



準天頂衛星システム センチメートル級測位補強サービス (CLAS)

IS-QZSS-L6／PS-QZSS (CLAS部分) の 改訂について

2018年10月17日
準天頂衛星システムサービス株式会社



2017年12月9日実施の情報交換会では、CLASのグリッド定義の変更に伴うIS-QZSS-L6の改訂内容に関してご説明しました。その内容を反映したものは、2018年3月にウェブ公開しています。

また、CLASでは以下の情報を2018年8月31日にウェブ公開しました。

さらにサービスイン時に、PS-QZSS/IS-QZSS-L6の1版制定版(11月5日版)を公開する計画です。

□ PS-QZSS(Draft, August 31, 2018)

— CLASが想定するサービスの利用条件について追記

— <http://qzss.go.jp/technical/download/ps-is-qzss.html> (PS本体)

— <http://qzss.go.jp/technical/system/l6.html>(日本語、システム概要ページ)

□ IS-QZSS-L6-001 (Draft, August 31, 2018)

— 南方域(石垣地方)対策の内容(Compact SSR サブタイプ11の追加送信など)を追記

— <http://qzss.go.jp/technical/download/ps-is-qzss.html>

□ CLASLIB0.5.0

— SSR2OSR変換部 (ssr2osr) 更新版公開、測位演算部 (rnx2rtkp) 更新版配布開始(申請制)

http://sys.qzss.go.jp/dod/downloads/download.html?TECH_ID=2

— Galileo対応、IS-QZSS-L6 (Draft, August 31, 2018) 版対応、その他機能・性能を向上

今回の情報交換会におきましては、PS-QZSS/IS-QZSSに関して、

上記2018年8月31日版の内容と今後公開予定である11月5日版の内容をご説明します。



1. IS-QZSS-L6 (Draft, August 31, 2018) 改訂内容



IS-QZSS-L6の構成

1. 範囲

2. 関連文書・用語の定義

3. 信号仕様

3.1 RF特性

3.2 PRNコード

4. メッセージ仕様*

4.1 L6Dメッセージ

- ・メッセージ構造
- ・メッセージ内容
- ・ヘッダ部
- ・データ部
- ・リードソロモン符号
- ・グリッド定義*

4.2 L6Eメッセージ

- ・メッセージ構造
- ・メッセージ内容

5. ユーザアルゴリズム

5.1 時刻系

5.2 測地系

5.3 定数

5.4 インテグリティ

5.5 Compact SSRメッセージによる 計算アルゴリズム*

*IS-QZSS-L6-001 (Draft, August 31, 2018)
において改訂した項目



概要

- ・南方域(石垣島周辺)における精度向上を目的に、衛星クロック/軌道に関するローカル補正(Compact SSR サブタイプ11)のフォーマットを新たに定義し、メッセージのノミナル送信パターンを更新しました。
⇒表1-1 L/N=1, 2参照
- ・孤島のグリッド(母島、父島、南大東島)における精度向上を目的に、グリッド定義表(Table 4.1.4-1)およびノミナル送信パターンを更新しました。
⇒表1-1 L/N=2, 3参照
- ・その他、誤記等の修正を行っています。
⇒表1-1 L/N=4参照

表1-1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂内容

L/N	改訂内容	参照Page
1	Compact SSR サブタイプ11の定義追加	5~11、22~23
2	送信パターン例の表・図の更新	12
3	グリッド定義表の更新	13~21
4	その他	6、24



サブタイプ11の追加送信について

- ・南方域における精度改善のため、インフラ側では地域に依らず共通的に使用する補正情報であるOrbit Correction・Clock Correction・Code Bias推定時に、石垣島周辺の網(ネットワークID=1)を分離させ、石垣島周辺の網だけに対応した①Orbit Correction②Clock Correction③Code Biasを推定し、追加送信します。
- ・石垣島周辺(ネットワークID=1)に位置するユーザは、上記①②はサブタイプ11、③はサブタイプ6を、それ以外の地域に位置するユーザは、これまでと同一であり、①はサブタイプ2、②はサブタイプ3、③はサブタイプ4を使用して測位を行います。
- ・2018年6月よりテスト配信を開始し、2018年10月1日から試験サービスとして、正式に送信を開始しています(NAQU Message 2018538参照)。
- ・なお、本方式に即すフォーマットはCompact SSR Subtype11 (Compact SSR GNSS Combined Correction)と新たに定義していますが、標準化活動を実施しているRTCM SC-104委員会においても、同時に標準化提案を行っています。



サブタイプ11のフォーマット

サブタイプ11: Compact SSR GNSS Combined Correction

- ヘッダ部にNetwork ID情報を含み、そのNetworkのみに有効である、Orbit Correction and/or Clock Correctionの状態量を含むメッセージです。
- 2018年10月現在、サブタイプ11はNetwork ID=1 (石垣島周辺) のみ送信しています。他のNetwork IDでの送信予定はありません。

表1-2. MT4073 サブタイプ11 ヘッダ部

項目	内容	ビット数	備考(RTCMv3.2 DF参照先等)
Message Number	4073	12	DF002
Message Sub Type ID	11	4	
GNSS Hourly Epoch Time 1s	GNSS時刻	12	
SSR Update Interval	SSR更新周期	4	DF391
Multiple Message Indicator	マルチプルメッセージ識別子	1	DF388
IOD SSR	SSR発行番号	4	DF413
Orbit Existing Flag	軌道補正フラグ	1	
Clock Existing Flag	クロック補正フラグ	1	
Network Correction	ネットワーク補正フラグ	1	
Compact Network ID	ネットワークID	5	Network Correction = 1 の場合
Network SV Mask	ネットワーク衛星マスク	N_{sat}	Network Correction = 1 の場合
ヘッダ部合計		$40+5+N_{\text{sat}}$	



サブタイプ11のフォーマット

- ・ヘッダ部に含まれる「Orbit Existing Flag」「Clock Existing Flag」により、含まれる情報が異なります。

表1-3. MT4073 サブタイプ11 衛星既存部

項目	内容	ビット数	備考
GNSS IODE	IODE	8	local衛星数Msat最大値 = 11 Msat個の衛星分 送信衛星がGalileoのとき10bit Orbit Existing Flag=1の場合
Compact SSR Delta Radial	SSR衛星軌道補正 (軌道半径方向)	15	Msat個の衛星分 Orbit Existing Flag=1の場合
Compact SSR Delta Along-Track	SSR衛星軌道補正 (軌道進行方向)	13	Msat個の衛星分 Orbit Existing Flag=1の場合
Compact SSR Delta Cross-Track	SSR衛星軌道補正 (軌道直行方向)	13	Msat個の衛星分 Orbit Existing Flag=1の場合
Compact SSR Delta Clock C0	SSR衛星クロック補正C0	15	Msat個の衛星分 Clock Existing Flag=1の場合
サブタイプ11合計		$40+5+N_{\text{sat}}+\{15 \text{ or } (+49 \text{ or } +51)\} * \text{Msat}$	

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(1/17) - サブタイプ11の追加

L/N	Page	Section	改訂前			改訂後			備考
			IS-QZSS-L6-001 Draft April 3, 2018						
1	19	4.1.1.2	Message Name	Message Type ID Sub Type ID *1	Nominal Update Interval [s]	Message Name	Message Type ID Sub Type ID *1	Nominal Update Interval [s]	サブタイプ11を追加定義
			Compact SSR Mask	MT4073.1	30	Compact SSR Mask	MT4073.1	30	
			Compact SSR GNSS Orbit Correction	MT4073.2	30	Compact SSR GNSS Orbit Correction	MT4073.2	30	
			Compact SSR GNSS Clock Correction	MT4073.3	5	Compact SSR GNSS Clock Correction	MT4073.3	5	
			Compact SSR GNSS Satellite Code Bias	MT4073.4	30	Compact SSR GNSS Satellite Code Bias	MT4073.4	30	
			Compact SSR GNSS Satellite Phase Bias	MT4073.5	30	Compact SSR GNSS Satellite Phase Bias	MT4073.5	30	
			Compact SSR GNSS Satellite Code and Phase Bias	MT4073.6	30	Compact SSR GNSS Satellite Code and Phase Bias	MT4073.6	30	
			Compact SSR GNSS URA	MT4073.7	30	Compact SSR GNSS URA	MT4073.7	30	
			Compact SSR STEC Correction	MT4073.8	30	Compact SSR STEC Correction	MT4073.8	30	
			Compact SSR Gridded Correction	MT4073.9	30	Compact SSR Gridded Correction	MT4073.9	30	
			Compact SSR Service Information	MT4073.10	(N/A)	Compact SSR Service Information	MT4073.10	(N/A)	
			Compact SSR GNSS Combined Correction	MT4073.11	5 or 30	Compact SSR GNSS Combined Correction	MT4073.11	5 or 30	
			Null Message	(N/A)	(N/A)	Null Message	(N/A)	(N/A)	
2	20	4.1.1.2	Message Name	Message Type ID Sub Type ID	Nominal Validity Period [s]	Message Name	Message Type ID Sub Type ID	Nominal Validity Period [s]	サブタイプ11を追加定義
			Compact SSR Mask	MT4073.1	*1	Compact SSR Mask	MT4073.1	*1	
			Compact SSR GNSS Orbit Correction	MT4073.2	60	Compact SSR GNSS Orbit Correction	MT4073.2	60	
			Compact SSR GNSS Clock Correction	MT4073.3	10	Compact SSR GNSS Clock Correction	MT4073.3	10	
			Compact SSR GNSS Satellite Code Bias	MT4073.4	60	Compact SSR GNSS Satellite Code Bias	MT4073.4	60	
			Compact SSR GNSS Satellite Phase Bias	MT4073.5	60	Compact SSR GNSS Satellite Phase Bias	MT4073.5	60	
			Compact SSR GNSS Satellite Code and Phase Bias	MT4073.6	60	Compact SSR GNSS Satellite Code and Phase Bias	MT4073.6	60	
			Compact SSR GNSS URA	MT4073.7	60	Compact SSR GNSS URA	MT4073.7	60	
			Compact SSR STEC Correction	MT4073.8	60	Compact SSR STEC Correction	MT4073.8	60	
			Compact SSR Gridded Correction	MT4073.9	60	Compact SSR Gridded Correction	MT4073.9	60	
			Compact SSR Service Information	MT4073.10	(N/A)	Compact SSR Service Information	MT4073.10	(N/A)	
			Compact SSR GNSS Combined Correction	MT4073.11	10 or 60	Compact SSR GNSS Combined Correction	MT4073.11	10 or 60	
			Null Message	(N/A)	(N/A)	Null Message	(N/A)	(N/A)	

