



Islamic Emirate of Afghanistan
Ministry of Transport & Aviation
Afghanistan Meteorological Department
Forecast Division
Satellite General Management



Daily reports of Satellite imagery analysis. Date & Time: 17-09-2026, 07:30 UTC

No	Region	Air Mass	Dust Storm	Thunder storm	Cloud	Fog	Water Vapor	Cyclone & Anticyclone	Jetstream	Comments
1	North	✓	X	X	X	X	✓	X	X	
2	South	✓	✓	X	X	X	✓	X	✓	Dust Storm
3	West	✓	✓	X	X	X	✓	X	X	
4	East	X	X	X	✓	✓	✓	X	X	
5	central	✓	X	X	✓	X	✓	X	X	
6	Northeast	X	X	X	✓	✓	✓	X	X	CTH
7	Southeast	✓	✓	X	✓	X	✓	X	X	
8	Northwest	✓	✓	X	X	X	✓	X	X	
9	Southwest	✓	✓	X	X	X	✓	X	✓	Dust Storm

Details: according to satellite imagery analysis, the southern, central, southeastern, northwestern and southwestern regions have weak warm air mass. The northern, western regions have clod air mass. The southern, western, southern, northwestern and southwestern regions have dust storm. The eastern, central, northeastern and southeastern regions have cloudy sky. The eastern and northeastern regions have Fog. The western, central, southeastern, northwestern regions have weak water vapor, the northern, eastern, northeastern regions have moderate water vapor and the southern, southwestern regions have dry water vapor. The southern and southwestern regions have Jetstream.

Not: ✓(existing phenomena) X (Not existing phenomena)

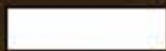
Reported by: Esmatullah Mohammadi

Legend:

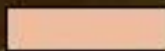
Dust		Water vapor		Air mass		Thunder storm	Cloud	Fog	Jet stream	Cyclone & Anticyclone	
Weak Dust	Dust storm	Weak	Dry	Moderate	Warm	Cold				Cyclon	Anticyclo

UTC: 2026-09-16 19:15

AirMass



Thick,
high-level cloud



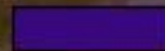
Thick,
mid-level cloud



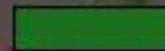
Thick,
low-level cloud



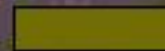
Jet



Cold Airmass



Warm Airmass
(high UTH)



Warm Airmass
(low UTH)

R = WV (6.25) - WV (7.1)

G = IR (8.5) - IR (10.8)

B = WV (6.25)

FY-4B AirMass RGB Composite (From WMO)

