Forecast for MEIDEX

General: "Yoav" cyclone crossed Crete eastward, and on 27 Jan will cover the eastern Mediterranean (see below). The first (inactive) cold front crosses Israel these hours, denoting the transition to southwesterly flow over the region, with implied increasing dust loading. The rain over the center of the country will await for the 28 Jan afternoon.

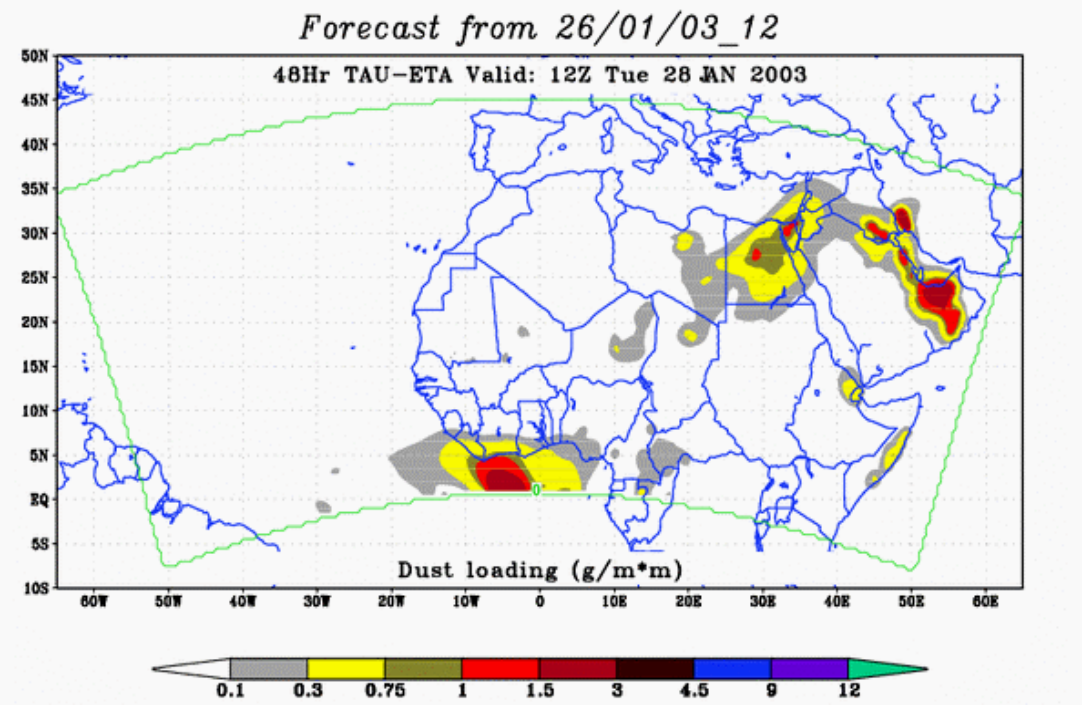
Weather over Israel:

27 Jan - Cloudiness: partly cloudy north of Tel Aviv region, clear to the south, including southeastern Med. Dust: moderate haze, becoming heavier during the day hours.

28 Jan - the dust will become thicker, but more cloudiness will cover the region, including southeastern Med.

Atlantic: The plume along 5N is seen in Tel aviv model for 27 and 28 Jan, extending down to 20W.

Dust loading for 28 Jan 2003, Tel Aviv model
Shows thick plume over the E-Med and over the Atlantic, along 5N, down to 20W.



Yoya's Message: A tribute to Laurel …

To a lady and a Doctor,

There is an astronaut lady far up in space,
Carrying out experiments with diligence and grace.
She keeps testing her friends,
To reach medicine's ends.
Her family is waiting for her return,
Expecting time with her to burn.

FD13 Operations Message

MX Playback: May be requested for Red FD13
MX XFERS: To be scheduled for Red FD13
MX PGSC Setup (sts 5-6): To be scheduled for Red FD13
Standalone Door Ops: Door Close – 11/13:25 (prior to simo dump init)
Digital TV Instructions: Digital TV will be requested for ground commanded ops when the link is available. Necessary callouts will be scheduled on Red FD13.

Special Instructions:

1) 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.

2) Please note we will be switching to VCR1 following our first observation of the day.