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(2/17) - サブタイプ11の追加

L/N	Page	Section	改訂前				改訂後				備考
			IS-QZSS-L6-001 Draft April 3, 2018								
3	24	4.1.2.2.1	Sub Type	Sub Type Name	No. of Bit*	Notes	Sub Type	Sub Type Name	No. of Bit*	Notes	サブタイプ11を追加定義 サブタイプ6の誤記修正
			1**	Compact SSR Mask	$49+(61+N_{cell}) \times N_{sys}$	4.1.2.2.2	1**	Compact SSR Mask	$49+(61+N_{cell}) \times N_{sys}$	4.1.2.2.2	
			2	Compact SSR GNSS Orbit Correction	$37+(51 \text{ or } 49) \times N_{sat}$	4.1.2.2.3	2	Compact SSR GNSS Orbit Correction	$37+(51 \text{ or } 49) \times N_{sat}$	4.1.2.2.3	
			3	Compact SSR GNSS Clock Correction	$37+15 \times N_{sat}$	4.1.2.2.4	3	Compact SSR GNSS Clock Correction	$37+15 \times N_{sat}$	4.1.2.2.4	
			4	Compact SSR GNSS Satellite Code Bias	$37+11 \times N_{code} \times N_{sat}$	4.1.2.2.5	4	Compact SSR GNSS Satellite Code Bias	$37+11 \times N_{code} \times N_{sat}$	4.1.2.2.5	
			5	Compact SSR GNSS Satellite Phase Bias	$37+17 \times N_{phase} \times N_{sat}$	4.1.2.2.6	5	Compact SSR GNSS Satellite Phase Bias	$37+17 \times N_{phase} \times N_{sat}$	4.1.2.2.6	
			6***	Compact SSR GNSS Satellite Code and Phase Bias	$45 + N_{sat} + 11 \times N_{code} + 17 \times N_{phase}$	4.1.2.2.7	6***	Compact SSR GNSS Satellite Code and Phase Bias	$45 + N_{sat} + (11 \text{ or } 17 \text{ or } 28) \times N_{sig} \times M_{sat}$	4.1.2.2.7	
			7	Compact SSR GNSS URA	$37+6 \times N_{sat}$	4.1.2.2.8	7	Compact SSR GNSS URA	$37+6 \times N_{sat}$	4.1.2.2.8	
			8	Compact SSR STEC Correction	$44+N_{sat} \times (20 \text{ or } 44 \text{ or } 54) \times M_{sat}$	4.1.2.2.9	8	Compact SSR STEC Correction	$44+N_{sat} \times (20 \text{ or } 44 \text{ or } 54) \times M_{sat}$	4.1.2.2.9	
			9	Compact SSR Gridded Correction	$57+N_{sat} \times (17+(7 \text{ or } 16) \times M_{sat}) \times N_{grid}$	4.1.2.2.10	9	Compact SSR Gridded Correction	$57+N_{sat} \times (17+(7 \text{ or } 16) \times M_{sat}) \times N_{grid}$	4.1.2.2.10	
			10	Compact SSR Service Information	TBD	4.1.2.2.11	10	Compact SSR Service Information	TBD	4.1.2.2.11	
			11	Compact SSR Service Information	TBD	4.1.2.2.11	11	Compact SSR GNSS Combined Correction	$40+5+N_{sat} \times (15+(49 \text{ or } 51)) \times M_{sat}$	4.1.2.2.12	
			* N_{cell} = No. of Cell Mask of each GNSS, N_{sat} = No. of satellite, N_{sig} = No. of signal, N_{sys} = No. of GNSS, N_{code} = No. of code bias, N_{phase} = No. of phase bias, M_{sat} = No. of satellite in local network, N_{grid} = No. of grid in local network				* N_{cell} = No. of Cell Mask of each GNSS, N_{sat} = No. of satellite, N_{sig} = No. of signal, N_{sys} = No. of GNSS, N_{code} = No. of code bias, N_{phase} = No. of phase bias, M_{sat} = No. of satellite in local network, N_{grid} = No. of grid in local network				
			** The size of N_{cell} depends on each GNSS				** The size of N_{cell} depends on each GNSS				
			*** In the case of "Network Bias Correction" equals to "0" (0) . "No. of Bit" equals "40+28* $N_{sig} \times N_{sat}$ ".				*** In the case of "Network Bias Correction" equals to "0" (0) . "No. of Bit" equals "40+28* $N_{sig} \times N_{sat}$ ".				

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(4/17) - サブタイプ11の追加

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3, 2018	改訂後	備考																																																																								
4 続き	48	4.1.2.2.12	—	<p>Table 4.1.2-31 Contents of satellite-specific part of Compact SSR GNSS Combined Correction Message</p> <table border="1"> <thead> <tr> <th>DF Name</th> <th>DF Range</th> <th>BIT</th> <th>LSB</th> <th>DF Unit</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td>GNSS IODE(SV 1)</td> <td>0-255 or 0-1023</td> <td>8 or 10</td> <td>1</td> <td>-</td> <td>Included only if "Orbit Existing Flag" equals to "1"</td> </tr> <tr> <td>Compact SSR Delta Radial(SV 1)</td> <td>±26.2128</td> <td>15</td> <td>0.0016</td> <td>m</td> <td>Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> <tr> <td>Compact SSR Delta Along-Track(SV 1)</td> <td>±26.208</td> <td>13</td> <td>0.0064</td> <td>m</td> <td>Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> <tr> <td>Compact SSR Delta Cross-Track(SV 1)</td> <td>±26.208</td> <td>13</td> <td>0.0064</td> <td>m</td> <td>Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> <tr> <td>Compact SSR Delta Clock C0(SV1)</td> <td>±26.2128</td> <td>15</td> <td>0.0016</td> <td>m</td> <td>Included only if "Clock Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> <tr> <td>J</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>GNSS IODE (SV Msat)</td> <td>0-255 or 0-1023</td> <td>8 or 10</td> <td>1</td> <td>-</td> <td>Included only if "Orbit Existing Flag" equals to "1"</td> </tr> <tr> <td>Compact SSR Delta Radial (SV Msat)</td> <td>±26.2128</td> <td>15</td> <td>0.0016</td> <td>m</td> <td>Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> <tr> <td>Compact SSR Delta Along-Track (SV Msat)</td> <td>±26.208</td> <td>13</td> <td>0.0064</td> <td>m</td> <td>Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> <tr> <td>Compact SSR Delta Cross-Track (SV Msat)</td> <td>±26.208</td> <td>13</td> <td>0.0064</td> <td>m</td> <td>Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> <tr> <td>Compact SSR Delta Clock C0 (SV Msat)</td> <td>±26.2128</td> <td>15</td> <td>0.0016</td> <td>m</td> <td>Included only if "Clock Existing Flag" equals to "1" '.26.2144 indicates data not available</td> </tr> </tbody> </table> <p>(1) Orbit Existing Flag If the flag set to "1"_(B), "GNSS IODE", "Compact SSR Delta Radial", "Compact SSR Along-Track", and "Compact SSR Delta Cross-track" are included.</p> <p>(2) Clock Existing Flag If the flag set to "1"_(B), "Compact SSR Delta Clock C0" is included.</p> <p>(3) Network Correction If the flag set to "1"_(B), the state parameters "Compact SSR Delta Clock C0" or/and "GNSS IODE", "Compact SSR Delta Radial", "Compact SSR Along-Track", and "Compact SSR Delta Cross-track" in local network should be used in exchange of the state parameters included in Sub Type 2 or 3.</p>	DF Name	DF Range	BIT	LSB	DF Unit	Note	GNSS IODE(SV 1)	0-255 or 0-1023	8 or 10	1	-	Included only if "Orbit Existing Flag" equals to "1"	Compact SSR Delta Radial(SV 1)	±26.2128	15	0.0016	m	Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available	Compact SSR Delta Along-Track(SV 1)	±26.208	13	0.0064	m	Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available	Compact SSR Delta Cross-Track(SV 1)	±26.208	13	0.0064	m	Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available	Compact SSR Delta Clock C0(SV1)	±26.2128	15	0.0016	m	Included only if "Clock Existing Flag" equals to "1" '.26.2144 indicates data not available	J						GNSS IODE (SV Msat)	0-255 or 0-1023	8 or 10	1	-	Included only if "Orbit Existing Flag" equals to "1"	Compact SSR Delta Radial (SV Msat)	±26.2128	15	0.0016	m	Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available	Compact SSR Delta Along-Track (SV Msat)	±26.208	13	0.0064	m	Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available	Compact SSR Delta Cross-Track (SV Msat)	±26.208	13	0.0064	m	Included only if "Orbit Existing Flag" equals to "1" '.26.2144 indicates data not available	Compact SSR Delta Clock C0 (SV Msat)	±26.2128	15	0.0016	m	Included only if "Clock Existing Flag" equals to "1" '.26.2144 indicates data not available	サブタイプ11を追加定義
DF Name	DF Range	BIT	LSB	DF Unit	Note																																																																								
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1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(5/17) - サブタイプ11の追加

