







- Realization	
The realizati	on was achieved by determining the coordinates of its origin and the 1 <sup>st</sup> order geodetic control points!!!
VLBI Observation	<ul> <li>Joint Geodetic Project of Korean and Japan in 1995</li> <li>CALC &amp; SOLVE S/W was used for data processing to estimate ITRF2000(epoch 1997.0) coordinate on 14 November 2000.</li> <li>ITRF2000(epoch 2002.0) coordinate was determined by including the crustal motion vector</li> </ul>
GPS Observation	<ul> <li>Coordinate of the origin point was determined by GPS &amp; TS observations in the end of 2002.</li> <li>Coordinates of 14 GPS CORS of NGII was estimated by processing GPS five days GPS observations</li> <li>The CORSs are served as the 1<sup>st</sup> order control point in KGD2002.</li> </ul>













BLOCK	Num. of Camps.	Num. of Points	BLOCK	Num. of Camps.	Num. of Points	and the second
1997-L	241	3	2004-2T	5	1,057	e't-Iblock Block SBlock (2005-T)
1998-L	435	5	2004-L	3	824	3Block (300h=1)
1999-L	292	5	2004 UR-L	1	43	07-2block (2003-27) (2004-27)
2000-L	430	6	2005-T	2	820	TBlock (2009-17)
2001-L	1,117	7	2005-L	3	1,062	1000ck 880ck (2000-1) 2 (1997-L) (2002-1) LINOCK (1998-()
2002-1T	569	4	2005 JJ-L	1	194	(2400CK) (2602-1-1) (2602-2-1) (2602-2-1) (2602-2-1)
2002-2T	792	5	06- 1Block	2	400	ob-Iblock
2003-1T	702	5	07- 1Block	6	1,074	· · · · · · · · · · · · · · · · · · ·
2003-2T	1,192	5	07- 2Block	4	469	∎ 81 campaigns
2004-1T	1,004	5	07-SA	1	180	■ 10,867 Points





Block	Num. of Points	Num. of outlier Identified			Block	Num. of	Num. of outlier identified		
Name		Campaign	Block	Total	Name	Points	Campaign	Block	Tota
1997-L	241	5	1	6	2004-2T	1057	0	0	0
1998-L	435	4	2	6	2004-L	824	4	6	10
1999-L	292	1	1	3	2004U-L	43	0	0	0
2000-L	430	12	0	12	2005-T	820	0	1	1
2001-L	1117	5	10	15	2005-L	1062	5	6	11
2002-1T	569	0	0	0	2005J-L	194	0	0	0
2002-2T	792	3	0	3	06-1B	400	6	3	9
2003-1T	702	1	2	3	07-1B	1,074	13	2	15
2003-2T	1192	1	0	1	07-2B	469	4	2	6
2004-1T	1004	3	5	8	07-SA	180	4	0	0



Component	Average	RMS	
Horizontal(2D)	0.031m	0.034m	
Vertical(1D)	0.046m	0.052m	
ummary of differ	ences between ti	e adjusted and predetermi	ined 2 <sup>nd</sup> order co
oints within the t	Jlock networks <mark>(t</mark>	<mark>stal 67points</mark> )	
Summary of differ	ences between ti	e adjusted and predetermi	ined 2 <sup>nd</sup> order co
oints within the t	block networks <mark>(t</mark>	stal 67points)	
Component	Average	RMS	
Summary of differ	ences between ti	e adjusted and predetermi	ined 2 <sup>nd</sup> order co
oints within the b	block networks (t	otal 67points)	
Component	Average	RMS	
Horizontal(2D)	0.036m	0.044m	