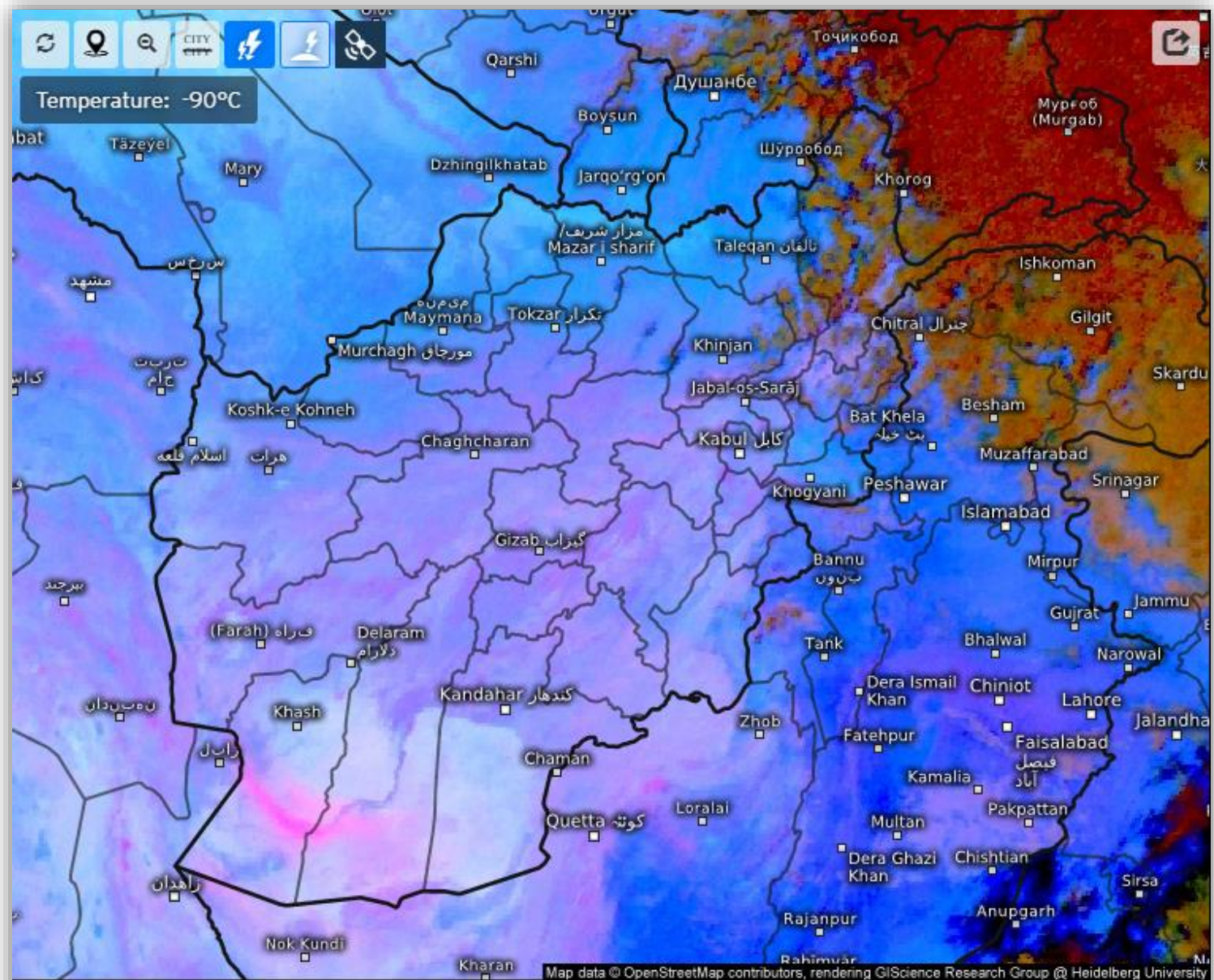
UTC: 2026-09-16 19:15

Dust



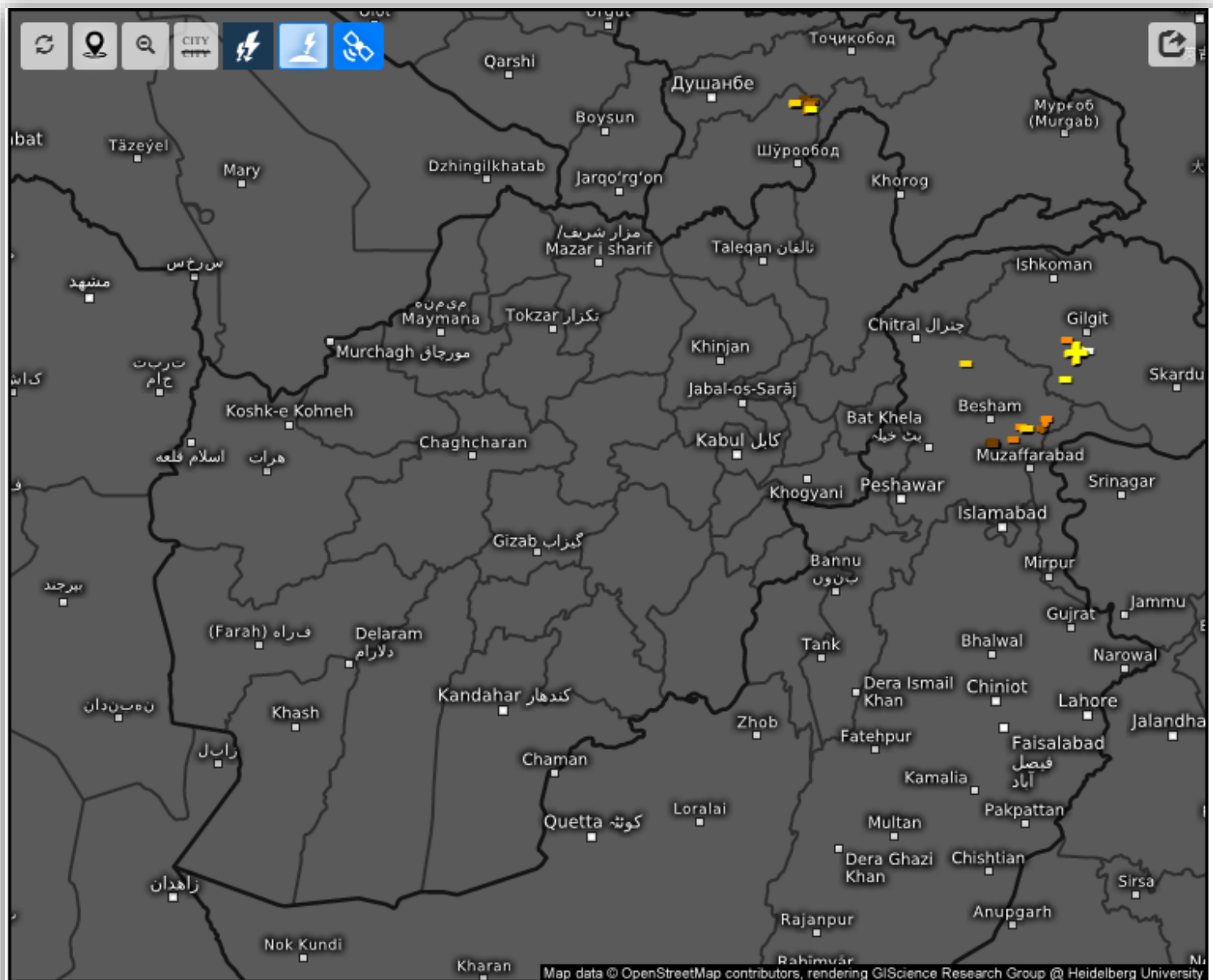
$R = IR(12.0) - IR(10.8)$
 $G = IR(10.8) - IR(8.5)$
 $B = IR(10.8)$

FY-4B Dust RGB Composite (From WMO)



