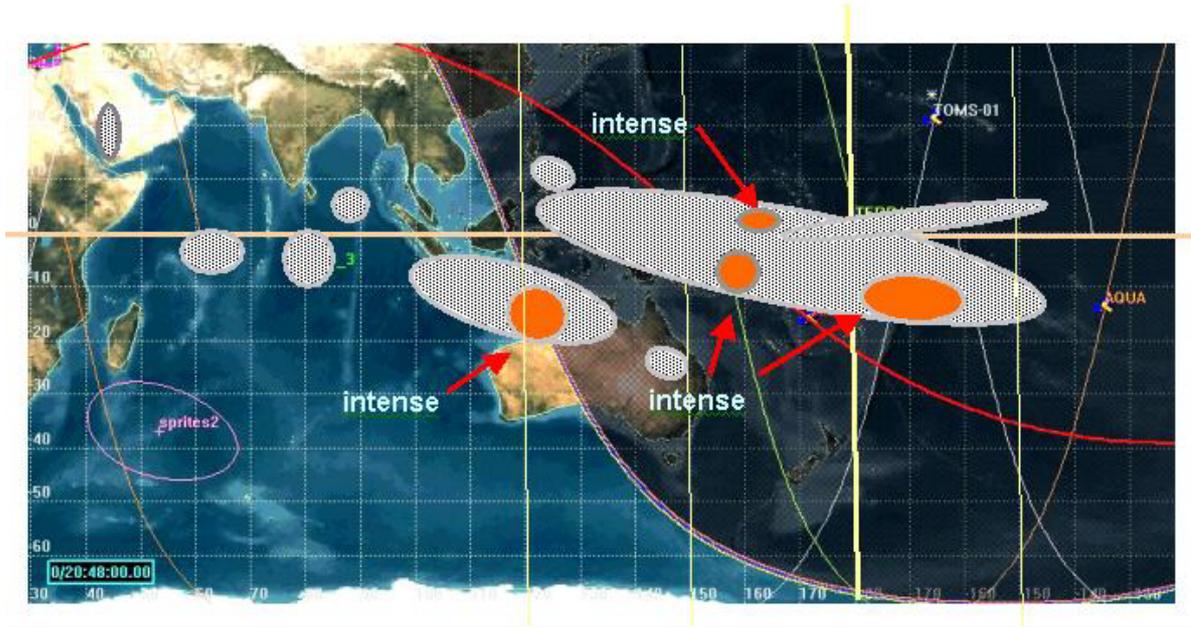


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Sprite forecast for 22 Jan 2003 12 UTC



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In thanks for the great contributions to MEIDEX that you have made this flight, Joachim “Yoya” Joseph plans to periodically send up some small tributes and humor to brighten your day. The first installment is dedicated to Dave.

**A Pseudo Limerick on a Man named Dave**

There is a good man named Dave  
Who to get to space his all gave.  
He hunts for Sprites but catches Elves  
Which just want to be alone and by themselves.  
He sets them all up in good order  
And immortalizes them with his video recorder.

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**FD08 Operations Message – Red Team**

**MX Playback:** None

**MX XFERS:** 07/02:55

**Standalone Door Ops:** 07/00:35 (Open)

07/01:30 (Close)

**Digital TV Instructions:** None

**Special Instructions:**

- 1) For FD08, there were so many changes to the T times on your shift operations that we sent up one message for the Blue team and one for you. The weather forecast and special instructions are duplicated in each message.
- 2) We have concluded that leaving AUTOTLM enabled on the PGSC should not have any impact on our telemetry sync problems when the POCC is in control. As such, we will no longer be asking you to disable AUTOTLM prior to our POCC taking over control.
- 3) Once again, you can expect to see some of the Sprite attitudes modified from the pre-mission wake viewing orientation to capture activity outside of the orbit track.
- 4) Please continue to keep your eye on the Xybian temperature. It seems that the heat generated by the truss motors is a factor in the rapid heating during Sprite activities. Please don't stop moving the truss (this is critical for catching science!) but keep your eye out for the 40 deg limit. We will continue to deactivate the camera in between observations as the timeline allows. If you notice that the camera reaches 40 deg during any of your ops, we would like you to immediately deactivate it via MEIDEX CLOSEOUT Step 3 (PLOPS, 1-79).