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3, 2018	改訂後	備考																																																								
5	49	4.1.2.2.13	<table border="1"> <thead> <tr> <th>Sec</th> <th>Subframe Number</th> <th>Sub Type</th> <th>Compact Network ID</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>1</td> <td>1,2,3,4,5,6,7,8,9</td> <td>1,2</td> </tr> <tr> <td>5-9</td> <td>2</td> <td>3,6,8,9</td> <td>3,4,13,14</td> </tr> <tr> <td>10-14</td> <td>3</td> <td>3,6,8,9</td> <td>5,6,15,16</td> </tr> <tr> <td>15-19</td> <td>4</td> <td>3,6,8,9</td> <td>7,8,17,18</td> </tr> <tr> <td>20-24</td> <td>5</td> <td>3,6,8,9</td> <td>9,10,19,20</td> </tr> <tr> <td>25-29</td> <td>6</td> <td>3,6,8,9</td> <td>11,12,21</td> </tr> </tbody> </table>	Sec	Subframe Number	Sub Type	Compact Network ID	0-4	1	1,2,3,4,5,6,7,8,9	1,2	5-9	2	3,6,8,9	3,4,13,14	10-14	3	3,6,8,9	5,6,15,16	15-19	4	3,6,8,9	7,8,17,18	20-24	5	3,6,8,9	9,10,19,20	25-29	6	3,6,8,9	11,12,21	<table border="1"> <thead> <tr> <th>Sec</th> <th>Subframe Number</th> <th>Sub Type</th> <th>Compact Network ID</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>1</td> <td>1,2,3,11,4,5,6,7,8,9</td> <td>12,2</td> </tr> <tr> <td>5-9</td> <td>2</td> <td>3,11,5,8,9</td> <td>3,4,14</td> </tr> <tr> <td>10-14</td> <td>3</td> <td>3,11,5,8,9</td> <td>5,6,15,16</td> </tr> <tr> <td>15-19</td> <td>4</td> <td>3,11,5,8,9</td> <td>7,8,17,18</td> </tr> <tr> <td>20-24</td> <td>5</td> <td>3,11,5,8,9</td> <td>9,10,19</td> </tr> <tr> <td>25-29</td> <td>6</td> <td>3,11,5,8,9</td> <td>11,1</td> </tr> </tbody> </table>	Sec	Subframe Number	Sub Type	Compact Network ID	0-4	1	1,2,3,11,4,5,6,7,8,9	12,2	5-9	2	3,11,5,8,9	3,4,14	10-14	3	3,11,5,8,9	5,6,15,16	15-19	4	3,11,5,8,9	7,8,17,18	20-24	5	3,11,5,8,9	9,10,19	25-29	6	3,11,5,8,9	11,1	サブタイプ11追加
Sec	Subframe Number	Sub Type	Compact Network ID																																																										
0-4	1	1,2,3,4,5,6,7,8,9	1,2																																																										
5-9	2	3,6,8,9	3,4,13,14																																																										
10-14	3	3,6,8,9	5,6,15,16																																																										
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25-29	6	3,11,5,8,9	11,1																																																										
6	50	4.1.2.2.13	<p>Figure 4.1.2-12 Subtype transmission pattern</p>	<p>Figure 4.1.2-12 Subtype transmission pattern</p>	サブタイプ11追加																																																								

以下、省略 (サブフレーム2~6)

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



■ 新旧対照表(6/17) - グリッド定義表の更新

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3 ,2018	改訂後	備考																																																																																																																																			
7	62	4.1.4	<table border="1"> <thead> <tr> <th>Compact Network ID</th> <th>GRID No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td rowspan="8">1</td><td>1</td><td>24.53</td><td>122.92</td></tr> <tr><td>2</td><td>23.99</td><td>123.58</td></tr> <tr><td>3</td><td>24.53</td><td>123.58</td></tr> <tr><td>4</td><td>24.53</td><td>124.24</td></tr> <tr><td>5</td><td>24.53</td><td>124.89</td></tr> <tr><td>6</td><td>25.07</td><td>124.89</td></tr> <tr><td>7</td><td>24.53</td><td>125.55</td></tr> <tr><td>8</td><td>25.07</td><td>125.55</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Compact Network ID</th> <th>GRID No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td rowspan="10">2</td><td>1</td><td>26.42</td><td>126.87</td></tr> <tr><td>2</td><td>26.15</td><td>127.53</td></tr> <tr><td>3</td><td>26.69</td><td>127.53</td></tr> <tr><td>4</td><td>26.69</td><td>128.18</td></tr> <tr><td>5</td><td>27.23</td><td>128.18</td></tr> <tr><td>6</td><td>27.23</td><td>128.84</td></tr> <tr><td>7</td><td>27.77</td><td>128.51</td></tr> <tr><td>8</td><td>27.77</td><td>129.17</td></tr> <tr><td>9</td><td>28.30</td><td>129.17</td></tr> <tr><td>10</td><td>28.30</td><td>129.83</td></tr> </tbody> </table>	Compact Network ID	GRID No.	Latitude	Longitude	1	1	24.53	122.92	2	23.99	123.58	3	24.53	123.58	4	24.53	124.24	5	24.53	124.89	6	25.07	124.89	7	24.53	125.55	8	25.07	125.55	Compact Network ID	GRID No.	Latitude	Longitude	2	1	26.42	126.87	2	26.15	127.53	3	26.69	127.53	4	26.69	128.18	5	27.23	128.18	6	27.23	128.84	7	27.77	128.51	8	27.77	129.17	9	28.30	129.17	10	28.30	129.83	<table border="1"> <thead> <tr> <th>Compact Network ID</th> <th>GRID No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td rowspan="8">1</td><td>1</td><td>24.7531</td><td>125.3738</td></tr> <tr><td>2</td><td>24.8279</td><td>125.1710</td></tr> <tr><td>3</td><td>24.6416</td><td>124.6924</td></tr> <tr><td>4</td><td>24.5366</td><td>124.3013</td></tr> <tr><td>5</td><td>24.3389</td><td>124.1726</td></tr> <tr><td>6</td><td>24.0615</td><td>123.7959</td></tr> <tr><td>7</td><td>24.4263</td><td>123.7920</td></tr> <tr><td>8</td><td>24.4474</td><td>122.9395</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Compact Network ID</th> <th>GRID No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td rowspan="11">2</td><td>1</td><td>26.4200</td><td>126.8700</td></tr> <tr><td>2</td><td>26.1500</td><td>127.5300</td></tr> <tr><td>3</td><td>26.6900</td><td>127.5300</td></tr> <tr><td>4</td><td>26.6900</td><td>128.1800</td></tr> <tr><td>5</td><td>27.2300</td><td>128.1800</td></tr> <tr><td>6</td><td>27.2300</td><td>128.8400</td></tr> <tr><td>7</td><td>27.7700</td><td>128.5100</td></tr> <tr><td>8</td><td>27.7700</td><td>129.1700</td></tr> <tr><td>9</td><td>28.3000</td><td>129.1700</td></tr> <tr><td>10</td><td>28.3000</td><td>129.8300</td></tr> <tr><td>11</td><td>25.8312</td><td>131.2278</td></tr> </tbody> </table>	Compact Network ID	GRID No.	Latitude	Longitude	1	1	24.7531	125.3738	2	24.8279	125.1710	3	24.6416	124.6924	4	24.5366	124.3013	5	24.3389	124.1726	6	24.0615	123.7959	7	24.4263	123.7920	8	24.4474	122.9395	Compact Network ID	GRID No.	Latitude	Longitude	2	1	26.4200	126.8700	2	26.1500	127.5300	3	26.6900	127.5300	4	26.6900	128.1800	5	27.2300	128.1800	6	27.2300	128.8400	7	27.7700	128.5100	8	27.7700	129.1700	9	28.3000	129.1700	10	28.3000	129.8300	11	25.8312	131.2278	<ul style="list-style-type: none"> 有効桁数を増加 南大東島のグリッドをNetwork ID=2へ移動
Compact Network ID	GRID No.	Latitude	Longitude																																																																																																																																					
1	1	24.53	122.92																																																																																																																																					
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1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(7/17) - グリッド定義表の更新

