ITSC-17 Programme

Tuesday 13 April 2010
15.00-19.00 Registration

Wednesday 14 April 2010
8:00 Registration (continues to 15:00)

8:30-9.00 Welcome Co-chairs Allen Huang, Stephen English

An Overview Of The NRL Marine Meteorology Division Research Nancy Baker

Local arrangements Nancy Baker, Ben Ruston

Review of agenda Co-chairs

Notes:
Oral presentations are limited to 11 minutes with 4 minutes for questions and 1 minute for handover to next speaker. Chairs are to indicate 2 minutes remaining after 9 minutes, to stand up after 11 minutes and to terminate the presentation after 14 minutes.

Poster presentations are limited to 1 minute, but 2 minutes per presentation is allowed in the programme. Chairs will terminate the poster presentations after 1 minute. It is only to introduce yourself, and say in a few words why people should visit your poster. Powerpoint will not be available

Poster viewing sessions are 30 minutes (<10), 1 hour (10-20), 2 hours (>20).

Clock Master: Ben Ruston
Clock master will coordinate with local hosts, ITSC-17 meeting staffs, ITWG co-chairs and all session chairs to ensure all technical and social events follow the program schedule without delays.

Session 1 Generation and validation of meteorological and environmental products from sounder radiances

9:15-10:19 Session 1 Oral presentations Chairs: Sid-Ahmed Boukabara and Jun Li

1.1 Sid-Ahmed Boukabara Variational Inversion Of Hydrometeors Using Passive Microwave Sensors -Application To AMSU/MHS And SSMIS.

1.2 Jörg Ackermann Validation Aspects Of Present And Future Operational Metop ATOVS/AVHRR Products.

1.3 Pradeep Thapliyal Development Of An Algorithm For The Retrieval Of Atmospheric Profiles From Infrared Sounder Onboard INSAT-3D.

1.4 Lydie Lavanant Towards a better retrieval of fine water vapor atmospheric structures using IASI data.
10:20-10:40 BREAK

10:40-10:54 Session 1 Poster Presentations

Chairs: Sid-Ahmed Boukabara and Jun Li

1.5 Joao Teixeira  Probing Trade-Wind Cumulus Boundary Layers With AIRS.
1.6 Lydie Lavanant  Comparison of MetOp IASI Cloud Products for cloudy radiances assimilation.
1.7 François Faijan  Processing of IASI cloudy heterogeneous scenes using the AVHRR radiances analysis.
1.8 Tony Reale  Demonstration poster for the NESDIS validation system (NPROVS).
1.9 Christopher Down  The Australian Bureau of Meteorology Space-borne Infrared Sounder Validation Project.
1.10 Evan Fishbein  Characterizing sub-footprint variability in AIRS radiances using MODIS.

10:54-11:42 Session 1 Oral presentations

Chairs: Sid-Ahmed Boukabara and Jun Li

1.12 William Blackwell  Hyperspectral Microwave Atmospheric Sounding.
1.13 Lihang Zhou  NPOESS Preparatory Project Validation Program for the Atmospheric Profile Data Products.
1.14 Robert Knuteson  AIRS And IASI Precipitable Water Vapor (PWV) Absolute Accuracy In The Tropics, Mid-Latitudes, And Arctic

11:42-11:56 Session 1 Poster Presentations

Chairs: Sid-Ahmed Boukabara and Jun Li

1.15 Peter Wang  Assessment Of Heavy Rainfall Retrieved From Microwave Instrument In Taiwan Area.
1.16 Paolo Antonelli  Physically based level 2 and 3 products obtained from IASI observations processed with UWPYSRET.
1.17 Devendra Singh  Satellite Application For Fog Detection During Day And Night Time.
1.18 Youri Plokhenko  Physical Aspects Of Non-Linear Analysis And Interpretation Of Hyperspectral Measurements From The AIRS Radiometer.
1.19 Thomas King  The NOAA Unique CrIS/ATMS Product Processing System (NUCAPS).
1.20 Brian Kahn  Multi-Moment Statistics Of Cloud And Moist Conserved Variables From The A-Train.
1.21 Hartmut Aumann  Development Of A Near Real-Time Aviation Alert System Using AIRS, Based On The Analysis Of The Atmospheric Conditions At The Time Of The Air
France 447 Crash Using AIRS, TRMM And IASI Data.

