

Local Ties at IVS Sites

Axel Nothnagel

Geodetic Institute of the University of Bonn



Summary

Basis ITRF2000 data files!

- 32 VLBI sites with **BL** location
- 29 fixed VLBI sites with permanent GPS
- 65 VLBI sites without permanent GPS
 - 42 mostly mobiles of early 80's
 - 23 fixed VLBI sites (see below)

Distance [m]	#
0 - 50	4
50 - 100	13
100 - 200	7
200 - 500	5

VLBI sites without GPS

KASHIMA	21701S001
MIZUSAWA	21702S009
KOGANEI	21704S004
MIYAZAKI	21718S001
NOBEYAMA	21725S001
SHINTOTSUKAWA	21731S001
CHICHIJIMA	21732S001
MINAMI TORI SIMA	21733S002
SAGARA	21737S001
MIURA	21739S001
TATEYAMA	21740S001
AIRA	21742S002
GOLDSTONE	40405S014
GREENBANK	40441S007
LOS ALAMOS, NM	40463S001
KITT PEAK	40466S001
HANCOCK	40471S001
BREWSTER	40473S001
PARKES	50108S001
SIMEIS	12337S008
YEBES	13420S001
EFFELSBERG	14209S001
URUMQI	21612S001

GPS available at IVS Sites I

Domes #			Distance [m]	Local Tie av.	σ
10317M003	NY-ALESUND	GPS NYA1	106.343	Yes	Yes
10402M004	ONSALA	GPS ONSA	22.008	Yes	No
12711M003	MEDICINA	GPS MEDI	62.765	Yes	Yes
12717M003	NOTO	GPS NOTO	70.207	Yes	No
12734M008	MATERA	GPS MATE	58.004	Yes	No
13407S012	MADRID-ROBLEDO	GPS MADR	265.513	not used	
14201M010	WETTZELL	GPS WTZR	139.438	Yes	No
21605M002	SHANGHAI	GPS SHAO	92.044	No	No
21729S007	USUDA	GPS USUD	104.749	No	No
21730S005	TSUKUBA	GPS TSKB	303.037	No	No
23903M001	SUWON-SHI	GPS SUWN	10.221	No	No
30302M004	HARTEBEESTHOEK	GPS HRAO	163.785	Yes	No
40104M002	ALGONQUIN	GPS ALGO	112.908	Yes	No
40105M002	PENTICTON	GPS DRAO	370.040	Yes	No

GPS available at IVS Sites II

Domes #				Distance [m]	Local Tie av.	σ
40405S031	GOLDSTONE	GPS	GOLD	411.520	??	??
40408M001	FAIRBANKS	GPS	FAIR	94.343	Yes	Yes
40424M004	KAUAI	GPS	KOKB	46.480	Yes	Yes
40440S020	WESTFORD	GPS	WES2	57.703	Yes	Yes
40451M123	WASHINGTON	GPS	GODE	33.231	Yes	No
40456M001	PIETOWN	GPS	PIE1	61.800	Yes	No
40465M001	NORTH LIBERTY	GPS	NLIB	67.303	Yes	No
40477M001	MAUNA KEA	GPS	MKEA	87.769	Yes	Yes
40499M005	RICHMOND	GPS	RCM4	142.300	Yes	No
41602M001	FORTALEZA	GPS	FORT	53.344	Yes	No
43201M001	SAINTE CROIX	GPS	CRO1	82.630	Yes	No
50103M108	CANBERRA	GPS	TIDB	375.774	No	No
50116M003	HOBART	GPS	HOB1	60.952	No	No
66006S002	SYOWA	GPS	SYOG	123.787	Yes	Yes
66008M001	O'HIGGINS	GPS	OHIG	51.730	Yes	No