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3 ,2018								改訂後								備考
			Compact Network ID 3				Compact Network ID 4				Compact Network ID 3				Compact Network ID 4				
			Compact Network ID	GRID No.	Latitude	Longitude	Compact Network ID	GRID No.	Latitude	Longitude	Compact Network ID	GRID No.	Latitude	Longitude	Compact Network ID	GRID No.	Latitude	Longitude	
8 続き	63	4.1.4	3	1	33.16	129.50	4	1	32.62	132.13	3	1	33.1600	129.5000	4	1	32.6200	132.1300	
				2	33.70	129.50		2	33.16	132.13		2	33.7000	129.5000		2	33.1600	132.1300	
				3	34.23	129.50		3	33.70	132.13		3	34.2300	129.5000		3	33.7000	132.1300	
				4	34.77	129.50		4	32.62	132.79		4	34.7700	129.5000		4	32.6200	132.7900	
				5	34.23	129.01		5	33.16	132.79		5	34.2300	129.0100		5	33.1600	132.7900	
				6	32.62	128.84		6	33.70	132.79		6	32.6200	128.8400		6	33.7000	132.7900	
				7	33.16	128.84		7	34.23	132.79		7	33.1600	128.8400		7	34.2300	132.7900	
				8	31.81	129.50		8	33.16	133.45		8	31.8100	129.5000		8	33.1600	133.4500	
				9	31.00	130.49		9	33.70	133.45		9	31.0000	130.4900		9	33.7000	133.4500	
				10	31.00	131.14		10	34.23	133.45		10	31.0000	131.1400		10	34.2300	133.4500	
				11	30.46	130.49		11	33.16	134.11		11	30.4600	130.4900		11	33.1600	134.1100	
				12	30.46	131.14		12	33.70	134.11		12	30.4600	131.1400		12	33.7000	134.1100	
				13	31.54	130.16		13	34.23	134.11		13	31.5400	130.1600		13	34.2300	134.1100	
				14	32.08	130.16		14	33.70	134.76		14	32.0800	130.1600		14	33.7000	134.7600	
				15	32.62	130.16		15	34.23	134.76		15	32.6200	130.1600		15	34.2300	134.7600	
				16	33.16	130.16						16	33.1600	130.1600					
				17	33.70	130.16						17	33.7000	130.1600					
				18	31.54	130.82						18	31.5400	130.8200					
				19	32.08	130.82						19	32.0800	130.8200					
				20	32.62	130.82						20	32.6200	130.8200					
				21	33.16	130.82						21	33.1600	130.8200					
				22	33.70	130.82						22	33.7000	130.8200					
				23	31.54	131.47						23	31.5400	131.4700					
				24	32.08	131.47						24	32.0800	131.4700					
				25	32.62	131.47						25	32.6200	131.4700					
				26	33.16	131.47						26	33.1600	131.4700					
				27	33.70	131.47						27	33.7000	131.4700					
				28	28.84	128.84						28	28.8400	128.8400					
				29	28.84	129.50						29	28.8400	129.5000					
				30	29.38	129.50						30	29.3800	129.5000					
				31	29.92	129.50						31	29.9200	129.5000					
				32	29.92	130.16						32	29.9200	130.1600					

・有効桁数を増加

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(8/17) - グリッド定義表の更新

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3 ,2018	改訂後	備考																																																																																																																																																																																																																																																																																
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1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



■ 新旧対照表(9/17) - グリッド定義表の更新

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1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



■ 新旧対照表(10/17) - グリッド定義表の更新

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3, 2018				改訂後				備考							
			Compact Network ID	GRID No.	Latitude	Longitude	Compact Network ID	GRID No.	Latitude	Longitude		Compact Network ID	GRID No.	Latitude	Longitude			
8 続き	66	4.1.4	9	1	39.09	140.03	10	1	42.32	139.37	9	1	39.0900	140.0300	有効桁数を増加			
				2	39.62	140.03		2	41.78	140.03		2	39.6200	140.0300		2	41.7800	140.0300
				3	40.16	140.03		3	42.32	140.03		3	40.1600	140.0300		3	42.3200	140.0300
				4	40.70	140.03		4	42.86	140.03		4	40.7000	140.0300		4	42.8600	140.0300
				5	41.24	140.03		5	41.78	140.69		5	41.2400	140.0300		5	41.7800	140.6900
				6	39.09	140.69		6	42.32	140.69		6	39.0900	140.6900		6	42.3200	140.6900
				7	39.62	140.69		7	42.86	140.69		7	39.6200	140.6900		7	42.8600	140.6900
				8	40.16	140.69		8	43.40	140.69		8	40.1600	140.6900		8	43.4000	140.6900
				9	40.70	140.69		9	41.78	141.34		9	40.7000	140.6900		9	41.7800	141.3400
			10	41.24	140.69	10	42.32	141.34	10	41.2400		140.6900	10	42.3200		141.3400		
			11	39.09	141.34	11	42.86	141.34	11	39.0900		141.3400	11	42.8600		141.3400		
			12	39.62	141.34	12	43.40	141.34	12	39.6200		141.3400	12	43.4000		141.3400		
			13	40.16	141.34	13	43.94	141.34	13	40.1600		141.3400	13	43.9400		141.3400		
			14	40.70	141.34	14	42.32	142.00	14	40.7000		141.3400	14	42.3200		142.0000		
			15	41.24	141.34	15	42.86	142.00	15	41.2400		141.3400	15	42.8600		142.0000		
			16	39.09	142.00	16	43.40	142.00	16	39.0900		142.0000	16	43.4000		142.0000		
			17	39.62	142.00	17	43.94	142.00	17	39.6200		142.0000	17	43.9400		142.0000		
			18	40.16	142.00	18	42.32	142.66	18	40.1600		142.0000	18	42.3200		142.6600		
												19	42.8600	142.6600				
												20	43.4000	142.6600				
												21	41.7800	143.3200				
												22	42.3200	143.3200				
												23	42.8600	143.3200				

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(11/17) - グリッド定義表の更新

L/N	Page	Section	改訂前				改訂後				備考																																																																																																																																																																																																																																																																																		
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1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(12/17) - グリッド定義表の更新

L/N	Page	Section	改訂前				改訂後				備考						
			IS-QZSS-L6-001 Draft April 3, 2018														
8 続き	66	4.1.4	Compact Network ID	GRID No.	Latitude	Longitude	Compact Network ID	GRID No.	Latitude	Longitude	Compact Network ID	GRID No.	Latitude	Longitude	有効桁数を増加		
			9	1	39.09	140.03	10	1	42.32	139.37	9	1	39.0900	140.0300			
				2	39.62	140.03		2	41.78	140.03		2	39.6200	140.0300			
				3	40.16	140.03		3	42.32	140.03		3	40.1600	140.0300			
				4	40.70	140.03		4	42.86	140.03		4	40.7000	140.0300			
				5	41.24	140.03		5	41.78	140.69		5	41.2400	140.0300			
				6	39.09	140.69		6	42.32	140.69		6	39.0900	140.6900			
				7	39.62	140.69		7	42.86	140.69		7	39.6200	140.6900			
				8	40.16	140.69		8	43.40	140.69		8	40.1600	140.6900			
				9	40.70	140.69		9	41.78	141.34		9	40.7000	140.6900			
				10	41.24	140.69		10	42.32	141.34		10	41.2400	140.6900			
				11	39.09	141.34		11	42.86	141.34		11	39.0900	141.3400			
				12	39.62	141.34		12	43.40	141.34		12	39.6200	141.3400			
				13	40.16	141.34		13	43.94	141.34		13	40.1600	141.3400			
				14	40.70	141.34		14	42.32	142.00		14	40.7000	141.3400			
				15	41.24	141.34		15	42.86	142.00		15	41.2400	141.3400			
				16	39.09	142.00		16	43.40	142.00		16	39.0900	142.0000			
				17	39.62	142.00		17	43.94	142.00		17	39.6200	142.0000			
				18	40.16	142.00		18	42.32	142.66		18	40.1600	142.0000			
								19	42.86	142.66		19					
								20	43.40	142.66		20					
								21	41.78	143.32		21					
								22	42.32	143.32		22					
					23	42.86	143.32		23								