12:00-13:00 Lunch
13:00-13:30 Break

Session 1: Generation and validation of meteorological and environmental products from sounder radiances (continued)

Chairs: Peter Schlüssel and Allen Larar

13:30-14:02 Session 1 Oral presentations

Chairs: Peter Schlüssel and Allen Larar

1.22 Elisabeth Weisz  Updates To The IMAPP AIRS Utility Software.
1.23 Bill Smith  Dual EOF Regression Surface and Atmospheric Variable Specification for Initializing Atmospheric Sounding Physical Retrieval and Direct Radiance Assimilation.

14:02-14:16 Session 1 Poster Presentations

Chairs: Peter Schlüssel and Allen Larar

1.24 Nikita Pougatchev  AIRS v. 5Temperature and Water Vapor retrievals characterization and error assessment.
1.25 Matias Armanini  NOAA-17 Satellite ATOVS Data Advanced TIROS Operational.
1.26 Devendra Singh  Status Of Current And Future Satellite Program And Their Use For Agriculture Application.
1.27 Awdhesh Sharma  Web-based Skew-T displays of GOES and POES operational atmospheric soundings added to the NOAA/NESDIS Operation.
1.28 Liam Gumley  Pre-Launch Evaluation Of NPP/NPOESS VIIRS Atmosphere Environmental Data Records.
1.29 Ashim Mitra  A Neural Network Approach For Temperature Retrieval From AMSU-A Measurements Onboard NOAA-15 And NOAA-16 Satellites And A Case Study During 'Gonu' Cyclone.
1.30 Jeff Puschell  Soundings with Hyperspectral VIIRS

Session 2: Atmospheric chemistry and air quality

14:16-14:22 Session 2 Poster Presentations

Chairs: Thierry Phulpin and Xu Liu

2.1 Manish Sharma  Pronounced Changes In Atmospheric And Meteorological Parameters Using Multi Sensors Data Associated With Jaipur Indian Oil Fire Of 29 October, 2009.

2.2 Zoltan Barcza  Estimation of the carbon balance components of heterogeneous agricultural landscape using tall tower based and remotely sensed data.
2.3 Fiona Hilton  Potential For The Use Of Reconstructed IASI Radiances In The Detection Of Atmospheric Traces Gases.

14:22-15:10 Session 2 Oral Presentations  
Chairs: Thierry Phulpin and Xu Liu
2.4 Alexander Uspensky  Possibilities For Retrieving The Ozone And Trace Gases From Data Of Satellite IR Sounders IRFS-2 With High Spectral Resolution.
2.5 Thierry Phulpin  Major Results Of IASI On Atmospheric Chemistry.
2.6 Anton Kaifel  First Results On Synergistic Ozone Profile Retrieval From GOME-2 And IASI Measurements With NNORSY.

15:10-15:40 Break

15:40-16:44 Session 2 Oral Presentations  
Chairs: Thierry Phulpin and Xu Liu
2.7 Fred Prata  Retrieval Of SO2 From High Spectral Resolution Measurements: IASI And AIRS.
2.8 Wei Han  The Assimilation Of IASI Ozone Channels.
2.9 Sophie Peyridieu  Dust aerosol optical depth and altitude retrieved from 7 years of infrared sounders observations (AIRS, IASI) and comparison with other aerosol datasets (MODIS, CALIOP, PARASOL).
2.10 Hyo-Jin Han  Examining Effect Of Asian Dusts On The AIRS-Measured Radiiances From Radiative Transfer Simulations.

Session 3: Direct Broadcast, preprocessing and calibration of sounder radiances

This session is dedicated to the memory of Hal Woolf.