**MSG 104B - RED FD08 MEIDEX OPS**

1 **Orbit #110**  
 2 Observation type: Sea Surface (Mediterranean)  
 3 Attitude: nose forward  
 4 Airplane Support: Yes  
 5 Video: Live SSV; Recorded on V10 #1 and #2  
 6 Special Instructions: No dust expected. If cloud coverage >~25%, do NOT record in PLD VCR.  
 7 Continue recording in crew cabin only. Orbit may pass over land and sea:  
 8 stop PLD VCR recording during extended periods over land.  
 9 **Violations: None**

Start	Procedure	Instructions	R/NR	CMD	Notes
06/19:10	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
06/19:15	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 6 (Truss Pntg Config)	REQ	POCC	<b>Truss = -10</b>
06/19:25	MEIDEX SCIENCE	<b>Step 1 (Xyb Pwr Check)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 2 (Xyb T/D Check)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 3 (Door Open)</b>	<b>REQ</b>	<b>Crew</b>	<b>NLT 06/19:38</b>
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		<b>Step 5 (Mon 2 Checks)</b>	<b>REQ</b>	<b>Crew</b>	<b>Setup = ROI</b>
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		<b>Step 7 (In Cabin Record)</b>	<b>REQ</b>	<b>Crew</b>	<b>No Downlink</b>
		<b>Step 8 (PLD VCR act)</b>	<b>REQ</b>	<b>Crew</b>	<b>VCR = 2</b>
06/19:43	T Time	Step 9 (Observation)	REQ	Crew	Do not record on PLD VCRs during extended periods over land
06/19:50	MEIDEX SCIENCE	<b>Step 10 (PLD VCR Stop)</b>	<b>REQ</b>	<b>Crew</b>	<b>NLT 06/19:51</b>
		<b>Step 11 (In Cabin Stop)</b>	<b>REQ</b>	<b>Crew</b>	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (PLD VCR Swap)	NR	--	
		<b>Step 15 (Status Check)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 16 (Truss Reconfig)</b>	<b>REQ</b>	<b>Crew</b>	

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**MSG 104B - RED FD08 MEIDEX OPS**

- 1 **Orbit # 110**
- 2 Observation type: Sprite
- 3 Storm Center: Three activity areas – 15S/120E, 10S/160E, and 10S/170W.
- 4 Video: Live Analog Downlink; Recorded on V10 #1 and #2
- 5 Special Instructions: Due to the anticipated location of the activity, planned Sprite attitude for this
- 6 orbit will be rotated 85 deg to the north.
- 7 **Violations: None**
- 8

Start	Procedure	Instructions	R/NR	CMD	Notes
06/20:10	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	REQ	Crew	Setup = Sprite
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = Sprite
		Step 6 (Truss Pntg Config)	NR	--	
		Step 7 (In Cabin Record)	REQ	Crew	Analog Dnlk
		Step 8 (PLD VCR act)	NR	--	
06/20:23	T Time	Step 9 (Observation)	REQ	Crew	Maneuver truss as reqd to track storms
06/20:45	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	REQ	Crew	
		Step 13 (Door Close)	REQ	Crew	NLT 06/21:07
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
06/21:00	MX CLOSEOUT	Steps 1-4	REQ	POCC	

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**MSG 104B - RED FD08 MEIDEX OPS**

1 **Orbit # 112**  
 2 Observation type: Sprite  
 3 Storm Center: Three activity areas – 15S/120E, 10S/160E, and 10S/170W.  
 4 Video: Live Analog Downlink; Recorded on V10 #1 and #2  
 5 Special Instructions: Due to the anticipated location of the activity, planned Sprite attitude for this  
 6 orbit will be rotated 85 deg to the north.  
 7 **Violations: RAM at 23:56**  
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Start	Procedure	Instructions	R/NR	CMD	Notes
06/21:55	MEIDEX SETUP	Step 1 (Timer Setup)	REQ	Crew	
		Step 2 (PTV Check)	REQ	Crew	
		Step 3 (Tape Verification)	REQ	Crew	
06/22:20	MEIDEX SETUP	Step 4 (TLM Config)	REQ	POCC	
		Step 5 (Event Log Config)	REQ	POCC	
		Step 6 (PLD VCR Act.)	NR	--	
		Step 7 (Sekai Activation)	REQ	POCC	
06/22:40	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
06/22:50	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Sprite
06/23:05	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	REQ	Crew	
		Step 2 (Xyb T/D Check)	REQ	Crew	
		Step 3 (Door Open)	REQ	Crew	NLT 06/23:18
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	REQ	Crew	Setup = Sprite
		Step 6 (Truss Pntg Config)	NR	--	
		Step 7 (In Cabin Record)	REQ	Crew	Analog Dnlk
		Step 8 (PLD VCR act)	NR	--	
06/23:23	T Time	Step 9 (Observation)	REQ	Crew	Maneuver truss as reqd to track storms
06/23:45	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		Step 11 (In Cabin Stop)	REQ	Crew	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	REQ	Crew	NLT 06/23:54
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	
06/23:56	RAM Violation	Door must be closed			
07/00:00	MX CLOSEOUT	Setp 3 (Xybion Deact)	REQ	POCC	

