

Study of **Atmospheric Forcing and Responses**

A large flock of birds is flying in a wide V-shape across a clear blue sky. The birds are silhouetted against the light background, and their wings are spread, suggesting they are in flight. The V-shape is formed by the birds' positions, with the point of the V at the bottom center of the frame.

Safar*

** a journey through space and time*



A multinational field campaign

Spearheaded by the
Scientists of the

National Atmospheric Research Laboratory
Department of Space :: Govt of India
Gadanki 517112

Why safar?

Our tenuous atmosphere is forced from above and below,
both by natural and anthropogenic activities.

Through carefully planned field experiments
and model studies **safar** will establish the
linkages between the forcing and atmospheric
responses, so as to help in predicting the
future state of our atmosphere.

Study of Atmospheric Forcing and Responses

Safar

- Theme1:** Convective activities in and around Gadanki and their role in STE processes
- Theme2:** Aerosols, radiation and trace gases forcing of the atmosphere
- Theme3:** Impact of forcing on middle atmospheric dynamics
- Theme4:** Upper mesosphere and lower thermospheric response to lower atmospheric forcing

Study of Atmospheric Forcing and Responses

Safar

Methodology:

Intensive field campaign at Gadanki using collocated and complementary techniques

Period: 2008 - 2010

Winter: January-February months

Summer: July-August months