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(13/17) - グリッド定義表の更新

L/N	Page	Section	改訂前				改訂後				備考																																																																																																																																																																												
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■ 新旧対照表(14/17) - グリッド定義表の更新

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1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(15/17) - ユーザアルゴリズムの改訂点

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3, 2018	改訂後	備考																		
9	81	5.5.1.1	<p>Table 5.5.1-1 and Table 5.5.1-2 show the parameters defined in the Compact SSR GNSS Clock Correction message and Compact SSR GNSS Combined message. Table 5.5.1-3 lists the parameter required for the calculations.</p> <p>The algorithms are same for GPS, QZSS (Block IIQ and Block IIG), Galileo, and GLONASS (CDMA).</p> <p>Table 5.5.1-1 Compact SSR GNSS Clock Correction message parameter</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Definition</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>C_0</td> <td>Compact SSR Delta Clock</td> <td>m</td> </tr> </tbody> </table>	Parameter	Definition	Unit	C_0	Compact SSR Delta Clock	m	<p>Table 5.5.1-1 and Table 5.5.1-2 show the parameters defined in the Compact SSR GNSS Clock Correction message and Compact SSR GNSS Combined message. Table 5.5.1-3 lists the parameter required for the calculations.</p> <p>The algorithms are same for GPS, QZSS (Block IIQ and Block IIG), Galileo, and GLONASS (CDMA).</p> <p>Table 5.5.1-1 Compact SSR GNSS Clock Correction message parameter</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Definition</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>C_0</td> <td>Compact SSR Delta Clock</td> <td>m</td> </tr> </tbody> </table> <p>Table 5.5.1-2 Compact SSR GNSS Combined message parameter</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Definition</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>$C_{0,k}$</td> <td>Compact SSR Delta Clock for a specific network k</td> <td>m</td> </tr> </tbody> </table>	Parameter	Definition	Unit	C_0	Compact SSR Delta Clock	m	Parameter	Definition	Unit	$C_{0,k}$	Compact SSR Delta Clock for a specific network k	m	サブタイプ11追加
Parameter	Definition	Unit																					
C_0	Compact SSR Delta Clock	m																					
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$C_{0,k}$	Compact SSR Delta Clock for a specific network k	m																					
10	81	5.5.1.2	<p>Satellite clock correction δC establishes the following relationship between the parameters of the compact SSR GNSS clock correction.</p> $\delta C = C_0$	<p>If "Network correction" and "Clock Existing Flag" in the sub type 11 message is equals to "1", the sub type 11 message includes "Compact SSR Delta Clock" in a specific network. The network is identified by "Network ID". The clock in the network k for satellite PRN is respectively defined by,</p> <p>if "Network correction" == 1 and "Clock Existing Flag" == 1 in a specific network</p> $C'_{0,k} = C_{0,k}$ <p>else</p> $C'_{0,k} = C_0$ <p>end</p>	Network correction=1の時は、サブタイプ11のパラメタを使用するように修正																		

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



新旧対照表(16/17) - ユーザアルゴリズムの改訂点

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3, 2018	改訂後	備考																																				
11	83	5.5.2.1	<p>Table 5.5.2-1 Compact SSR GNSS Orbit Correction message parameters</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Definition</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>δO_{radial}</td> <td>Compact SSR Delta Radial</td> <td>m</td> </tr> <tr> <td>δO_{along}</td> <td>Compact SSR Delta Along Track</td> <td>m</td> </tr> <tr> <td>δO_{cross}</td> <td>Compact SSR Delta Cross Track</td> <td>m</td> </tr> </tbody> </table>	Parameter	Definition	Unit	δO_{radial}	Compact SSR Delta Radial	m	δO_{along}	Compact SSR Delta Along Track	m	δO_{cross}	Compact SSR Delta Cross Track	m	<p>Table 5.5.2-1 Compact SSR GNSS Orbit Correction message parameters</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Definition</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>δO_{radial}</td> <td>Compact SSR Delta Radial</td> <td>m</td> </tr> <tr> <td>δO_{along}</td> <td>Compact SSR Delta Along Track</td> <td>m</td> </tr> <tr> <td>δO_{cross}</td> <td>Compact SSR Delta Cross Track</td> <td>m</td> </tr> </tbody> </table> <p>Table 5.5.2-2 Compact SSR GNSS Combined message parameters</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Definition</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>$\delta O_{radial,k}$</td> <td>Compact SSR Delta Radial for a specific network k</td> <td>m</td> </tr> <tr> <td>$\delta O_{along,k}$</td> <td>Compact SSR Delta Along Track for a specific network k</td> <td>m</td> </tr> <tr> <td>$\delta O_{cross,k}$</td> <td>Compact SSR Delta Cross Track for a specific network k</td> <td>m</td> </tr> </tbody> </table>	Parameter	Definition	Unit	δO_{radial}	Compact SSR Delta Radial	m	δO_{along}	Compact SSR Delta Along Track	m	δO_{cross}	Compact SSR Delta Cross Track	m	Parameter	Definition	Unit	$\delta O_{radial,k}$	Compact SSR Delta Radial for a specific network k	m	$\delta O_{along,k}$	Compact SSR Delta Along Track for a specific network k	m	$\delta O_{cross,k}$	Compact SSR Delta Cross Track for a specific network k	m	サブタイプ11のパラメタ追加
Parameter	Definition	Unit																																							
δO_{radial}	Compact SSR Delta Radial	m																																							
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12	83	5.5.1.2	<p>Satellite orbit correction δX at time t is calculated as follows:</p> $\delta X = [e_{radial} \ e_{along} \ e_{cross}] \begin{bmatrix} \delta O_{radial} \\ \delta O_{along} \\ \delta O_{cross} \end{bmatrix}$	<p>If “Network correction” and “Orbit Existing Flag” in the sub type 11 message is equals to “1”, the sub type 11 message includes “Compact SSR Delta Radial/Along-Track/Cross-Track” in a specific network. The network is identified by “Network ID”. The orbit in the network k for satellite PRN is respectively defined by,</p> <p>if “Network correction” == 1 and “Orbit Existing Flag”==1 in a specific network</p> $\begin{aligned} \delta O'_{radial,k} &= \delta O_{radial,k} \\ \delta O'_{along,k} &= \delta O_{along,k} \\ \delta O'_{cross,k} &= \delta O_{cross,k} \end{aligned}$ <p>else</p> $\begin{aligned} \delta O'_{radial,k} &= \delta O_{radial} \\ \delta O'_{along,k} &= \delta O_{along} \\ \delta O'_{cross,k} &= \delta O_{cross} \end{aligned}$ <p>end</p> <p>Satellite orbit correction δX at time t is calculated as follows:</p> $\delta X = [e_{radial} \ e_{along} \ e_{cross}] \begin{bmatrix} \delta O'_{radial,k} \\ \delta O'_{along,k} \\ \delta O'_{cross,k} \end{bmatrix}$	Network correction=1の時は、サブタイプ11のパラメタを使用するように修正																																				

1. IS-QZSS-L6 (Draft, August 31, 2018) の改訂点



■ 新旧対照表(17/17) - ユーザアルゴリズムの改訂点

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft April 3 ,2018	改訂後	備考
13	85	5.5.3.2	$\delta BIAS_{k,phase}^{PRN} = \delta BIAS_{k,phase}^{PRN}$ $- \{-\delta C_i^{PRN} - \delta X_i^{PRN} \cdot los_{user}^{PRN}(t)\}$ $- \{-\delta C_{i-1}^{PRN} - \delta X_{i-1}^{PRN} \cdot los_{user}^{PRN}(t-1)\}$	$\delta BIAS_{k,phase}^{PRN} = \delta BIAS_{k,phase}^{PRN}$ $- \{-\delta C_i^{PRN} - \delta X_i^{PRN} \cdot los_{user}^{PRN}(t)\}$ $- \{-\delta C_{i-1}^{PRN} - \delta X_{i-1}^{PRN} \cdot los_{user}^{PRN}(t-1)\}$	誤記修正 (大括弧追記)
14	88	5.5.4.2	<p>STEC Correction Type = 2:</p> $STEC_k^{PRN}(t) = C_{\delta 0}^{PRN}(t) + C_{\delta 1}^{PRN}(\varphi - \varphi_0)(t) + C_{\delta 10}^{PRN}(\lambda - \lambda_0)(t) + C_{\delta 11}^{PRN}(\varphi - \varphi_0)(\lambda - \lambda_0)(t) + \delta STEC_k^{PRN}(t)$ <p>with</p> <p>φ, λ : Grid coordinate (Latitude, Longitude)</p> <p>φ_0, λ_0 : Grid coordinate of the smallest Grid ID within each network (Latitude, Longitude) for which the coordinates are as defined in Section 4.1.4</p>	<p>STEC Correction Type = 2:</p> $STEC_k^{PRN}(t) = C_{\delta 0}^{PRN}(t) + C_{\delta 1}^{PRN}(\varphi - \varphi_0)(t) + C_{\delta 10}^{PRN}(\lambda - \lambda_0)(t) + C_{\delta 11}^{PRN}(\varphi - \varphi_0)(\lambda - \lambda_0)(t) + \delta STEC_k^{PRN}(t)$ <p>with</p> <p>φ, λ : Grid coordinate (Latitude, Longitude)</p> <p>φ_0, λ_0 : Grid coordinate of the smallest Grid ID within each network (Latitude, Longitude) for which the coordinates are as defined in Section 4.1.4</p> <p>Note: If STEC Network Correction is not defined at a specific network, it should be defined as zero.</p>	STEC Network Correctionが存在しない時の定義についての補足説明を追記



