| **Page** | **Section** | **Line** | **Type** | **Comment/ Rationale** | **Source of Comment (Name/Agency)** | **Suggested Disposition** | **Disposition****(Completed by Principal Editor)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4-1 | 4.1 | 2 | ed | The meaning of this term is not clear to me. Could it not be more explicit? | Brigitte Behal/CNES |  | Complete. Modified test to add definition per the term as defined in SANA glossary of terms as “An entity that has the ability to acquire or broadcast navigation messages. “ https://sanaregistry.org/r/terms?status=&term\_0=participant&term\_1=iexact&definition\_0=&definition\_1=iexact&oid=&filter=Apply+filters |
| 4-2 | 4.3.3.2 | 3 | ed | Ref the word “bulges”: Should it not be singular instead of plural? | Brigitte Behal/CNES |  | Complete. Corrected to ‘bulge’ |
| 4-3 | 4.3.4.3 | 5 | ed | Ref the word “are”: Are or is? The subject is "the orientation" (singular) | Brigitte Behal/CNES |  | Complete. No Change: The correct term is “are” since we are referring to two parameters. |
| 4-5 | Fig 4-1 | Right middle | ed | Ref middle block on right: "t" is not really visible on my screen | Brigitte Behal/CNES |  | Complete. No change. This figure is grandfathered in, per agreement by the group. Perhaps the Editor could assist with this item. |
| 4-11 | 4.4.2.2.4 | 4 | te | Not clear to me: does that mean 6-Jan-1980 at 0h? | Brigitte Behal/CNES |  | Complete: changed to state 0h 1980 January 6. |
| 4-13 | 4.4.2.3.2 | 4 | te | Ref [s(TCB)/s(TDB)]: Not clear to me. What is the s function?I found the following relationship in the literature: TCB - TDB = 1.550505e-08 x (JD -2443144.5) x 86400, JD being the Julian DateCould the definition of Lb be more explicit? | Brigitte Behal/CNES |  | Complete. ‘s’ merely refers to the fact that the equation holds for times given in seconds for those systems.I don’t understand the question posed by providing the relationship in the comment. LB is a constant employed to define the linear relationship between TCB and TDB. Sentence amended to read “Using LB as a constant employed to define the linear relationship, when defined in units of seconds (s), TCB and TDB exhibit a scale difference of” 9followed by equn. |
| 4-13 | 4.4.2.3.2 | 6 | te | Ref “ \*(year-1977.0) : I do not understand. If I apply the previous relationship, I find that TCB –TDB = 0,48896726 s per year. What is the meaning of "(\* year-1977.0)"? | Brigitte Behal/CNES |  | Complete. No Change. The relationship holds starting with year 1977, which is when the IAU defined and aligned the terms TDB, TT, TCG, and TCB. This is common nomenclature. |
| 4-13 | 4.4.2.4 | 2 | Te | Ref “the author”: Who is the author of this document? There is no identified author. | Brigitte Behal/CNES |  | Complete. No Change. The author is given in the reference citation identified in the text. |
| 4-14 | Fig 4-6 | Right | te | Ref FK5 in figure: Clarify FK5 please | Brigitte Behal/CNES |  | Complete. Made entry in Glossary. FK5 is the Fifth Fundamental Catalogue; it is a pseudo-inertial system for geodetics coordinates that was used by the IAU to define motion of the equator and equinox prior to IAU’s use of GCRF. |
| 4-14 | Fig 4-6 | left | te | Ref “TCG=TT+2.2s/cy\*(year-1977.0)”: Does not seem coherent with §4.4.2.2.1 that says:TT= (1-LG) TCGwhere LG=6.9692901 x 10-10Which leads to TCG = TT\* 1,0000000007Can you explain please? |  |  | Complete. No Change. 100 yr/century \*365.25 days/yr \*86400 sec/day\*LG = 2.2 seconds/century. The relationship only applies to years since 1977 when the IAU established alignment between the terms TDB, TT, TCG, and TCB. |
| 4-15 | 4.5 | 1 | ed | Ref word “astrodynamic”: should it not be "astrodynamic**s**" or astrodynamical? |  |  | Complete. No Change. The word “astrodynamics” is the adjective, the subject is “constants”; subject-verb agreement is maintained in the sentence as is. |
| 4-15 | 4.6 | 1 | ed | Ref word “astrodynamic”: should it not be "astrodynamic**s**" or astrodynamical? |  |  | Complete. No Change. The word “astrodynamics” is the adjective, the subject is “constants”; subject-verb agreement is maintained in the sentence as is. |
| 5-9 | 5.3.3 | 20 | ed | Ref word “spacecraft”: Shout it not be plural? |  |  | Complete. No Change. The word “spacecraft” is both singular and plural. |
| 6-1 | 6.2.1.2 | 5 | ed | Ref word “that”: Should it not be "these frames"? |  |  | Complete. Changed to “these frames”. |
| 6-3 | 6.2.2.1 | 1 | ed | Ref word “optimetrics”: Optimetrics or opt**o**metrics? |  |  | Complete. No Change. Either form is acceptable. |
| 6-5 | 6.2.2.4 | 6 | Ed | Ref word “’five-way’”: It does not seem coherent with the title of the paragraph |  |  | Complete. No Change. While the measurement is 4-way (along a 4-legged path), the addition of a reference signal adds an additional leg. It is only relevant to a relay-type measurement and does not stand on its own. |
| 6-6 | 6.2.2.5 | 9-10 | Ed | The font size of this sentence is different from the previous sentences.  |  |  | Complete. |