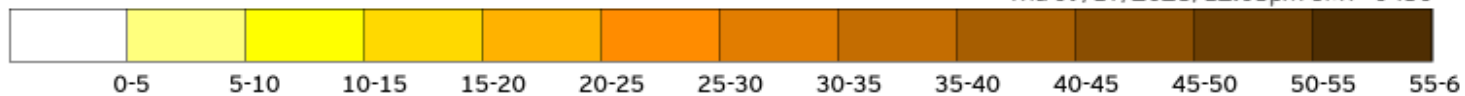
Satellite Dust 

Thu 09/17/2026, 11:45am GMT+0430



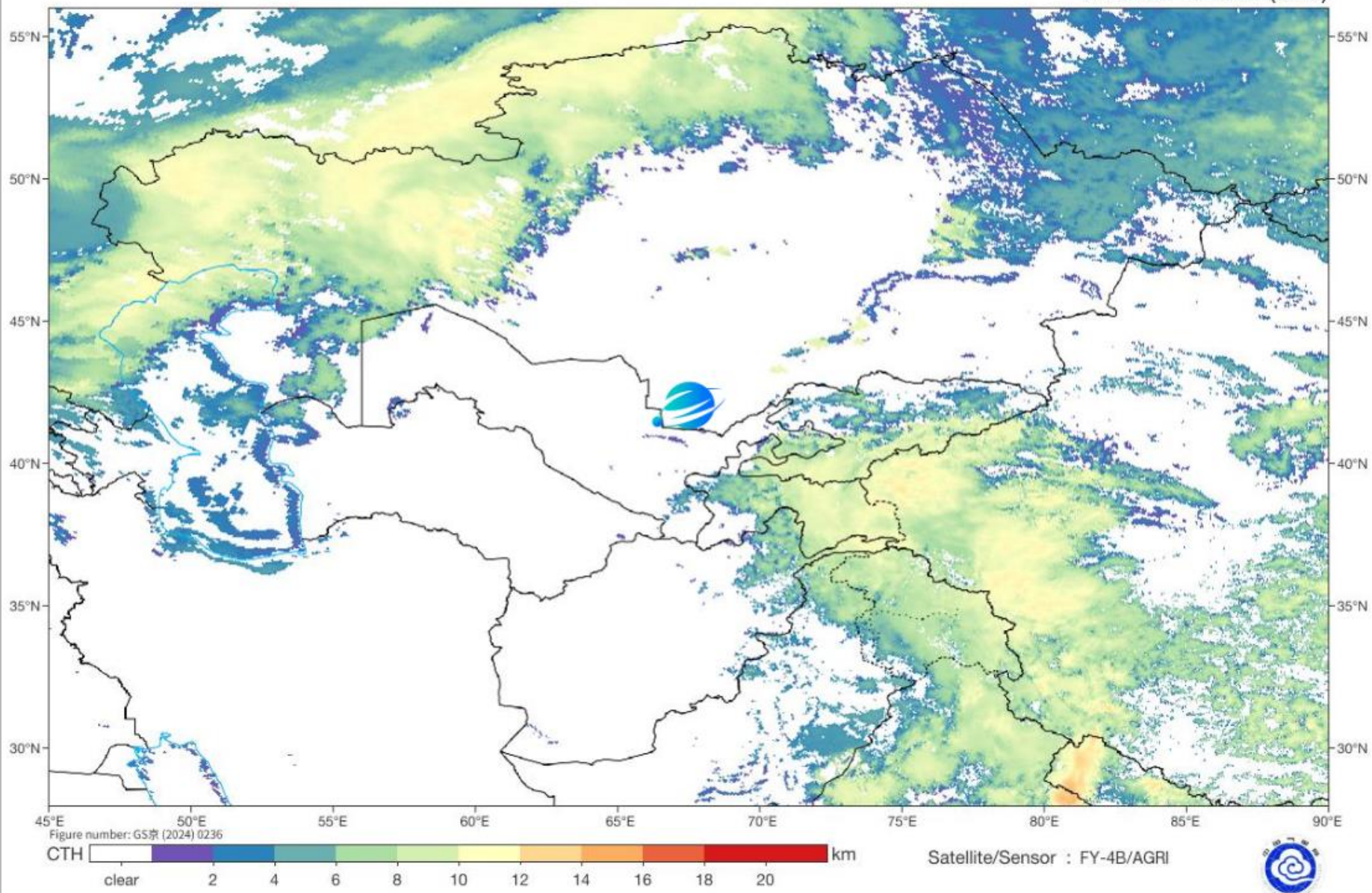
Age of lightning (minutes) 

Thu 09/17/2026, 12:05pm GMT+0430



Cloud Top Height

2026-09-17 07:15(UTC)



