

TIGERZ UPDATE

22-Apr-08

Dear TIGERZ team:

We are making progress. The TIGERZ webpage has much useful information on travel, instruments, participant contact info and among other things the logistics page (<http://tigerz.gsfc.nasa.gov/maps.html>). We are trying a web blog (<http://tigerz.wordpress.com/>) to see if that works out for less important and comments or issues that you think someone may find useful. Please contact Joel if you want to contribute to it otherwise it is read only. I feel that skype will be very useful so if you want your skype name available please send it to Dave to post under contacts.

Aerosol model predictions, measurement sites locations and 'how to' instructions will appear on the TIGERZ webpage in coming days. The measurement site location will be updated for each measurement pass by Joel Schafer. A student will be assigned to each instrument for the duration of the program. The foreign contingent will be rotating through Kanpur in to attend to the ground-based measurement effort but the continuity will be maintained by the Indian student scientists.

Temperatures are in excess of 42°C in the middle of the day so dress accordingly and come prepared to drink fluids. Accommodation will be provided for foreigners. We have a schedule posted on the web, but as changes may occur please alert Dr. Tripathi of your arrival and departure dates to insure that reservations are in order. Transportation and food will also be provided at IIT Kanpur. Book your trains in advance as well and alert Tripathi so that someone will meet you at the train station in Kanpur.

Mikhail Sorokine is currently in Kanpur as our point and repair man. The main equipment shipment is due to arrive tomorrow. All but two of our in track measurements sites have been approved. Tripathi is working both issues hard along with dealing with the aircraft.

Model, satellite and ground-based data will appear on the webpage during the next two weeks. Most of this is already available thru the AERONET Synergy Tool. The lidar will be installed at Kanpur in a week. We need to assess other observations at the primary sites of VSK, Kanpur and Nainital. Handheld sun photometers, a drum sampler and filter samples are also in the mix at or near Kanpur. These will be organized at the beginning of the campaign.

The first overpass will be May 6th. Several camels will be available to move exactly on track to support the near track semi-permanent sites. Google Earth images, GPSs and skilled drivers will team to get us on site early in the mornings. Instructions and protocols will be posted on the web and handouts provided to the mobile teams. A command central will be established in Kanpur for planning and communication.

We will cover as many adjacent tracks as possible and will attempt some lunar photometry. During no track days the mobile units may be used for spatial variability studies and bootstrap studies. Although Kanpur is our core site, Nainital and VSK will also be key for Himalayan and Oceanic studies. We will also have AERONET site in Delhi, Pune, Gandhi College, Lahore, Karachi, EvK2 and NamCo in Tibet. Additionally the MWR network of Dr. Krishnamoorthy is available and likely ship-based sun photometry in the Bay of Bengal. These will be supported by the Kanpur based airborne campaign.

Of the foreigners, Joel will be heavily involved in site selection and coordination, Dave for maintaining the website, Mikhail and Alex for keeping the equipment alive, Wayne and Joel for logistical issues while Eck, Sinyuk and Smirnov philosophize and establish a workable measurement plan. Ilya will maintain the entire processing system of our moving targets data. Amy will keep our blog active and I'll be sweating this out while Rich and Lorraine dodge the real tigers in Dara Dun. Pete thanks so much for maintaining GOCART forecast models between ARCTAS and Jeff for NOGAPS and the drum sampler. S.N. Tripathi is our POC for all AERONET issues related to this campaign. Thanks to Dr. Krishnamoorthy, Dr. CBS Dutt, Dr. S. Babu, Dr.S.K. Satheesh and our respected colleague Dr. Dev Sikka.

Okay TIGERZ Think:

Joint Inversion: AERONET, CALIPSO, PARASOL, MODIS and MISR

Elevated heat pump:

South Asia Dimming:

Aerosol-Cloud interaction:

Aerosol Properties:

Aerosol Indirect effects:

Cheers all,

bh