2. IS-QZSS-L6 (November 5, 2018) 改訂内容



IS-QZSS-L6の構成

1. 範囲
2. 関連文書・用語の定義
3. 信号仕様
 - 3.1 RF特性
 - 3.2 PRNコード
4. メッセージ仕様
 - 4.1 L6Dメッセージ
 - ・メッセージ構造
 - ・メッセージ内容
 - ・ヘッダ部
 - ・データ部
 - ・リードソロン符号
 - ・グリッド定義
 - 4.2 L6Eメッセージ
 - ・メッセージ構造
 - ・メッセージ内容
5. ユーザアルゴリズム
 - 5.1 時刻系
 - 5.2 測地系
 - 5.3 定数
 - 5.4 インテグリティ
 - 5.5 Compact SSRメッセージによる計算アルゴリズム

2. IS-QZSS-L6 (November 5, 2018) の改訂点



Message Generation Facility IDの切り替わり時の処理(4.1.2.1項)

- ・L6メッセージのヘッダ部に含まれるMessage Generation Facility IDの切り替わり時の処理について、補足説明を追記します。
- ・ユーザは、Message Generation Facility IDの切り替えを検知した時、過去に受信している補強メッセージを有効期間内、使用し続けることが可能です。

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft August 31 ,2018	改訂後	備考
1	22	4.1.2.1	<p>(3) L6 Message Type ID Each message has an 8-bit L6 message type ID immediately following the PRN. Table 4.1.2-2 lists the definitions of the L6 message type ID parameters.</p> <p>The first 3-bit are the vendor ID for CLAS. The following 2-bit indicate the message generation facility, which will be either the Hitachi-Ota Master Control Station (MCS) or the Kobe MCS. The following 2-bit are reserved for future use. The last 1-bit is the indicator for the subframe header. If the value of this indicator is "1", the message is the start of a subframe. In the user algorithm, the data in the subsequent L6 messages cannot be mixed if the following conditions are satisfied</p>	<p>(3) L6 Message Type ID Each message has an 8-bit L6 message type ID immediately following the PRN. Table 4.1.2-2 lists the definitions of the L6 message type ID parameters.</p> <p>The first 3-bit are the vendor ID for CLAS. The following 2-bit indicate the message generation facility, which will be either the Hitachi-Ota Master Control Station (MCS) or the Kobe MCS. The following 2-bit are reserved for future use. The last 1-bit is the indicator for the subframe header. If the value of this indicator is "1", the message is the start of a subframe. In the user algorithm, the data in the subsequent L6 messages <u>cannot be mixed and the previous L6 frame data should be still used if the following conditions are satisfied in the current L6 frame.</u></p>	Message Generation Facility ID切り替え時のメッセージの使用方法について補足説明を追記

2. IS-QZSS-L6 (November 5, 2018) の改訂点



■ ヌルメッセージ受信時の処理(4.1.2.3項)

- ・衛星よりヌルメッセージが送信された場合の補強メッセージの使用方法について、補足説明を追記します。
- ・ユーザはヌルメッセージ受信時、過去に受信している補強メッセージを有効期間内 (Table 4.1.1-2に記載)、使用し続けられるということを明示します。
- ・なお、ヌルメッセージ受信時に限らず、遮蔽物等で補強メッセージを受信できなかった場合も同様です。各補強メッセージの有効期間内であれば、各メッセージは使用し続けられます。

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft August 31 ,2018	改訂後	備考
2	55	4.1.2.3	<p>If there is no CLAS information to be transmitted, as determined by the satellite system side, a null message is sent.</p> <p>The following events are envisaged in the situation when there is no CLAS information to be transmitted.</p>	<p>If there is no CLAS information to be transmitted, as determined by the satellite system side, a null message is sent. <u>The nominal validity interval of each message after a null message is shown in Table 4.1.1-2. User can use the message within the nominal validity interval.</u></p> <p>The following events are envisaged in the situation when there is no CLAS information to be transmitted.</p>	補足説明を追記

2. IS-QZSS-L6 (November 5, 2018) の改訂点



品質評価指標の使用方法に関する計算式追加(5.4項)

- 品質評価指標(SSR URA・SSR STEC Quality Indicator・SSR Tropospheric Delay Quality Indicator)の使用方法として、衛星毎のレンジング誤差(測距誤差値)の見積もり値の計算式を追記します。

5.4. Integrity

Integrity for CLAS is implemented with a flag-type-based method indicated in this section and a message-type-based method specified in the applicable document (2) and (3). Integrity information in CLAS consists of the Alert flag described in Section 5.4.1., the quality indicators in compact SSR messages as defined in Sections 5.4.2. and 5.4.3., and the null message.

Integrity information can be commonly used in any application. Implementation of processing related to integrity information is not indispensable, but there are usage as follows.

The ranging error for satellite "i" can be estimated by the user receiver as follows:

追記

$$\sigma_i = \sqrt{(\sigma_{i,user})^2 + (\sigma_{i,sis}/10)^2 + \left(\frac{40.3 \times 10^{16}}{f^2} \sigma_{i,iono} \times 100\right) + ((\sigma_{i,trop}/10)/\sin E_i)^2}$$

Where, $\sigma_{i,user}$ is local error such as multipath in [cm], $\sigma_{i,sis}$ is SIS (Signal In Space) error such as orbit, clock and signal bias of satellite provided by the Compact SSR GNSS URA message in [mm], $\sigma_{i,iono}$ is ionospheric delay estimation error provided by the Compact SSR STEC Correction message in [TECU], $\sigma_{i,trop}$ is tropospheric delay estimation error provided by the Compact SSR Gridded Correction message in [mm]. E_i is the satellite elevation angle in [rad]. The first term $\sigma_{i,user}$ should be defined in the user receiver, the other term is provided by CLAS.

If the estimated ranging error exceeds the user defined threshold for each application, user receivers can, for example, (a) discard the compact SSR message, (b) decrease the weight of the corresponding satellite observation in the positioning process, or (c) avoid fixing the corresponding satellite carrier phase ambiguities in the positioning process.

2. IS-QZSS-L6 (November 5, 2018) の改訂点



■ グリッド定義表の更新(有効桁数を2桁に変更)

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft August 31 ,2018	改訂後	備考																																																																																																																																						
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※再度、2桁に変更しました。

2. IS-QZSS-L6 (November 5, 2018) の改訂点



■ グリッド定義表の更新(有効桁数を2桁に変更)

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2. IS-QZSS-L6 (November 5, 2018) の改訂点



■ グリッド定義表の更新(有効桁数を2桁に変更)

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2. IS-QZSS-L6 (November 5, 2018) の改訂点



■ グリッド定義表の更新(有効桁数を2桁に変更)

L/N	Page	Section	改訂前 IS-QZSS-L6-001 Draft August 31 ,2018	改訂後	備考																																																																																																																																																																																																																																																																																		
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2. IS-QZSS-L6 (November 5, 2018) の改訂点



■ グリッド定義表の更新(有効桁数を2桁に変更)

L/N	Page	Section	改訂前				改訂後				備考				
			IS-QZSS-L6-001 Draft August 31, 2018												
1 続き	65	4.1.4	Compact Network ID	GRID No.	Latitude	Longitude	Compact Network ID	GRID No.	Latitude	Longitude	有効桁数を2桁に変更				
			9	1	39.0900	140.0300	10	1	42.3200	139.3700		9	1	39.09	140.03
				2	39.6200	140.0300		2	41.7800	140.0300			2	39.62	140.03
				3	40.1600	140.0300		3	42.3200	140.0300			3	40.16	140.03
				4	40.7000	140.0300		4	42.8600	140.0300			4	40.70	140.03
				5	41.2400	140.0300		5	41.7800	140.6900			5	41.24	140.03
				6	39.0900	140.6900		6	42.3200	140.6900			6	39.09	140.69
				7	39.6200	140.6900		7	42.8600	140.6900			7	39.62	140.69
				8	40.1600	140.6900		8	43.4000	140.6900			8	40.16	140.69
				9	40.7000	140.6900		9	41.7800	141.3400			9	40.70	140.69
				10	41.2400	140.6900		10	42.3200	141.3400			10	41.24	140.69
				11	39.0900	141.3400		11	42.8600	141.3400			11	39.09	141.34
				12	39.6200	141.3400		12	43.4000	141.3400			12	39.62	141.34
				13	40.1600	141.3400		13	43.9400	141.3400			13	40.16	141.34
				14	40.7000	141.3400		14	42.3200	142.0000			14	40.70	141.34
				15	41.2400	141.3400		15	42.8600	142.0000			15	41.24	141.34
				16	39.0900	142.0000		16	43.4000	142.0000			16	39.09	142.00
				17	39.6200	142.0000		17	43.9400	142.0000			17	39.62	142.00
18	40.1600	142.0000		18	42.3200	142.6600		18	40.16	142.00					
			19	42.8600	142.6600	19			19	42.86	142.66				
			20	43.4000	142.6600	20			20	43.40	142.66				
			21	41.7800	143.3200	21			21	41.78	143.32				
			22	42.3200	143.3200	22			22	42.32	143.32				
			23	42.8600	143.3200	23			23	42.86	143.32				