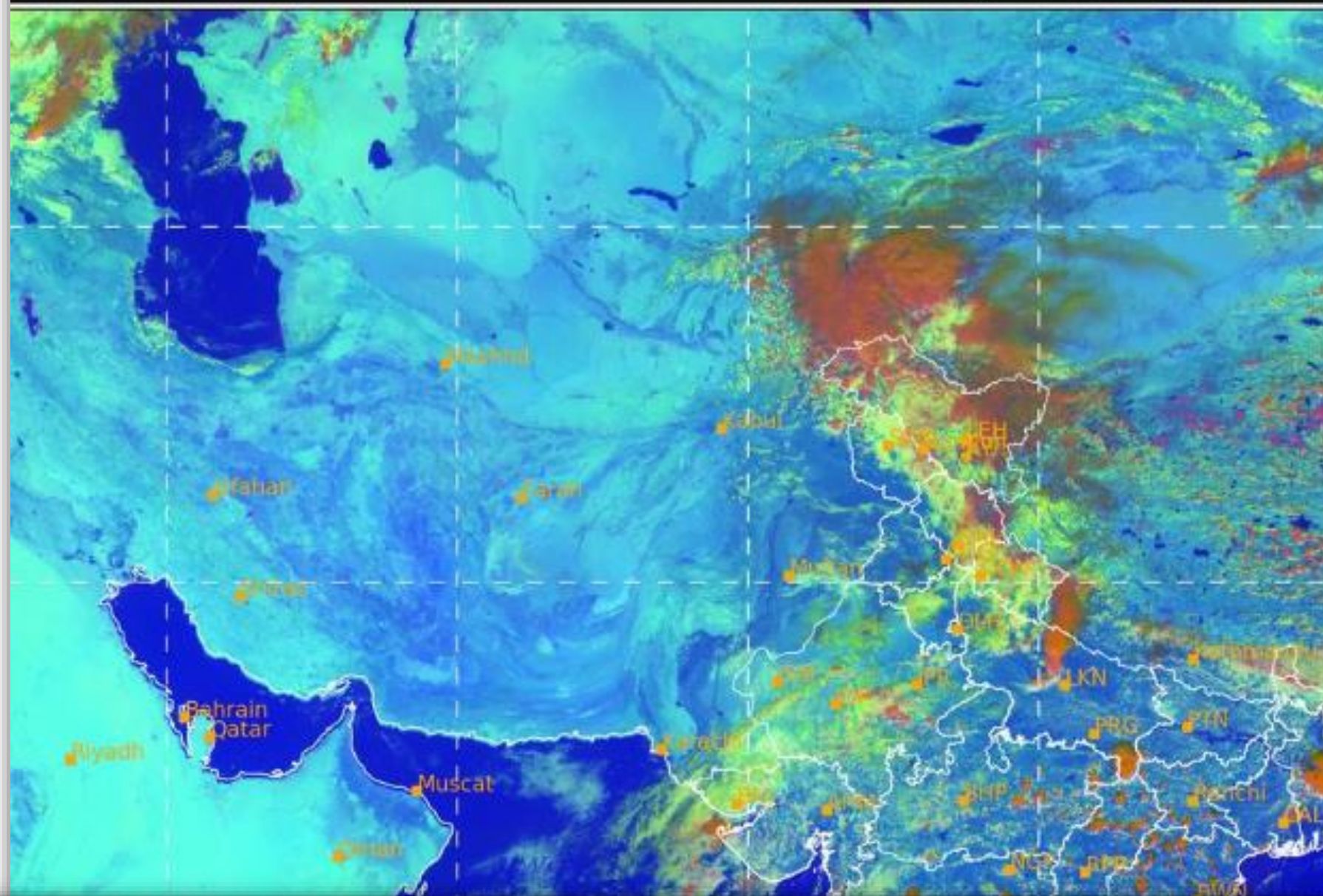
SAT : INSAT-3DR IMG

17-09-2026/(0615 to 0642) GMT

Day Microphysics: VIS_REFL (R), SWIR_REFL (G), TIR1_BT (B)

