On Incorporating Sections of Standard for Rigorous Geolocation into 19130

General -- There is some descriptive material that does not belong in a standard but can be covered in informative Annex text. There are several places where the phrase “this paper” is used to talk about what is or is not included. Material to be included should be included in full; the UML and the data dictionary should contain the all material that the data provider should supply to incorporate the technique described. Techniques that are not used should not be mentioned.

6.1 Overview and 6.1.1 Frame rigorous physical/geometric sensor model -- Incorporated into 8.4 Frame camera of 19130. Clause retitled Area Sensors.

6.1.1.1 Coordinate system orientation – selected text incorporated into C.1.1 Coordinate systems – overview and C.1.3 Sensor coordinates

6.1.1.2 Sensor coordinate system – Use to modify C.5.2 Area Sensor. Some explanatory material may go into clause 8.4

6.1.1.3 Pixel-to-image coordinate transformation –
First two paragraphs into a new clause in Annex D
Third paragraph (data type of coordinates) in UML diagrams and Annex B.
Distortion material is already covered in clause 8.4 of 19130, except for atmospheric distortion, which has been added

6.1.1.4 Curvature of the Earth – Since this effect is discussed only to say that it is not considered, it should not be in this initial 19130

6.1.1.2 Collinearity equations. Material should be used to improve 19130 D.2 Transformation from area sensor to projected coordinate reference system (ASN to PRO)

6.1.1.3.1 Adjustable frame parameters. Parameters should be added to UML and data dictionary where they are not already present. Descriptive material not in text should also be added, but most descriptive material is in text.

6.1.1.3.2 Covariance matrices – Add text to 8.4 or 7.6.3. Add elements to UML and data dictionary where needed.