



**WORKSHOP ON USE OF IONOSPHERIC GNSS SATELLITE DERIVED TOTAL
ELECTRON CONTENT DATA FOR NAVIGATION, IONOSPHERIC AND SPACE
WEATHER RESEARCH**

**the Abdus Salam International Centre for Theoretical Physics
Adriatico Guesthouse
Trieste, Italy
20-24 June 2016**

Preliminary Programme

Monday, June 20, 2016

**Opening, Workshop Review and
Introduction to GNSS and Space Weather**

09:00 Registration and Administrative Formalities
13:00 Lunch
14:00 Opening Introductions and Workshop Review; S. Radicella (ICTP), P. Doherty
(BC, USA), B. Nava (ICTP)
14:30 Introduction to GNSS; P. Doherty (BC, USA)
15:30 Coffee Break
16:00 The Sun-Earth Connection, C. Amory-Mazaudier (ICTP and UPMC, France)
17:00 End

Tuesday, June 21, 2016

TEC for Ionospheric Research; Calibration Techniques

09:00 Satellite derived TEC for Ionospheric Research; S. Radicella (ICTP)
10:00 Coffee Break
10:30 Introduction to Linux and Matlab; J. Grassberger (ICTP)
13:00 Lunch Break
14:00 TEC Calibration Technique; F. Azpilicueta (UNLP, Argentina)
15:00 TEC Calibration Technique; G. K. Seemala (IIG, India)
16:00 Coffee Break
16:30 TEC Calibration Techniques; K. Alazo-Cuartas (ICTP)
17:30 End

Wednesday, June 22, 2016

Calibration Techniques

09:00 Understanding Ionospheric Scintillation Effects on GNSS, R. Pradipta (BC,
USA)
10:00 Coffee Break
10:30 TEC Calibration Laboratory
13:00 Lunch Break
14:00 TEC Calibration laboratory
17:30 End



Thursday, June 23, 2016

Computing Exercises

09:00	Introduction to Equatorial Electrodynamics, E. Yizengaw (BC, USA)
10:00	Coffee Break
11:00	TEC Calibration Laboratory
13:00	Lunch Break
14:00	TEC Calibration Laboratory
17:30	End

Friday, June 24, 2016

Complementary topics

09:00	TEC Calibration in Radio Occultation Data Inversion, B. Nava (ICTP)
10:00	Coffee Break
11:00	Wide-area Networks for Ionospheric Research, R. Pradipta (BC, USA)
11:30	Where to click for Space Weather Resources; E. Yizengaw (BC, USA)
12:00	Open Discussion - All participants (led by B. Nava and E. Yizengaw)
13:00	Lunch Break
14:00	Closing Ceremony and Distribution of Certificates of Completion
15:00	End

Acronyms

BC	Institute of Scientific Research, Boston College
CSU	Colorado State University
ICTP	Telecommunications/ICT for Development Laboratory, the Abdus Salam International Centre for Theoretical Physics
IIG	Indian Institute of Geomagnetism
UNLP	Universidad Nacional de La Plata
UPMC	Université Pierre and Marie Curie