L1C Mercator

17-09-2026/(1145 to 1212) IST



0

100% 0

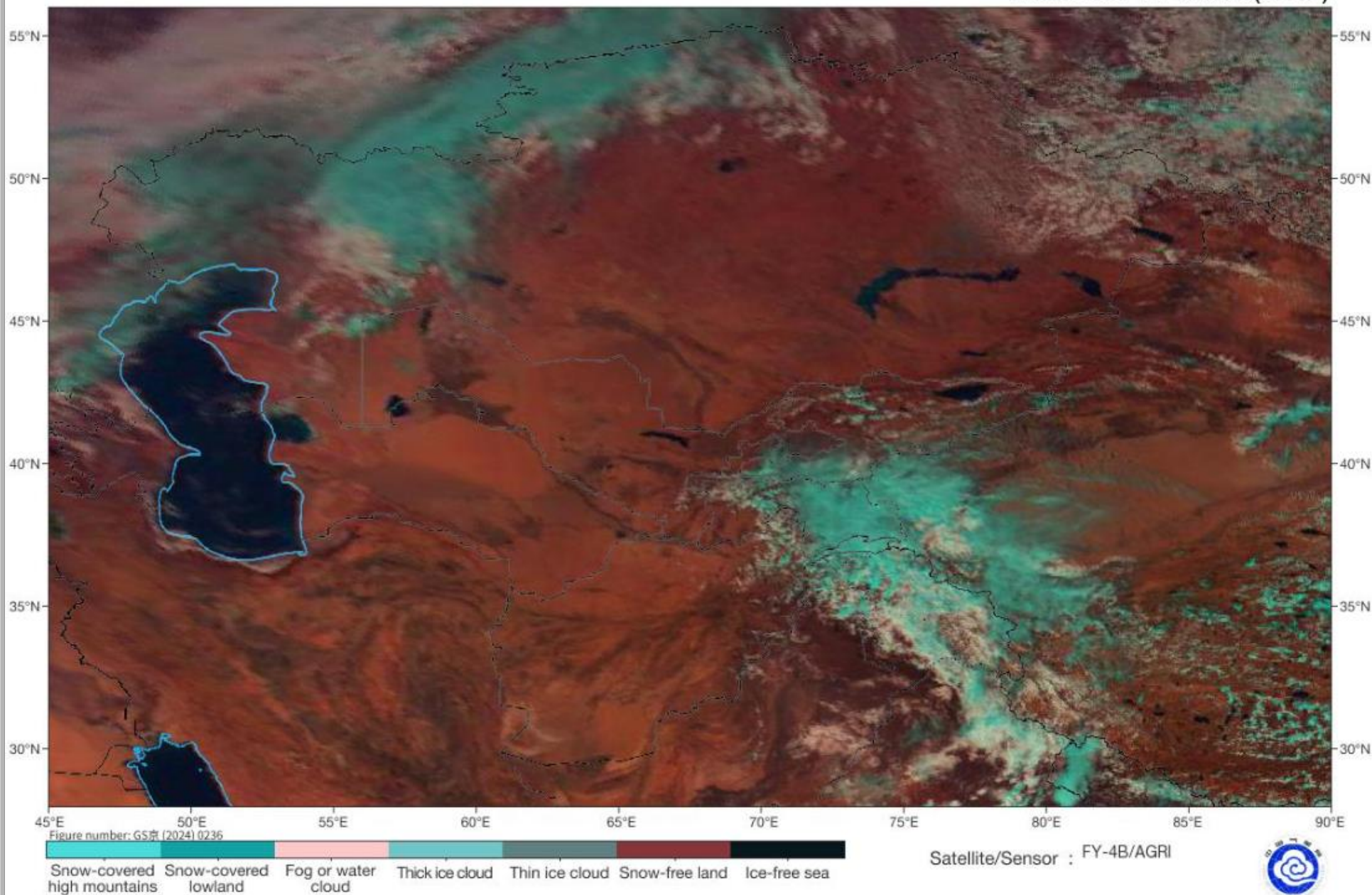
60% 203