16:44-17:32 Session 3 Oral presentations  
Chairs: Pascal Brunel and Liam Gumley
3.1 Steve Swadley  SSMIS Radiance Assimilation And Calibration Anomaly Mitigation.
3.2 Richard Kelley  Draft ITU-R Rpt : Identification Of Degradation Due To Interference And Characterization Of Possible Mitigation Techniques For Passive Sensors.
3.3 Lars Fiedler  IASI L0/L1 NRT Monitoring At EUMETSAT: Comparison Of Level 1 Products From IASI And HIRS On Metop-A.

18:00-19:00 Dinner

19:15-21:30 Poster Viewing along with Icebreaker and remembrance of Hal Woolf
19:15-20:00 Hal Woolf Memorial Session
Chairs: Bill Smith, Paul Menzel, John Eyre, Roger Saunders, and Tom Achtor (Participating ITWG Former Co-chairs)

20:00-20:30 Session 3 Poster Presentation
Chairs: Pascal Brunel and Liam Gumley

3.4 Aniko Kern  Real-time processing of Direct Broadcast MODIS data in Hungary.
3.5 Liam Gumley  Virtual Appliance For Terra, Aqua, Metop, And POES Direct Broadcast Processing.
3.6 Kathleen Strabala  IMAPP: Promoting The Knowledge And Use Of Remote Sensing Data.
3.7 Ruiyue Chen  Spectral And Radiometric Calibration Of HIRS Using IASI On Metop Satellite.
3.8 Anna Booton  AAPP Developments For Metop, NOAA-19 And NPP.
3.9 Denise Hagan  Cross-Track Infrared Sounder Pre-Launch Calibration And On-Orbit Validation Plans.
3.10 Christelle Ponsard  Evolution Of The EUMETSAT Advanced Retransmission Service (EARS).
3.11 Richard Kelley  Draft ITU-R Report : Passive Bands Of Interest To EESS/SRS From 275 To 3,000 GHz.
3.12 Vladimir Zavyalov  Using IASI Radiances To Generate Proxy Data Set To Test CrIS SDR Algorithm.
3.13 Yi Song  A BUFR And GRIB Tailoring System For NPP/NPOESS Products.
3.14 Bo-Ra Kim  Use Of IASI Measurements To Calibrate MODIS And AMSU-B Water Vapor Channels.
3.15 Walter Wolf  The Status Of Hyperspectral Product Systems At STAR.
3.16 Jerome Lafeuille  Status and Plans for the Global RARS Network
3.17 B.J. Sohn  Use of cloud targets to examine the calibration status of satellite visible channels: Application to Meteosat-8/9 and MTSAT-1R.

20:30-21:30 Session 1, 2, 3 Poster Viewing

Thursday 15 April 2010
7:30-8:30 Breakfast

Session 4: Atmospheric radiative transfer

08:30-08:38 Session 4 Poster Presentations
Chairs: Paul van Delst and Marco Matricardi

4.1 Jonathan Taylor  IASI 1dvar Using PC Radiative Transfer.
4.2 Paul van Delst  ATMS NPP Preparation In The Community Radiative Transfer Model (CRTM): Spectral Response Function Analysis.
4.3 Allen Huang  High-spectral Resolution Radiative Transfer Model Performance Comparison - CPU vs. GPU.


08:38-09:26 Session 4 Oral Presentations

Chairs: Paul van Delst and Marco Matricardi

4.5 Yong Han  Current Status of the JCSDA Community Radiative Transfer Model (CRTM).

4.6 Roger Saunders  Update On RTTOV Developments.


Session 5: Surface property modelling and sensing

09:26-10:30 Session 5 Oral Presentations

Chairs: Fuzhong Weng and Fatima Karbou

5.1 Eva Borbas  Application Of The UW/CIMSS High Spectral Resolution Global IR Land Surface Emissivity Database Into The RTTOV Model.

5.2 Daniel Zhou  Retrieval of hyperspectrally-resolved surface emissivity and validation.

5.3 Stephanie Guedj  Towards A Better Modeling Of Surface Emissivity To Improve AMSU Data Assimilation Over Antarctica.

5.4 Filipe Aires  A Tool to Estimate Land Surface Emissivities at Microwaves frequencies (TESEM) for use in numerical weather prediction schemes.

