

## **CIRA-08 – The New COSPAR International Reference Atmosphere: Outline of Tasks**

### **CIRA-08 – The New COSPAR International Reference Atmosphere.**

#### **Draft Contents List of CIRA-08:**

1. Introduction: History of Previous CIRA and other Reference Models
2. Thermosphere Models – JB2008, NRLMSISE-00, GRAM-07 and GOST
  - 2.1: NRLMSISE-00
  - 2.2: JB2006 and JB2008
  - 2.3: GRAM07
  - 2.4: GOST
3. Solar and Geomagnetic Inputs to the Models
4. Metals Species for the Middle and Upper Atmosphere
6. Atmospheric Winds:
  - 6.1: HWM07 – now inc. WINDII data
  - 6.2: GWEM
5. Outstanding Issues such as Trends, Cd, Cal. of Mass Spec / Accelerometers, Spacecraft data (Mass, Area) etc. What assumptions were made – how did they affect results / models.
7. Insights from Physical Models: Chemistry, Dynamics, Electrodynamical and Energetic Interactions
8. Model Statistical Comparisons with Data: Including High Resolution Data during Geomagnetic Storms including Errors and Uncertainties
9. Limitations – Guidelines concerning best use of the Models
10. Future Improvements.
11. Q/C; Upgrades; Version Control and related issues
12. References etc

#### **1. Authors**

- 1. Rees and Vaughan
- 2. Overview: Bowman, Drob and Leslie + Cefola (GOST) – TBC
  - 2.1: NRLMSISE-00 – Drob + Leslie
  - 2.2: JB2006 and JB2008 – Bowman
  - 2.3: GRAM07 - Leslie
  - 2.4: GOST – Cefola – TBC
- 3. Tobiska and Bowman
- 4. Plane
- 5. Moe / Doornbos / Koppenwallner / Fritsche, Bruce Bowman + +
- 6. Overview – Rees + Drob + Leslie

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- 6.1. HWM07 – Emmert / Drob
- 6.2. GWEM – Jacobi (TBC))
- 7. Fuller-Rowell + Schunk + Jeff Crowley(??)
- 8. Frank Marcos + + +
- 9, 10 & 11. Everyone!! (to be led by Bruce Bowman and .....
- 12. Everyone!! (DR to collect and collate – but with help from EVERYONE!!!)

### 2. Schedule.

<b>Task</b>	<b>Action</b>	<b>Date</b>
1. Acknowledgment of receipt of this document	e-mail to DR by return or ASAP	<b>Sept. 10<sup>th</sup> 2008</b>
2. Agree Outline Plan for Section	e-mail to DR by	<b>Sept 30<sup>th</sup>. 2008</b>
3. Draft of Section	Circulate to DR and CIRA WG	<b>November 30<sup>th</sup>.</b>
4. Internal Review of Sections	Circulate to DR and CIRA WG	<b>January 2009</b>
5. External Review by ASR	DR – consult with WG & ASR	<b>March 2009</b>
6. ASR Publication of CIRA-08		<b>July 2009</b>

David Rees, Chair CIRA Working Group, August 22<sup>nd</sup> 2008.