2. IS-QZSS-L6 (November 5, 2018) の改訂点



■ グリッド定義表の更新(有効桁数を2桁に変更)

L/N	Page	Section	改訂前				改訂後				備考																																																																																																																																																										
			IS-QZSS-L6-001 Draft August 31, 2018																																																																																																																																																																		
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2. IS-QZSS-L6 (November 5, 2018) の改訂点



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			IS-QZSS-L6-001 Draft August 31 ,2018																																																																																																																																
1 続き	66	4.1.4	<table border="1"> <thead> <tr> <th>Compact Network ID</th> <th>GRID No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td rowspan="13">13</td><td>1</td><td>43.4000</td><td>145.9500</td></tr> <tr><td>2</td><td>43.9400</td><td>145.9500</td></tr> <tr><td>3</td><td>44.4800</td><td>145.9500</td></tr> <tr><td>4</td><td>43.9400</td><td>146.6100</td></tr> <tr><td>5</td><td>44.4800</td><td>146.6100</td></tr> <tr><td>6</td><td>45.0100</td><td>146.6100</td></tr> <tr><td>7</td><td>44.4800</td><td>147.2700</td></tr> <tr><td>8</td><td>45.0100</td><td>147.2700</td></tr> <tr><td>9</td><td>45.0100</td><td>147.9200</td></tr> <tr><td>10</td><td>45.5500</td><td>147.9200</td></tr> <tr><td>11</td><td>45.0100</td><td>148.5800</td></tr> <tr><td>12</td><td>45.5500</td><td>148.5800</td></tr> <tr><td>13</td><td>45.5500</td><td>149.2400</td></tr> </tbody> </table>				Compact Network ID	GRID No.	Latitude	Longitude	13	1	43.4000	145.9500	2	43.9400	145.9500	3	44.4800	145.9500	4	43.9400	146.6100	5	44.4800	146.6100	6	45.0100	146.6100	7	44.4800	147.2700	8	45.0100	147.2700	9	45.0100	147.9200	10	45.5500	147.9200	11	45.0100	148.5800	12	45.5500	148.5800	13	45.5500	149.2400	<table border="1"> <thead> <tr> <th>Compact Network ID</th> <th>GRID No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td>14</td><td>1</td><td>37.2400</td><td>131.8700</td></tr> <tr><td>15</td><td>1</td><td>25.9600</td><td>131.3100</td></tr> <tr><td>16</td><td>1</td><td>25.7300</td><td>123.5400</td></tr> <tr><td>17</td><td>1</td><td>24.7700</td><td>141.3400</td></tr> <tr><td>18</td><td>1</td><td>24.2800</td><td>153.9900</td></tr> <tr><td>19</td><td>1</td><td>20.4400</td><td>136.0900</td></tr> </tbody> </table>				Compact Network ID	GRID No.	Latitude	Longitude	14	1	37.2400	131.8700	15	1	25.9600	131.3100	16	1	25.7300	123.5400	17	1	24.7700	141.3400	18	1	24.2800	153.9900	19	1	20.4400	136.0900	<table border="1"> <thead> <tr> <th>Compact Network ID</th> <th>GRID No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td rowspan="13">13</td><td>1</td><td>43.40</td><td>145.95</td></tr> <tr><td>2</td><td>43.94</td><td>145.95</td></tr> <tr><td>3</td><td>44.48</td><td>145.95</td></tr> <tr><td>4</td><td>43.94</td><td>146.61</td></tr> <tr><td>5</td><td>44.48</td><td>146.61</td></tr> <tr><td>6</td><td>45.01</td><td>146.61</td></tr> <tr><td>7</td><td>44.48</td><td>147.27</td></tr> <tr><td>8</td><td>45.01</td><td>147.27</td></tr> <tr><td>9</td><td>45.01</td><td>147.92</td></tr> <tr><td>10</td><td>45.55</td><td>147.92</td></tr> <tr><td>11</td><td>45.01</td><td>148.58</td></tr> <tr><td>12</td><td>45.55</td><td>148.58</td></tr> <tr><td>13</td><td>45.55</td><td>149.24</td></tr> </tbody> </table>				Compact Network ID	GRID No.	Latitude	Longitude	13	1	43.40	145.95	2	43.94	145.95	3	44.48	145.95	4	43.94	146.61	5	44.48	146.61	6	45.01	146.61	7	44.48	147.27	8	45.01	147.27	9	45.01	147.92	10	45.55	147.92	11	45.01	148.58	12	45.55	148.58	13	45.55	149.24	・有効桁数を2桁に変更
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3. PS-QZSS (Draft, August 31, 2018) 改訂内容



概要

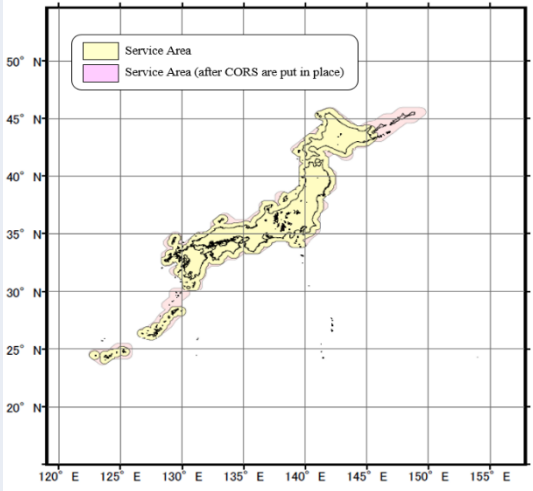
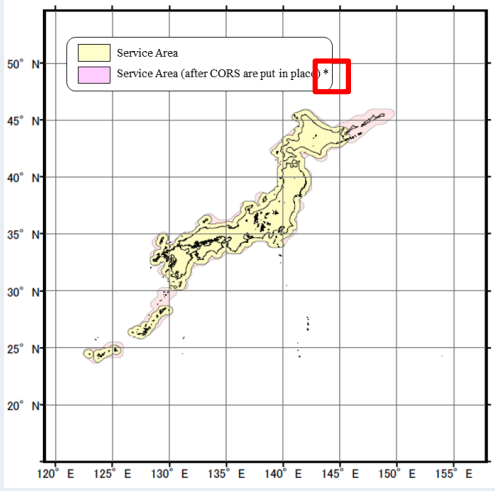
ユーザ問い合わせ事項の反映として、以下の点について追記しました。

- (1) サービス範囲を示す図(Figure 6.2-1)において、電子基準点整備後に満たすサービス範囲としていた範囲の補足説明を追記しています(6.2項)。
- (2) CLASの精度を満足するための前提条件について、インフラ側の想定条件を追記しています(6.3項)。

3. PS-QZSS (Draft, August 31, 2018) の改訂点



電子基準点が整備された場合のサービス範囲について (6.2項)

L/N	Page	Section	改訂前 PS-QZSS-001 (Draft Edition, April 6, 2018)	改訂後
1	19	6.2	CLAS will be available in the area depicted in Figure 6.2-1. 	CLAS will be available in the area depicted in Figure 6.2-1. 

*Around islands such as Northern Territories and Tokara Islands, and regions with an altitude of 2000 meters or more

3. PS-QZSS (Draft, August 31, 2018) の改訂点



CLASの精度を満たすための利用条件について (6.3項)

6.3. Accuracy

CLAS Positioning accuracy is shown in Table. 6.3-1.

Table. 6.3-1 Positioning Accuracy

Positioning Type	Positioning Error		Remark
	Horizontal	Vertical	
Static	≤ 6cm(95%) (3.47cm(RMS))	≤ 12cm(95%) (6.13cm(RMS))	(*)(**)
Kinematic	≤ 12cm(95%) (6.94cm(RMS))	≤ 24cm(95%) (12.25cm(RMS))	(*)(**)

(*) The augmentation information shall satisfy the following condition.