10:30-10:50 BREAK

10:50-11:08 Session 5 Poster Presentations

Chairs: Fuzhong Weng and Fatima Karbou

5.5 Paul van Delst  Implementation Of A New Infrared Sea Surface Emissivity Model In The Community Radiative.

5.6 Stephen English  Improved Use Of AIRS, IASI And AMSU-A Over Land.

5.7 Stuart Newman  Sea Ice Emissivities And Effective Temperatures At AMSU-B Frequencies: An Analysis Of Airborne Microwave Data Measured During Two Campaigns.

5.8 Fred Prata  Land Surface Temperature Determination From The ATSR-Family Of Instruments And The Sentinel-3 SLSTR.

5.9 Zhaohui Cheng  Infrared Land Surface Emissivity Regression Retrieval Algorithm.

5.10 Stephanie Guedj  Towards The Assimilation Of SEVIRI Observations Over Land.

5.11 Mark Liu  An Improved Fast Microwave Sea Surface Emissivity Model, FASTEM4.
11:08-12:12 Session 5 Oral Presentations

Chairs: Fuzhong Weng and Fatima Karbou

5.14 Virginie Capelle  Infrared continental surface emissivity spectra and skin temperature retrieved from IASI observations.

5.15 Fuzhong Weng  Improvements In Land Surface Emissivity Models For Community Radiative Transfer Model (CRTM) Applications.

5.16 Ralph Ferraro  Utilization Of Land Surface Emissivity For Precipitation Retrieval – An Obvious Linkage between ITWG and IPWG – and Implications for GPM-era Algorithms.

5.17 Thomas Kleespies  Modeling Of Inhomogeneous Surface Properties For The Advanced Technology Microwave Sounder.

12:12-13:00 Lunch
13:00-13:30 Break

Session 6: Climate studies

Chairs: Roger Saunders and John Bates

13:30-14:18 Session 6 Oral Presentations

Chairs: Roger Saunders and John Bates

6.1 Paul Menzel  Inferring Global Cloud Cover Properties And Trends From Thirty Years Of HIRS Data.

6.2 Antonia Gambacorta  Using Hyperspectral Sounders For Climate Applications.

6.3 John Bates  NOAA'S Climate Data Record Project – An Update of Status and Progress.

Action items from ITSC-16

14:20-15:05 ITSC-16 Action items presented by ITSC-16 WG co-chairs

Note: 15 Minutes each
Moderators: Allen Huang and Stephen English
RT WG (Louis Garand)
Climate WG (Jörg Schulz)
NWP WG (John Derber)

15.05-15:30 BREAK
15:30-16:15 ITSC-16 Action items presented by ITSC-16 WG co-chairs

Moderators: Allen Huang and Stephen English

Note: 15 Minutes each

Advanced IR sounder WG (Andrew Collard)
International and future systems (Jerome Lafeuille)
Satellite sounder science and products (Tony Reale)

16:15-16:55 Technical sub-group reports

Moderators: Allen Huang and Stephen English

Note: 10 Minutes each

ATOVS direct broadcast packages (Liam Gumley)
RTTOV (Roger Saunders)
CRTM (Paul VanDelst)
Frequency protection (Richard Kelley)

16:55-17:30 Working group formation

18:00-19:00 Dinner

19:30-21:00 Session 4 and 5 Poster Viewing

Friday 16 April 2010
7:30-8:30 Breakfast

Session 6: Climate studies

Chairs: Roger Saunders and John Bates

8:30-9:50 Session 6 Oral Presentations

6.4 Tian Baijun: Vertical Moist Thermodynamic Structure Of The MJO In AIRS Observations And ECMWF Interim Reanalysis

6.5 Mitch Goldberg: Using Hyperspectral Infrared Radiance Global Data Sets To Validate Weather And Climate Analyses.


6.8 Thomas Pagano: Natural And Anthropogenic Variability Observed In Seven Years Of Data From The Atmospheric Infrared Sounder (AIRS).

