

**29th IADC Meeting
DLR
Berlin, Germany
April 11-14, 2011**

Working Group 1: Measurements

Agenda of the Meeting (Version 3, April 11, 2011)

TIME	April 11 Monday	April 12 Tuesday	April 13 Wednesday	April 14 Thursday
08:30-09:00	Registration	-	-	-
09:00-10:30	9:00-11:00 Opening Plenary	WG1 Session 2.1 Instrumentation	WG1/WG2 Session 3.1	WG1 Session 4.1 Open ITs
10:30-11:00	11:00-11:30 Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00-12:30	11:30 WG1 Session 1.1 General	WG1 Session 2.2 Observations	WG1 Session 3.2 Open ITs	WG1 Session 4.2 Future Activities
12:30-13:30	Lunch	Lunch	Lunch	Lunch
13:30-15:00	WG1 Session 1.2 General	WG1 Session 2.3 Observations	WG1 Chair report to SG	WG1 Session 4.3 Review and Closing
15:00-15:30	Coffee Break	Coffee Break	15:00-18:30 Social Event: The political and historical Berlin	Coffee Break
15:30-17:00	WG1 Session 1.3 Open AIs	WG1 Session 2.4 WG1/WG2 preparation		Closing Plenary
17:00-18:00	WG1 Chair report to SG	WG1 Chair report to SG		

19:30-23:00 Dinner

Day 1: Monday, April 11

8:30 – 9:00 Registration

9:00 – 11:00 Plenary Meeting

- Welcome and Overview – IADC Chair
- Presidential Address
- Inaugural Address Statements by Heads of Delegations
- Outline by Working Group Chairs
- Plenary Presentations

11:00 – 11:30 Coffee Break

11:30 – 12:30 Session 1.1

General

- Meeting overview & objectives; status of Action Items, Summary of SG meeting September 2010 (T. Schildknecht, ESA, F. Piergentili, ASI, 10min)
- Update and approval of Agenda
- Agency Status Reports: space debris related activities in 2010/2011 (5 min per WG1 member Agency: ASI, CNSA, CSA, DLR, ESA, ISRO, JAXA, NASA, NSAU, ROSCOSMOS, UKSpace)

12:30 – 13:30 Lunch

13:30 – 15:00 Session 1.2

General (continue)

- Agency Status Reports: continuation
- New objectives for the IADC (T. Schildknecht, ESA, F. Piergentili, ASI, 10min)

Open Action Items

- Final report for AI 23.4 (International 2007 optical observation campaigns in higher Earth orbits) (F. Piergentili, P. Seitzer, 20min)
- Discussion of AI 23.4 (all)
- AI23.3, AI25.1, AI 28.1 (International 24h LEO space debris measurement campaign 2006, 2008, 2010) (G. Stansbery, NASA, 5min), status of Final Reports

15:00 – 15:30 Coffee Break

15:30 – 16:45 Session 1.3

Open Action Items (cont.)

- Final report for AI 23.2 (Investigation of high A/m ratio debris in higher Earth orbits) (V. Agapov, Roscosmos, T. Schildknecht, ESA, 10min)
- Discussion of AI 23.2 (all)

Instrumentation

- PMO's Project of Space Debris Photometry with 65cm Telescope (Zhao, Changyin and Dong Wie, CNSA, 20min)
- Plans for the Meter Class Autonomous Telescope and Potential Coordinated Measurements With Kwajalein Radars (G. Stansbery, NASA, 20min)
- New dedicated observation facilities for near-Earth space monitoring (I. Molotov, Roscosmos, 20min)
- Initial Comparison of the 2006 and 2008 IADC 24 hour LEO Campaigns (G. Stansbery, NASA, 20min)

16:45 – 17:00 Preparation of WG1 report to SG

17:00 – 18:00 WG reports to SG

Day 2: Tuesday, April 12

09:00 – 10:30 Session 2.1

Instrumentation/Observations

- Design and Integration of the HUSIR Antenna (G. Stansbery, NASA, 20min)
- Results from a three-year ASI-INAF campaign of Space Debris radar observations (S. Montebugnoli, ASI, 20 min)
- The 2010 LEO debris campaign - TIRA results (L. Leushacke, DLR, 15min)
- Radar with digital array for detection of space debris (Pavlo Fedorov, NSAU, 10min)
- LEO observation optical observation (B. Vidal, CNES, 20min)

