

## ***Interactive comment on “In-flight control and communication architecture of the GLORIA imaging limb-sounder on atmospheric research aircraft” by E. Kretschmer et al.***

**Anonymous Referee #2**

Received and published: 17 April 2015

Review of Kretschmer et al., AMTD, 8, 1697 – 1729, 2015.

General comments:

This paper describes the control and communication system of the GLORIA instrument flown on different high altitude aircraft. The paper is part of a special issue on GLORIA. As a stand-alone paper this manuscript would not be suitable for AMT or ACP in my opinion, but as part of the special issue the manuscript complements the other papers well and provides detailed information on technical aspects that are usually not discussed in the atmospheric science literature. For these reasons, the manuscript

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should be published, in my opinion. The paper reads well and I don't have any major objections, but ask the authors to consider the specific comments listed below.

Specific comments:

Page 1699, line 26: I suggest replacing 'can also proceed with measurements' by 'can also perform measurements'

Page 1700, line 2: 'atmosphere dynamics' -> 'atmospheric dynamics' ?

Page 1700, line 3: 'atmosphere chemistry' -> 'atmospheric chemistry' ?

Page 1701, line 8: I suggest replacing 'avoid Sun blending' by 'avoid direct Sun viewing'

Page 1701, line 21: 'proposed a standardised' -> 'provides a standardised'

Page 1702, line 24: Context not clear in 'Since it is too large'. It's not fully clear what 'it' refers to here. I think it must be the science data, right?

Page 1702, line 27: 'To support a large number of sensors placed on different levels of the gimbal frame'

I don't really understand this statement. What 'sensors' do you mean here? Is there a large number of sensors on the gimbal frame?

Page 1703, line 25: 'balloon-borne platform' -> 'balloon-borne platforms'

Page 1710, line 9: 'includes identifier' -> 'includes the identifier'

Page 1711, line 25: 'the later' -> 'the latter'

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Interactive comment on Atmos. Meas. Tech. Discuss., 8, 1697, 2015.

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