9:50-10:12 Session 6 Poster Presentations

Chairs: Roger Saunders and John Bates


6.10 Roger Saunders: A Consistent Monitoring Of Satellite Radiance Biases For GSICS.
<table>
<thead>
<tr>
<th>6.11 Nathalie Selbach</th>
<th>An Overview Of The Operational Processing At The Satellite Application Facility On Climate Monitoring.</th>
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<tr>
<td>6.12 Mitch Goldberg</td>
<td>Global Space-Based Inter-Calibration System (GSICS) Sensor Intercomparisons And Corrections.</td>
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<td>6.13 Carl Mears</td>
<td>A Monte-Carlo Approach To Estimating Uncertainty In MSU/AMSU Climate Data.</td>
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<td>6.14 Eric Fetzer</td>
<td>Creating Long-Term Water Vapor And Temperature Records With AIRS And Other Data Sources.</td>
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<td>6.16 Martin Stengel</td>
<td>The Intercomparison Of IASI Water Vapour Retrieval Schemes Under Climate Monitoring Aspects.</td>
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<td>6.17 Claudia Stubenrauch</td>
<td>Global Cloud Climatologies from satellite-based InfraRed Sounders (TOVS, AIRS and IASI).</td>
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<td>6.18 Eui-Seok Chung</td>
<td>The Radiative Signature Of Increasing Carbon Dioxide Concentration In HIRS Measurements.</td>
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<td>6.19 Ramesh Singh</td>
<td>Advancing And Retreat Of Himalayan Glaciers Based On The Increasing Trend Of Anthropogenic Activities In The Indo-Gangetic Plains.</td>
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10:12-10:40 BREAK

Session 7: Current use in NWP

10:40-10:58 Session 7 Poster Presentations

**Chairs: John Eyre and Steve Swadley**

- **7.1 Kozo Okamoto**  Recent Developments In Satellite Data Assimilation At JMA.
- **7.2 Stephen English**  Operational Status Report – UK Met Office.
- **7.3 Bjarne Amstrup**  Status Of ATOVS Usage In The DMI-HIRLAM Operational Analyses.
- **7.4 Detlef Pingel**  Use Of Satellite Radiance Data In The Global Meteorological Model Of The German Weather Service (DWD).
- **7.5 Chris Tingwell**  Operational Satellite Data Assimilation In ACCESS.
- **7.6 Yongsang Kim**  The New NWP System At KMA And Its Use Of Satellite Radiance Data.
- **7.7 John Derber**  Progress And Plans For The Use Of Radiance Data In The NCEP Global And Regional Data Assimilation Systems.
- **7.8 Peter Bauer**  Status of satellite data assimilation at ECMWF.
- **7.9 Wei Han**  The Use Of Satellite Data In Chinese New GFS.

10:58-12:02 Session 7 Oral Presentations

**Chairs: John Eyre and Steve Swadley**

- **7.10 Andrew Collard**  An Overview Of The Assimilation Of IASI And AIRS Radiiances At Operational NWP Centres.
- **7.11 Godelieve Deblonde**  Impact Evaluation Of New Radiance Data, Reduced Thinning And Higher Analysis Resolution In The GEM Global Deterministic Prediction System.
7.12 Banghua Yan  Assimilation Study Of Microwave Sensor Water Vapor Sounding Channels In NCEP Global Forecast System.
7.13 Peter Bauer  Impact of increased satellite data density in areas most sensitive to forecast error growth.

12:05-13:00 Lunch
13:00-13:30 Break

13:30-13:52 Session 7 Poster Presentations  
**Chairs: John Eyre and Steve Swadley**
7.14 Andrew Collard  Prospects For The Assimilation Of Advanced Infrared Sounder Radiiances Over Land.
7.15 William Campbell  AMSU-A Bias Correction For COAMPS/NAVDAS.
7.16 Vincent Guidard  Assimilation Of Satellite Data Over Antarctica In The Framework Of The Concordiasi Campaign.
7.17 Vincent Guidard  Evaluation Of IASI Inter-Channel Observation Error Covariances.
7.18 Niels Bormann  Of Chessboards And Ghosts: Signatures Of Micro-Vibrations In IASI Monitoring In NWP?
7.19 Niels Bormann  Assimilation Of NOAA-19 Data - The Pinnacle Of ATOVS Data At ECMWF?
7.21 Brett Candy  Use Of Variable Observation Errors In Radiance Assimilation.
7.22 Brett Candy  Mesospheric Assimilation Studies With SSMIS Channels.
7.23 Roger Randriamampianina  Radiance Single Observation Experiments Using Global And Regional Models.
7.24 Roger Randriamampianina  The relative impact of satellite observations in the HARMONIE/Norway regional model