- SIR_URE ≤ 0.08m (95%)

(**) Usage assumptions to achieve the accuracy are as follows :

- All the augmented satellites (GNSSs) are used in the PPP-RTK positioning.
- A minimum number of satellites with no cycle slips : ≥ 5
- Elevation mask angle : 15°
- Average Dilution of Precision (DOP) by augmented satellites :
 - ≤ 1.1 for Horizontal
 - ≤ 1.8 for Vertical
- Multipath :
 - ≤ 0.34m (RMS) for pseudorange per augmented satellite
 - ≤ 0.75cm (RMS) for carrier phase per augmented satellite
- Receiver noise :
 - ≤ 0.30cm (RMS) for carrier phase per augmented satellite
- Antenna phase center variation (PCV) error :
 - ≤ 0.30cm (RMS) for each frequency

(*) インフラ側仕様

← ユーザレンジエラー (測距精度) のバジェット配分値

(**) ユーザ受信機想定

← 測位方式 (PPP-RTK) 上の最低必要衛星数

← 衛星配置の想定

← マルチパス環境の想定

← 位相検出誤差など受信機ノイズの想定

← アンテナ位相中心誤差の想定



(参考) 観測データ品質評価の簡易手法

前ページに示す条件の検証は、ユーザにより容易でないことから、ここではより簡便なものとして、オープンソースであるteqc*を使用し検証する場合の指標をご紹介します。

CLAS対応開発受信機/アプリの試験・検証時にご参考ください。

- (1) 可視性: オープンスカイ条件として以下の (a), (b) を満たすこと
 - (a) 仰角30度以上の衛星可視割合が、仰角5度おきの評価区間 (例: 90~85度区間、85~80度区間、等) において全て85%以上
 - (b) 仰角15~30度の平均で衛星可視割合が85%以上
- (2) 信号強度(C/N0比): 以下の (c), (d) の条件を満たすこと
 - (c) 仰角85~90度のC/N0がL1:平均40 [dBHz] 以上, L2:平均35 [dBHz] 以上
 - (d) 仰角15~30度でC/N0がL1:平均25 [dBHz] 以上, L2:平均20 [dBHz] 以上
- (3) マルチパス(擬似距離): 以下の (e), (f) の条件を満たすこと
 - (e) 仰角15~30度でマルチパスが平均1 [m] 未満
 - (f) 仰角45~90度の5度幅の区間でマルチパスが平均0.5 [m] を超える区間がない
- (4) サイクルスリップ(搬送波位相): 以下の (g), (h) の条件を満たすこと
 - (g) 仰角15度以上のサイクルスリップ数合計(1日あたり)が100未満
 - (h) 仰角45度以上の5度幅の区間でサイクルスリップ数(1日あたり)が20を超える区間がない

注) 数値は国内電子基準点評価時の場合

* <https://www.unavco.org/software/data-processing/teqc/teqc.html>



4. PS-QZSS (November 5, 2018) 改訂内容

4. PS-QZSS (November 5, 2018) の改訂点



用語の修正(6.4 Availability「Table6.4-1」)

- ・「全て」の英訳について、「any」ではユーザによって解釈に誤解を生じる可能性があることから、直感的な「all」へと修正します。

L/N	Section	項目	改訂前	改訂後														
1	6.4	Availability	<p>Table 6.4-1 Definition of unhealthy conditions</p> <table border="1"> <tr> <td rowspan="3">Unhealthy</td> <td>System maintenance</td> <td>(1) When the service is outage in scheduled system interruption. (2) The alert flag is "1" in this case.</td> </tr> <tr> <td>System error</td> <td>(3) When an L6 signal is transmitted by a non-standard PRN code. (4) When the null message is transmitted for 3 seconds or longer.</td> </tr> <tr> <td>Service error</td> <td>SIR-URE(Signal In Reference User Range Error) of more than $\pm 0.468\text{m}$ at 3 or more augmented satellites among at least 2 GNSS. When the number of augmented satellites is less than 5 at any location in the service area. The alert flag is "1" in these case.</td> </tr> </table>	Unhealthy	System maintenance	(1) When the service is outage in scheduled system interruption. (2) The alert flag is "1" in this case.	System error	(3) When an L6 signal is transmitted by a non-standard PRN code. (4) When the null message is transmitted for 3 seconds or longer.	Service error	SIR-URE(Signal In Reference User Range Error) of more than $\pm 0.468\text{m}$ at 3 or more augmented satellites among at least 2 GNSS. When the number of augmented satellites is less than 5 at any location in the service area. The alert flag is "1" in these case.	<p>Table 6.4-1 Definition of unhealthy conditions</p> <table border="1"> <tr> <td rowspan="3">Unhealthy</td> <td>System maintenance</td> <td>(1) When the service is outage in scheduled system interruption. (2) The alert flag is "1" in this case.</td> </tr> <tr> <td>System error</td> <td>(3) When an L6 signal is transmitted by a non-standard PRN code. (4) When the null message is transmitted for 3 seconds or longer.</td> </tr> <tr> <td>Service error</td> <td>SIR-URE(Signal In Reference User Range Error) of more than $\pm 0.468\text{m}$ at 3 or more augmented satellites among at least 2 GNSS. When the number of augmented satellites is less than 5 at <u>all locations</u> in the service area. The alert flag is "1" in these case.</td> </tr> </table>	Unhealthy	System maintenance	(1) When the service is outage in scheduled system interruption. (2) The alert flag is "1" in this case.	System error	(3) When an L6 signal is transmitted by a non-standard PRN code. (4) When the null message is transmitted for 3 seconds or longer.	Service error	SIR-URE(Signal In Reference User Range Error) of more than $\pm 0.468\text{m}$ at 3 or more augmented satellites among at least 2 GNSS. When the number of augmented satellites is less than 5 at <u>all locations</u> in the service area. The alert flag is "1" in these case.
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4. PS-QZSS (November 5, 2018) の改訂点



サービス中断を示す条件の追加(6.5 Continuity「Table 6.5-1」)

- ・メッセージの有効期間について、サービス中断の条件に反映したことに伴い、「不健康(unhealthy)」の条件 (Table 6.4-1) とは別に、「サービス中断(interruption)」の条件を追加します。

L/N	Section	項目	改訂前	改訂後								
2	6.5	continuity	<p>6.5. Continuity</p> <p>The continuity of L6 signals shall satisfy the following conditions. The following values shall be applied to L6 signal and each QZS in any one hour.</p> <ul style="list-style-type: none"> • $\geq 1-0.875 \times 10^{-3}$ [hour] (Block I) • $\geq 1-2 \times 10^{-4}$ [hour] (Block II) <p>When a system maintenance defined in Section 6.4.1 is predicted and the notification has been announced to users at least 48 hours before the outage, that period shall be excluded in the continuity.</p>	<p>6.5. Continuity</p> <p>The continuity of L6 signals shall satisfy the following conditions. The following values shall be applied to L6 signal and each QZS in any one hour.</p> <ul style="list-style-type: none"> • $\geq 1-0.875 \times 10^{-3}$ [hour] (Block I) • $\geq 1-2 \times 10^{-4}$ [hour] (Block II) <p>The interruption conditions of L6 signal are defined as interruption in Table 6.5-1.</p> <p>Table 6.5-1 Definition of interruption conditions</p> <table border="1"> <thead> <tr> <th>Interruption</th> <th>System maintenance</th> <th>System error</th> <th>Service error</th> </tr> </thead> <tbody> <tr> <td></td> <td>(1) When the service is outage in scheduled system interruption. (2) The alert flag is "1" in this case.</td> <td>(3) When an L6 signal is transmitted by a non-standard PRN code. (4) When MT4073.3 in an L6 signal is not transmitted more than twice continuously.* (5) When any of MT4073.2 or MT4073.4~6 or MT4073.8~9, or MT4073.11 in an L6 signal is not transmitted more than twice continuously.**</td> <td>SIR-URE(Signal In Reference User Range Error) of more than ± 0.468m at 3 or more augmented satellites among at least 2 GNSS. When the number of augmented satellites is less than 5 at all locations in the service area. The alert flag is "1" in these case.</td> </tr> </tbody> </table> <p>* This means that an L6 signal is not transmitted for more than 6 seconds. ** This means that an L6 signal is not transmitted for more than 31 seconds.</p> <p>When a system maintenance defined in Table 6.5-1 is predicted and the notification has been announced to users at least 48 hours before the outage, that period shall be excluded in the continuity.</p>	Interruption	System maintenance	System error	Service error		(1) When the service is outage in scheduled system interruption. (2) The alert flag is "1" in this case.	(3) When an L6 signal is transmitted by a non-standard PRN code. (4) When MT4073.3 in an L6 signal is not transmitted more than twice continuously.* (5) When any of MT4073.2 or MT4073.4~6 or MT4073.8~9, or MT4073.11 in an L6 signal is not transmitted more than twice continuously.**	SIR-URE(Signal In Reference User Range Error) of more than ± 0.468 m at 3 or more augmented satellites among at least 2 GNSS. When the number of augmented satellites is less than 5 at all locations in the service area. The alert flag is "1" in these case.
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