

# International Laser Ranging Service

## Data Formats & Procedures Working Group

### Agenda

Monday, May 16, 2011, 18:00 – 19:00

Bad Koetzing, Germany

- |   |                                    |
|---|------------------------------------|
| 1. Welcome and Introduction   | Randall Ricklefs                   |
| 2. Membership   | Randall Ricklefs                   |
| 3. Refraction Study Group Report  | Erricos Pavlis/Stefan Riepl        |
| 4. Formats  |                                    |
| • CRD implementation status   | Randall Ricklefs, Erricos Pavlis   |
| • Concern about short cut   |                                    |
| • Data Distribution Issues  | C. Noll, D. McCormick, C. Schwatke |
| • Data flow walk-through  |                                    |
| • Quarantine Data   |                                    |
| • Test Data (CRD)   |                                    |
| • CRD Format issues   | Randall Ricklefs                   |
| • Station name standards  |                                    |
| • Satellite name standards  |                                    |
| • Configuration ID  |                                    |
| • Other   |                                    |
| • Sample normal point program   | Graham Appleby                     |
| 5. DF&P WG Charter review   | All                                |
| <a href="http://ilrs.gsfc.nasa.gov/working_groups/dfpwg/data_format_wg_charter.html">http://ilrs.gsfc.nasa.gov/working_groups/dfpwg/data_format_wg_charter.html</a> |                                    |
| 6. Other Business, next meeting   | All                                |

# Data Formats And Procedures WG Charter

Charter updated on 07 May 1999 as a result of The Hague Data Formats and Procedures WG Meeting.

## 1. AIMS

1. Standardize procedures affecting data up to generation of full-rate and normal point data
2. Maximize the efficiency of the process of generating the laser data, by ensuring that accurate predictions are available and that standardized software procedures are available to produce a uniform quality data product
3. Ensure that the data product contains all the information needed by the analyst, and that the data and related information are available for the analyst in a convenient form

## 2. ROLE

### 2.1 PREDICTIONS - Document and maintain standards for:

- Force model and reference frame of IRV integrator.
- Format of IRV state vectors.
- Standard methods to correct IRVs for unmodelled forces.
- Standard format for time bias functions, drag functions, satellite maneuvers, etc..
- Standard software packages for generating predictions from IRVs.

The Working Group will endeavor to ensure that there are several groups within the network with the capability of generating IRVs and time bias corrections, and that there are efficient and rapid means of distribution.

### 2.2 DATA PROCESSING

- Document and maintain the standard algorithm for formation of normal points.
- Endeavor to maintain standard software packages for fitting a trend function to pass residuals, for analyzing the distribution of pass residuals, and calculating various reference points (mean, peak, etc).

### 2.3 STATION INFORMATION- Document and maintain formats for recording station information, such as:

- Eccentricity vectors
- Site occupancy details
- Changes to systems (e.g., SCH log files)
- Alternative operational configurations of stations (e.g., SCI log files)

### 2.4 FINAL DATA PRODUCT FORMATS AND TRANSMISSION STANDARDS

- Maintain documentation of formats for the final data products, full-rate data (FR) and normal points (NP).
- Coordinate continuing review of formats, and if necessary revise.
- Document standards for transmission, including file naming conventions.