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**MSG 104B - RED FD08 MEIDEX OPS**

1 **Orbit # 113**

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3 Observation type: Sprite

4 Storm Center: Three activity areas – 15S/120E, 10S/160E, and 10S/170W.

5 Video: Live SSV; Recorded on V10 #1 and #2

6 Special Instructions: Ground Commanded Observation. Crew required for door ops and to turn  
7 Recorder ON/OFF. Due to the anticipated location of the activity, planned  
8 Sprite attitude for this orbit will be rotated 85 deg to the north.

9 **Violations: None**

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Start	Procedure	Instructions	R/NR	CMD	Notes
07/00:35	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
07/00:40	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	NR	--	
		Step 2 (Xyb T/D Check)	NR	--	
		Step 3 (Door Open)	NR	--	See below
		Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Sprite
		Step 5 (Mon 2 Checks)	NR	--	
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = TBD
		Step 7 (In Cabin Record)	NR	--	See below
		Step 8 (PLD VCR act)	NR	--	
07/00:35	MEIDEX SCIENCE	<b>Step 3 (Door Open)</b>	<b>REQ</b>	<b>Crew</b>	<b>NET 07/00:35</b>
		<b>Step 7 (In Cabin Record)</b>	<b>REQ</b>	<b>Crew</b>	<b>No Downlink</b>
07/00:53	T Time	Step 9 (Observation)	REQ	POCC	Maneuver truss as reqd to track storms
07/01:15	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		Step 11 (In Cabin Stop)	NR	--	See below
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	See below
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
07/01:30	MEIDEX SCIENCE	<b>Step 11 (In Cabin Stop)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 13 (Door Close)</b>	<b>REQ</b>	<b>Crew</b>	<b>NLT 07/01:35</b>
07/01:30	MX CLOSEOUT	Step 3 (Xybion Deact)	REQ	POCC	

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**MSG 104B - RED FD08 MEIDEX OPS**

1 **Orbit # 114**  
 2 Observation type: Sprite  
 3 Storm Center: Three activity areas – 15S/120E, 10S/160E, and 10S/170W.  
 4 Video: Live SSV; Recorded on V10 #1 and #2  
 5 Special Instructions: This pass does not pass near any of the above noted active areas, so please  
 6 keep your eyes open for any lightning activity you may see. We'll be in the  
 7 original Wake viewing attitude for this observation.  
 8 **Violations: None**  
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Start	Procedure	Instructions	R/NR	CMD	Notes
07/01:50	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
07/01:55	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Sprite
07/02:10	MEIDEX SCIENCE	<b>Step 1 (Xyb Pwr Check)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 2 (Xyb T/D Check)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 3 (Door Open)</b>	<b>REQ</b>	<b>Crew</b>	<b>NLT 07/02:13</b>
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		<b>Step 5 (Mon 2 Checks)</b>	<b>REQ</b>	<b>Crew</b>	<b>Setup = Sprite</b>
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		<b>Step 7 (In Cabin Record)</b>	<b>REQ</b>	<b>Crew</b>	<b>No Downlink</b>
		Step 8 (PLD VCR act)	NR	--	
07/02:23	T Time	<b>Step 9 (Observation)</b>	<b>REQ</b>	<b>Crew</b>	<b>Maneuver truss as reqd to track storms</b>
07/02:35	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	NR	--	
		<b>Step 11 (In Cabin Stop)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 12 (PTV PWRDN)</b>	<b>REQ</b>	<b>Crew</b>	
		<b>Step 13 (Door Close)</b>	<b>REQ</b>	<b>Crew</b>	<b>NLT 07/02:40</b>
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
07/02:40	MX CLOSEOUT	Steps 1-4	REQ	POCC	
07/02:55	MX CLOSEOUT	<b>Step 5 (File Transfer)</b>	<b>REQ</b>	<b>Crew</b>	
07/03:05	MX PGSC SETUP	<b>Step 5 (MX Tlm Config)</b>	<b>REQ</b>	<b>Crew</b>	

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