Min	imally Co	onstrain	ed Adj	ustment		/	
tatistical	summary of	relative c	onfidence	regions wi	th 95% prob	ability (un	it: m)
Block	Component	Mean	Std.	Block	Component	Mean	Std.
	Horizontal	0.006	0.001		Horizontal	0.006	0.001
1997-L	Vertical	0.014	0.003	2004U-L	Vertical	0.014	0.002
4000 1	Horizontal	0.006	0.001	0005 T	Horizontal	0.006	0.001
1998-L	Vertical	0.013	0.002	2005-1	Vertical	0.014	0.002
1999-L	Horizontal	0.006	0.001	0005.1	Horizontal	0.006	0.001
	Vertical	0.013	0.002	2005-L	Vertical	0.013	0.002
0000 1	Horizontal	0.006	0.002	0005.1	Horizontal	0.006	0.001
2000-L	Vertical	0.014	0.004	2005-L	Vertical	0.013	0.002
2004 1	Horizontal	0.006	0.002	2005 1	Horizontal	0.006	0.001
2001-L	Vertical	0.014	0.003	2005-L	Vertical	0.013	0.002
2002 47	Horizontal	0.006	0.001	2005.1.1	Horizontal	0.006	0.001
2002-11	Vertical	0.014	0.002	2005J-L	Vertical	0.015	0.002
0000 OT	Horizontal	0.006	0.001	00 41414	Horizontal	0.009	0.002
2002-21	Vertical	0.014	0.003	U6-1DIOCK	Vertical	0.021	0.013
2002 47	Horizontal	0.006	0.001	07 Ablack	Horizontal	0.006	0.003
2003-11	Vertical	0.013	0.002	07-TDIOCK	Vertical	0.014	0.006
2004 27	Horizontal	0.006	0.001	07 2block	Horizontal	0.004	0.001
2004-21	Vertical	0.013	0.002	07-2DIOCK	Vertical	0.009	0.002
2004 1	Horizontal	0.006	0.001	07.64	Horizontal	0.009	0.002
2004-L	Vertical	0.014	0.002	07-SA	Vertical	0.019	0.010



ummary	of Over	Constra	ined Ad	justments	5		
Adjustment Sequence	Block Network	Num. of Points	Num. of Baselines	Adjustment Sequence	Block Network	Num. of Points	Num. o Baselin
1	2003-2T	1,292	3,540	11	1998-L	435	1,233
2	2004-2T	1,057	3,057	12	2001-L	1,116	3,189
3	2004-L	824	2,238	13	1999-L	291	795
4	2005-L	1,062	3,082	14	1997-L	240	621
5	2005-T	820	2,175	15	2004U-L	32	87
6	2004-1T	1,004	2,697	16	2005J-L	188	540
7	2003-1T	902	2,469	17	2007-1	1,074	3,806
8	2002-1T	567	1,617	18	2007-2	469	1,475
9	2000-L	430	1,209	19	2006-1	400	1,284
10	2002-2T	794	2,223	20	2007-SA	180	447

Over C	Constrain	ed Adj	ustmen	t			
Statistical	summary of	absolute	confidenc	e regions w	vith 95% pro	bability (u	nit: m)
Block	Component	Mean	Std.	Block	Component	Mean	Std.
4007.1	Horizontal	0.006	0.001	2004 27	Horizontal	0.007	0.00'
1997-1	Vertical	0.023	0.003	2004-21	Vertical	0.015	0.00
4009 1	Hortzontal	0.007	0.002	2004 1	Horizontal	0.007	0.00
1998-L	Vertical	0.016	0.004	2004-L	Vertical	0.015	0.00
1000	Horizontal	0.007	0.002	2004111	Horizontal	0.006	0.00
1999-L	Vertical	0.015	0.004	- 20040-L	Vertical	0.015	0.00
2000 1	Horizontal	0.008	0.003	2005 T	Horizontal	0.006	0.00
2000-L	Vertical	0.017	0.007	2000-1	Vertical	0.014	0.00
2004 1	Hortzontal	0.007	0.002	2005 1	Horizontal	0.006	0.00
2001-L	Vertical	0.017	0.005	- 2000-L	Vertical	0.015	0.00
0000 47	Hortzontal	0.006	0.001	000511	Horizontal	0.007	0.00
2002-11	Vertical	0.015	0.003	- 2005J-L	Vertical	0.016	0.00
0000.07	Horizontal	0.007	0.002	08 Ablask	Horizontal	0.009	0.00
2002-21	Vertical	0.016	0.004	- 06-1010CK	Vertical	0.021	0.00
2003 AT	Horizontal	0.006	0.001	07 Ablask	Horizontal	0.006	0.00
2003-11	Vertical	0.014	0.003	- 07-10i0ck	Vertical	0.014	0.00
2009 AT	Hortzontal	0.006	0.001	07 Obleak	Horizontal	0.004	0.00
2003-21	Vertical	0.014	0.003	- U/-2010CK	Vertical	0.009	0.00
2004 AT	Horizontal	0.006	0.001	07.64	Horizontal	0.008	0.00
2004-11	Vertical	0.014	0.003	- U7-5A	Vertical	0.019	0.00