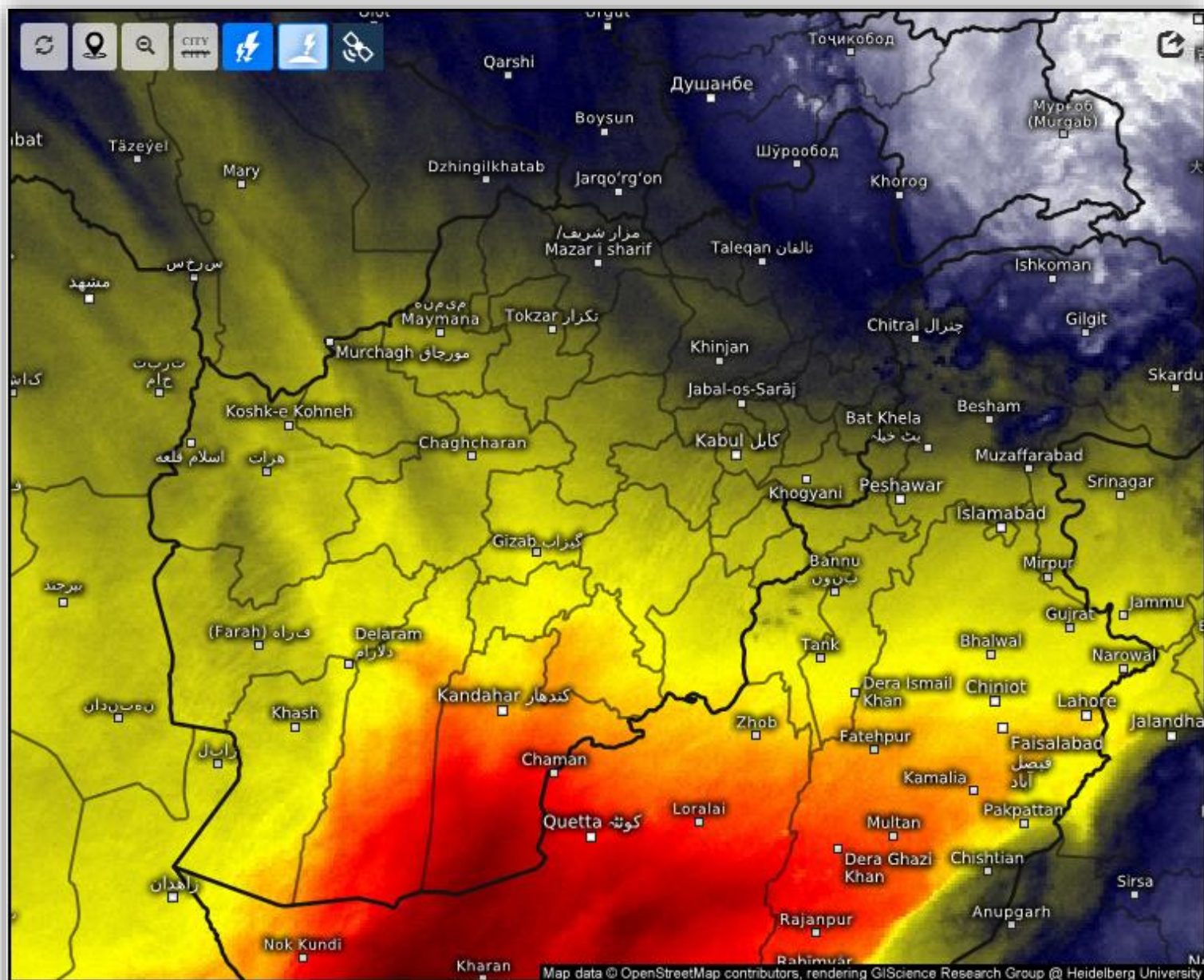
323K

Fog Low Clouds Mid Orographic Cloud CB Snow Dust

Fog Identification

2026-09-17 07:15(UTC)