13:52-14:56 Session 7 Oral Presentations  
**Chairs: Dirceu Herdies and Kozo Okamoto**
7.25 Marc Schwaerz  Assimilation Of IASI Radiances Over Sea And Land Into The Regional NWP Model COSMO-EU.
7.26 Vincent Guidard  Impact Of IASI Data Density In The Assimilation Of A Convective-Scale Model.
7.27 Fatima Karbou  Assimilation Of Low Level Humidity And Temperature Observations From AMSU-A & -B Over Land.
7.28 Marco Marticardi  Preliminary Results Of The Direct Assimilation Of IASI Band 3 Principal Component Scores Into The ECMWF NWP System.

15:00-15:30 BREAK

15:30-15:54 Session 7 Poster Presentations
Chairs: Dirceu Herdies and Kozo Okamoto

7.29 Dirceu Herdies  Impact Of TRMM Precipitation On Regional Analysis Over South America.

7.30 John Le Marshall  Improvements In NWP From Increased Use Of The Information Content Of Ultraspectral Observations.

7.31 Li Bi  Impact Of Satellite Surface Wind Observations On The Tropical Cyclone Track Forecasts In The NRL NAVDAS/COAMPS And NRL NAVDAS-AR/NOGAPS Mesoscale And Global Data Assimilation And NWP Systems.

7.32 Stephen Macpherson  Experiments With Increased Analysis Resolution And Satellite Radiance Data Volume In The GEM Global Deterministic Prediction System.

7.33 Peter Bauer  Direct assimilation of all-sky microwave radiances at ECMWF.

7.34 Luiz Sapucci  The Inclusion Of Humidity Estimates From The AIRS/AMSU Sensor And Brazilian Ground-Based GNSS Network Into The CPTEC/INPE Global Data Assimilation System.

7.35 Alain Beaulne  Experiments With New Data Sources In The GEM Global Deterministic Prediction System.

7.36 Anna Booton  Evaluation Of SSMIS From F-16, F-17 And F-18 And Assimilation Impact Of SSMIS.

7.37 Fatima Karbou  Impact studies towards the use of SSM/I observations over land in the French global model.

7.38 Wei Han  Bias Correction Of Window Channels On Microwave And Infrared Sounders.

7.39 Bill Bell  Plans for the Assimilation of Cloudy Infrared Radiances.

7.40 Jonathan Taylor  Utilisation Of IASI Data In A Cloudy Atmosphere.

16:00-18:00 Session 6 and 7 Poster Viewing

18:00-19:15 Tom Achtor McIDAS Presentation and Demonstration.

Dinner on your own

Saturday 17 April 2010
7:30-8:30 Breakfast

9:00-12:00 Working Group Meetings

12:00-13:00 LUNCH

13:30 Activity

18:00-19:00 BBQ Dinner

19:30-21:00 Working groups (or as arranged by WG co-chairs)
Sunday 18 April 2010
7:30-8:30 Breakfast

Open activities.

17:30 Tour and Group dinner at Chateau Julien

Monday 19 April 2010
7:30-8:30 Breakfast

08:30-10:06 Session 7 Oral Presentations

**Chairs: Tom Kleespies and Fiona Hilton**

7.41 Zhiquan Liu  
Radiance Assimilation Over Northern High-Latitude Regions With The WRF Model.

7.42 John Eyre  
Beyond Optimal Estimation: Sensitivity Of Analysis Error To The Specification Of Background Error.

7.43 Fiona Hilton  
The Sensitivity Of The Sub-Optimal NWP Analysis System To The Representation Of Hyperspectral Data.

7.44 William Campbell  
Vertical Covariance Localization For Satellite Radiances In Ensemble Kalman Filters.

7.45 Niels Bormann  
Estimates Of Spatial And Inter-Channel Observation Error Characteristics For AMSU-A And IASI And Applications In The ECMWF System.