10:30 – 11:00 Coffee Break

11:00 – 12:30 Session 2.2

Observations

- University of Bologna activities for space debris measurements (F. Piergentili, ASI, 20min)
- The Implementation of the Italian Space Debris Activities at University of Rome (C. Cappelletti, ASI, 20min)
- A New Search for Optically Faint GEO Debris (P. Seitzer, NASA, 10min)
- Results of a statistical MEO survey (T. Schildknecht, ESA, 20min)
- Automation of development of GEO and HEO region survey strategies - implementation for faint space debris surveys (V. Agapov, Roscosmos, 20min)

12:30 – 13:30 Lunch

13:30 – 15:00 Session 2.3

Observations (cont.)

- Photometry and spectroscopy of GEO objects with the Loiano 1.5 m telescope (A. Rossi, F. Piergentili, ASI, 20min)
- Physical characterization of high AMR debris by optical reflectance spectrometry (T. Schildknecht, ESA, 20 min)
- Collaborative ESA/NASA spectroscopic and multi-color observations of HAMR objects (T. Schildknecht, ESA, P. Seitzer, NASA, 10min)
- High area-to-mass GEO-like and HEO objects - updated results of research (V. Agapov, Roscosmos, 20min)

15:00 – 15:30 Coffee Break

15:30 – 16:45 Session 2.4

Observations (cont.)

- High Area to Mass Ration Satellites (T. Payne, NASA, 20min)
- ESA classification of geosynchronous objects (T. Flohrer, ESA, 5min)

WG1/WG2 Session preparation

- IT25.1 Data Exchange format
- Issues to be discussed with WG2

16:45 – 17:00 Preparation of WG1 report to SG

17:00 – 18:00 WG reports to SG

Day 3: Wednesday, April 13

09:00 – 10:30 Joint WG1/WG2 Session 3.1

AI 25.1: Data Exchange Format

- Exchange format suggestions (Krisko,15mins)

Other topics

- Orbit determination and catalogue building in GEO and LEO (Rossi,10mins)

10:30 – 11:00 Coffee Break

11:00 – 12:15 Session 3.2

Open Internal Tasks

- Conclusions from joint WG1/WG2 session (IT25.1 Data Exchange format, etc.)
- IT25.2 Preparation of future High AMR campaign (V. Agapov)
- IT26.1 Preparation of new high Earth orbit campaign (P. Seitzer)

12:15 – 12:30 Preparation of WG1 report to SG

12:30 – 13:30 Lunch

13:30 – 15:00 WG reports to SG

15:00 – 18:30 Social Event

The political and historical Berlin

19:30 – 23:00 Conference Dinner

Day 4: Thursday, April 14

09:00 – 10:30 Session 4.1

Open Internal Tasks (cont.)

- IT 28.1 Calibration (V. Agapov, Roscosmos, T. Schildknecht, ESA, 20min)
- Discussion on IT 28.1 (all)
- IT 28.2: Some results of the internal task on the software and algorithms comparison for satellites and space debris search on astronomical images (C. Massimiani, ASI, 20min)
- IT28.2 Comparison of CCD image processing approaches (B. Vidal CNES, 20min)
- Discussion on IT 28.2 (all)

10:30 – 11:00 Coffee Break

11:00 – 12:30 Session 4.2

Joint WG1/WG4 session

- “Tumbling rate of LEO objects” (Ch. Bonnal, CNES, 15min)

Future Activities

- Discussion on future role and activities of WG1

12:30 – 13:30 Lunch

13:30 – 14:45 Session 4.3

Review and Closing

- Wrap-up
- AoB

14:45 – 15:00 Preparation of WG1 report for Closing Plenary

15:00 – 15:30 Coffee Break

15:30 – 17:00 Closing Plenary

- Working Group Reports
- Report by SG Closing
- Remarks by Outgoing and new IADC Chair