3) Later today we will have the opportunity to perform a unique observation over North Brazil of the atmospheric residue from some huge man-made fires that will be monitored from research aircrafts and the Terra satellite (ASTER and MODIS are an instruments on board Terra). This observation will be ground commanded.

4) As long as we remain in the bay to earth attitude, we plan to try to leave the MEIDEX door open as much as possible, so we will be scheduling some calls for independent door ops. Believe it or not, there seems to be some extra Ku that no one is using. We'll leave the Sekai on and take advantage of extra video whenever we can get the link. If providence favors us and we get some good dust or sea surfaces we'll power up the Xybion via ground command and record (regardless of where we are geographically).

MSG 180A - BLUE FD13 MEIDEX OPS

Orbit # 188

Observation type: Dust (Mediterranean)
Dust plume width: minor dust is expected with width of 200 km, near the coast of Israel
Dust Plume Location: 32N/32E, 10 deg N of groundtrack
Airplane Support: Yes
Video: Live SSV; Recorded on V10 #1 and V10 #2
Special Instructions: None
Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
11/15:50	MEIDEX SETUP	Step 4 (TLM Config)	REQ	POCC	
		Step 5 (Event Log Config)	REQ	POCC	
		Step 6 (PLD VCR Act.)	REQ	POCC	VCR = 2
		Step 7 (Sekai Activation)	REQ	POCC	
11/16:00	**MEIDEX SETUP**	**Step 1 (Timer Setup)**	**REQ**	**Crew**	
		Step 2 (PTV Check)	**REQ**	**Crew**	
		Step 3 (Tape Verification)	**REQ**	**Crew**	
	MX PGSC Reboot	**Reference Msg 149**	**REQ**	**Crew**	
11/16:05	XYBION ACTIVATION	Step 1 (Xybion Activation)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
11/16:10	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = +10
11/16:20	**MEIDEX SCIENCE**	**Step 1 (Xyb Pwr Check)**	**REQ**	**Crew**	
		Step 2 (Xyb T/D Check)	**REQ**	**Crew**	
		Step 3 (Door Open)	**REQ**	**Crew**	
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	**REQ**	**Crew**	**Setup = ROI**
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	**REQ**	**Crew**	**No downlink**
		Step 8 (PLD VCR act)	**REQ**	**Crew**	**VCR = 2**
11/16:30	**T Time**	**Step 9 (Observation)**	**REQ**	**Crew**	**Mnvr truss as reqd to point towards dust**
11/16:40	**MEIDEX SCIENCE**	**Step 10 (PLD VCR Stop)**	**REQ**	**Crew**	**NLT 11/16:41**
		Step 11 (In Cabin Stop)	**REQ**	**Crew**	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (VCR Stat Check)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	

Orbit # 189

Observation type: Dust (Mediterranean/Desert Cal)
Mediterranean ROI: 11/18:04 – 11/18:08
Desert TCA: 11/18:10
Dust plume width: no dust expected for this orbit
Airplane Support: None
Video: Live SSV, Recorded on V10 #1 and V10 #2
Special Instructions: Following Dust pass we will conduct a desert calibration. TCA for the desert cal is 11/18:10. If you maneuver to track dust during the dust pass, we will need you to return the truss to 0 prior to the desert cal. Also note that we are using VCR 1 on this pass.

Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
11/17:45	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = 0
11/17:55	**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)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	**REQ**	**Crew**	**Setup = ROI**
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	**REQ**	**Crew**	**Analog Dnlk**
		Step 8 (PLD VCR act)	**REQ**	**Crew**	**VCR = 1**
11/18:04	**T Time**	**Step 9 (Observation)**	**REQ**	**Crew**	**Mnvr truss as reqd to point towards dust** **By 18:08, return truss to 0 for Desert Cal**
11/18:08	**MEIDEX SCIENCE**	**Step 6 (Truss Pntg Config)**	**REQ**	**Crew**	**√Truss = 0**
11/18:12	**MEIDEX SCIENCE**	**Step 10 (PLD VCR Stop)**	**REQ**	**Crew**	**NLT 11/18:13**
		Step 11 (In Cabin Stop)	**REQ**	**Crew**	
		Step 12 (PTV PWRDN)	**REQ**	**Crew**	
		Step 13 (Door Close)	NR	--	
		Step 14 (VCR Stat Check)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	
11/18:15	MX CLOSEOUT	Step 3 (Xybion Deact)	REQ	POCC	