Satellite Water Vapor

Thu 09/17/2026, 11:45am GMT+0430



wet/cold

dry/warm

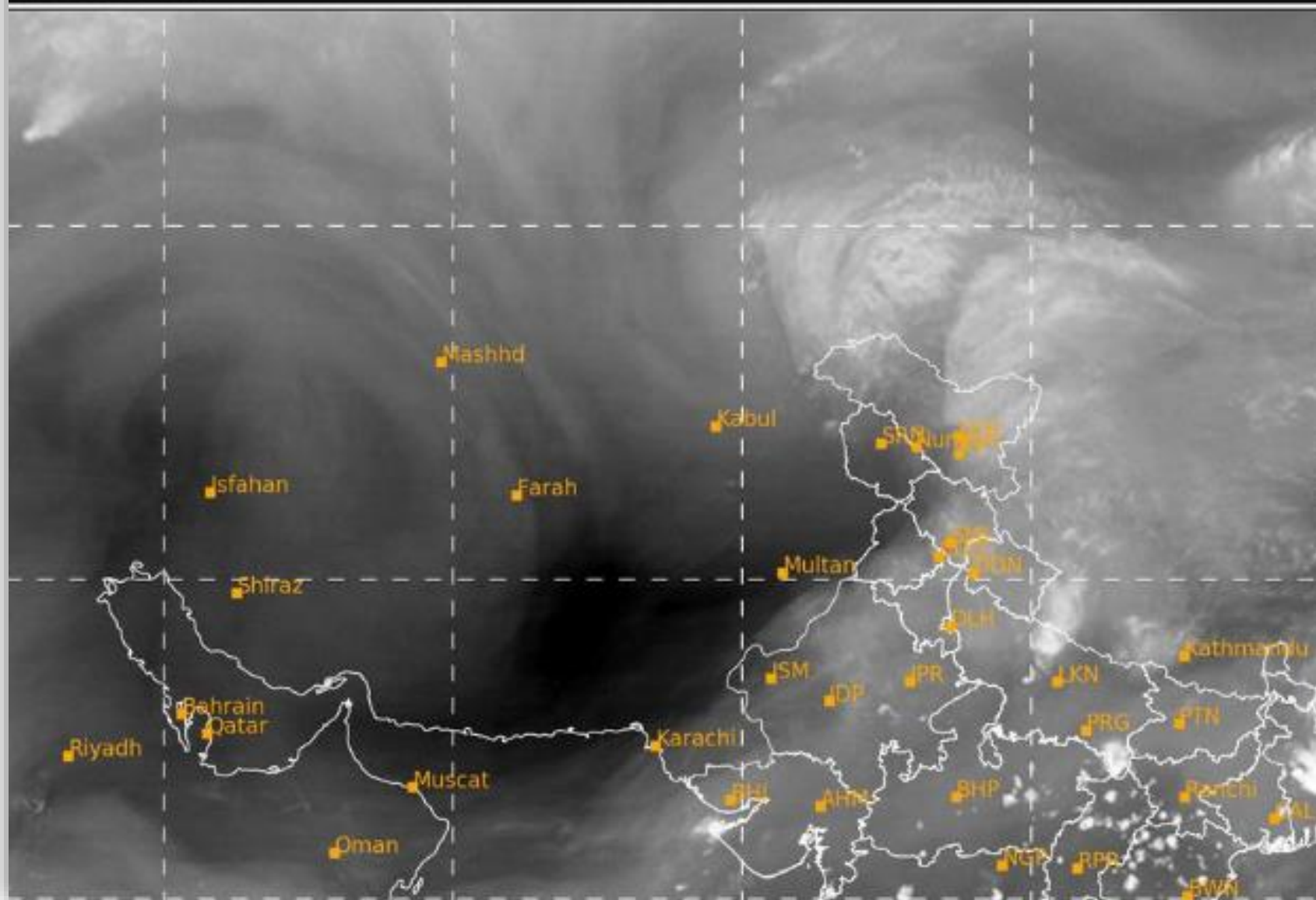
SAT : INSAT-3DR IMG

IMG_WV 6.8 um

L1C Mercator

17-09-2026/(0615 to 0642) GMT

17-09-2026/(1145 to 1212) IST



SAT : INSAT-3DR IMG

IMG_TIR1 10.8 um

L1C Mercator

17-09-2026/(0615 to 0642) GMT

17-09-2026/(1145 to 1212) IST