7.46 Brett Harris  
An Offline Cycling Update Satellite Bias Correction Scheme In The ACCESS Global NWP System At The Bureau Of Meteorology.

10:06-10:30 BREAK

10:30-12:06 Session 7 Oral Presentations

**Chairs: Tom Kleespies and Fiona Hilton**

7.47 Bill Bell  
An Assessment of SSMIS Imager Data.

7.48 Jun Li  
Forecast Of Hurricane Track And Intensity With Advanced IR Soundings.

7.49 Benjamin Ruston  
Interaction Of GPS Radio Occultations With Hyperspectral Infrared And Microwave Sounder Assimilation.

7.50 Tony McNally  
Progress and plans in the assimilation of cloud affected IR radiances.

7.51 Nadia Fourrie  

7.52 Sylvain Heilliette  
Infrared Cloudy Radiances Assimilation Experiments At Environment Canada.

12:06-13:00 Lunch
13:00-13:30 Break

13:30-14:18 Session 7 Oral Presentations
7.53 Stephen Mango  Emerging And Evolving Opportunities For Achieving Global Soundings For NWP And Climate Using GNSS/GPS Radio Occultation Systems.

7.54 Martin Stengel  Assimilation Of Cloud-Affected Infrared Radiances In HIRLAM 4D-Var.

7.55 Louis Garand  Validation Of Cloud Parameter Forecasts Using Infrared Hyperspectral Sounders.

14:18-15:00 Session 8: Agency status report poster presentations (5 mins)  

Chairs: Mitch Goldberg and Jerome Lafeuille

8.1 Dieter Klaes  EUMETSAT Plans
8.2 Thierry Phulpin  CNES Programmes For Meteorology, Climate And Atmospheric Composition
8.3 Kozo Okamoto  Agency Status Reports: JMA And JAXA
8.4 Alexander Uspensky  Russia
8.5 Pradeep Thapliyal  India
8.6 Mitch Goldberg  NOAA
8.7 Jun Li  China

15:00-15:30 BREAK

Session 9: Future sounders

15:30-15:40 Session 9 Poster Presentations  

Chairs: Pete Wilczynski and Dieter Klaes

9.1 Louis Garand  Continuous Imaging Of The Arctic From The Polar Communications And Weather Mission.
9.2 Bill Bell  Study on the Spectral and Radiometric Requirements for a European post-EPS Microwave Imaging Mission.
9.3 Stephen Tjemkes  On The Apodisation Of MTG-IRS.

15:40-16:40 Session 7 and 9 poster viewing

16:40-17:30 Working groups finalise reports

18:00 Buses leave for banquet

19:00 Banquet at the Aquarium
Tuesday 20 April 2010
7:30-8:30 Breakfast

Session 9: Future sounders and programs

08:30-10:06 Session 9 Oral Presentations

Chairs: Pete Wilczynski and Dieter Klaes

9.6 Sung-Yung Lee  Activity Of Sounder PEATE.
9.7 Peter Schlüssel  Sounding Observation Missions For The Future EUMETSAT Polar System.
9.9 Stephen Tjemkes  Towards A Consolidated L2 Processor For MTG-IRS.
9.10 Vincent Leslie  Development And Predicted Performance Of The Advanced Technology Microwave Sounder For The NPOESS Preparatory Project.
9.11 Peter Wilczynski  Global Change Observation Mission (GCOM) Data Recovery By The National Oceanic And Atmospheric Administration (NOAA) – An International Partnership To Capture Critical Operational And Climate Environmental Data Records From Space.

10:06-10:25 BREAK

10:25-11:45 Working Group reports

Co-chairs: Allen Huang and Stephen English

RT
Climate
NWP
Advanced sounders
International
Sounder science and products

11:45-12:15 Future meetings, other events relevant to ITWG

Co-chairs: Allen Huang and Stephen English

Plans for next meeting and closing remarks

12:15-13:00 Lunch

13:00 First coach depart (box lunch will be provided)
14:00 Second Coach depart