

1.7 Confirmation of the Consistency with the Survey Results in 1996 - 1998

- 1) Regarding the coordinate results of SLR external geodetic survey monuments (short pillars, long pillars) observed in 1999 survey, the discrepancy of the coordinates have been examined to confirm the consistency with the coordinate results observed in the survey conducted respectively in 1996 - 1998.

Table 14 shows the discrepancy of the coordinate results of horizontal coordinate system (with geoid correction) gained at each observation station respectively in each of these years.

Table 14 Discrepancy between the coordinates observed in 1999 and 1996 - 1998

(unit: mm)

Name of point	Year	Koganei station			Kashima station			Miura station			Tateyama station		
		N	E	U	N	E	U	N	E	U	N	E	U
SLR-S1	1996	-2.4	0.3	0.8	-0.3	1.2	0.2	-1.8	0.9	0.2	0.4	2.6	-0.4
	1997	-2.7	0.4	0.1	-0.1	0.4	0.0	-0.6	0.6	0.0	0.7	2.4	-0.4
	1998	-2.5	0.4	-0.1	-0.1	0.2	0.0	-0.1	0.9	0.2	0.5	2.2	-0.3
SLR-S2	1996	-6.5	5.5	-0.2	0.9	-0.7	0.0	-1.0	2.3	-0.1	-0.1	0.3	0.4
	1997	-4.5	2.0	0.1	0.7	-0.8	0.1	-0.3	1.6	-0.2	0.3	0.9	0.2
	1998	-4.5	1.8	0.2	0.5	-0.6	-0.1	0.1	1.5	0.0	0.5	1.1	0.0
SLR-S3	1996	-	-	-	-	-	-	-	-	-	-1.5	0.8	-0.2
	1997	-	-	-	-	-	-	-	-	-	-1.9	1.4	-0.1
	1998	-	-	-	-	-	-	-	-	-	-2.4	2.4	-0.1
SLR-L1	1996	-2.5	-1.5	-0.6	0.7	0.9	0.1	-2.3	-0.4	0.1	3.0	3.6	-0.6
	1997	-1.9	-0.3	-0.1	0.3	0.2	-0.1	-1.3	0.0	-0.5	2.3	2.8	-0.3
	1998	-2.3	0.8	-0.3	0.3	0.1	0.0	-0.6	0.6	0.0	1.8	2.2	-0.1
SLR-L2	1996	-4.0	3.3	-0.4	2.1	-0.7	-0.1	-0.7	2.2	0.4	-	-	-
	1997	-3.0	1.8	0.1	1.0	-0.7	0.0	-0.3	1.1	-0.3	-	-	-
	1998	-3.6	2.3	-0.4	0.6	-0.6	-0.1	-0.4	1.1	0.0	-	-	-
SLR-L3	1996	0.0	0.9	0.2	-2.1	-2.0	-0.2	0.0	0.3	0.1	-1.2	0.6	-1.5
	1997	-0.5	0.6	0.2	-0.9	-1.0	-0.2	-0.3	-0.2	-0.2	-2.7	1.9	-0.1
	1998	-0.3	0.8	0.0	-0.7	-1.2	-0.1	-0.2	0.0	0.0	-1.5	2.3	0.1

- 2) “-“ represents that the point is the station datum.
- 3) At Miura station and Tateyama station, systematic discrepancy could not be found and the coordinate discrepancy is also insignificantly small.
- 4) At Koganei station, systematic discrepancy is found in southeast direction.
- 5) At Tateyama station, systematic discrepancy is found to broaden in fan shape from the station datum.
- 6) Since the causes of systematic discrepancy at Koganei station and Tateyama station have not been found to a sufficient level, no corrections are made.