MSG 180A - BLUE FD13 MEIDEX OPS

Orbit # 191

Observation type: Dust (Atlantic)
Dust plume width: 400 km medium plume
Dust Plume Location: 30 deg S of groundtrack at 0N/5W.
Video: Live SSV
Special Instructions: Ground commanded observation.
Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
11/20:50	XYBION ACTIVATION	Step 1 (Xybion Activation)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
11/20:55	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	NR	--	
		Step 2 (Xyb T/D Check)	NR	--	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 5 (Mon 2 Checks)	NR	--	
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = -22
		Step 7 (In Cabin Record)	NR	--	
		Step 8 (PLD VCR act)	REQ	POCC	VCR = 1
11/21:18	T Time	Step 9 (Observation)	REQ	POCC	
11/21:23	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	POCC	NLT 11/21:24
		Step 11 (In Cabin Stop)	NR	--	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (VCR Stat Check)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	

Orbit # 192

Observation type: Dust (Atlantic)
Dust plume width: 400 km medium plume
Dust Plume Location: 30 deg N of groundtrack at 0N/5W
Video: Live SSV
Special Instructions: Ground commanded observation.
Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
11/22:20	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	NR	--	
		Step 2 (Xyb T/D Check)	NR	--	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 5 (Mon 2 Checks)	NR	--	
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = +22
		Step 7 (In Cabin Record)	NR	--	
		Step 8 (PLD VCR act)	REQ	POCC	VCR = 1
11/22:44	T Time	Step 9 (Observation)	REQ	POCC	
11/22:54	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	POCC	NLT 11/22:55
		Step 11 (In Cabin Stop)	NR	--	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (VCR Stat Check)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	

MSG 180A - BLUE FD13 MEIDEX OPS

Orbit # 193

Observation type: Dust (Atlantic)
Dust plume width: unknown for this orbit
Dust Plume Location: minor plume at 20 Deg. S of ground track, off the coast of S. America
Airplane Support: No
Video: Live SSV
Special Instructions: Ground commanded observation.
Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
11/23:40	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	NR	--	
		Step 2 (Xyb T/D Check)	NR	--	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 5 (Mon 2 Checks)	NR	--	
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = -20
		Step 7 (In Cabin Record)	NR	--	
		Step 8 (PLD VCR act)	REQ	POCC	VCR = 1
12/00:21	T Time	Step 9 (Observation)	REQ	POCC	
12/00:26	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	POCC	NLT 12/00:27
		Step 11 (In Cabin Stop)	NR	--	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	
		Step 14 (VCR Stat Check)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	

Orbit # 194

Observation type: Fire (Brazil)
Video: Live SSV
Special Instructions: Ground commanded observation.
Violations: None

Start	Procedure	Instructions	R/NR	CMD	Notes
12/01:33	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	NR	--	
		Step 2 (Xyb T/D Check)	NR	--	
		Step 3 (Door Open)	NR	--	
		Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 5 (Mon 2 Checks)	NR	--	
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = as reqd
		Step 7 (In Cabin Record)	NR	--	
		Step 8 (PLD VCR act)	REQ	POCC	VCR = 1
12/01:48	T Time	Step 9 (Observation)	REQ	POCC	
12/01:55	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	POCC	NLT 12/01:56
		Step 11 (In Cabin Stop)	NR	--	
		Step 12 (PTV PWRDN)	NR	--	
		Step 13 (Door Close)	NR	--	Door will remain open to allow earth viewing measurements of opportunity
		Step 14 (VCR Stat Check)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	
12/02:00	MX CLOSEOUT	Step 1 (PLD VCR Deact)	REQ	POCC	
		Step 2 (Sekai Deact)	NR	--	Leave Sekai ON
		Step 3 (Xybion Deact)	REQ	POCC	
		Step 4 (Truss Reconfig)	NR	--	
Check MCC	**MX CLOSEOUT**	**Step 5 (File Transfer)**	**REQ**	**Crew**	
Check MCC	**MX PGSC SETUP**	**Step 5 (MX TLM Config)**	**REQ**	**Crew**	
		Step 6 (Event Log Config)	**REQ**	**Crew**	