

Experiment in 2018

VLBI uncertainty is output of SOLVE software

MJD Reference Epoch 58406.2540

MJD Reference Epoch 14-15Oct.2018

		Value [0.1fs/s]	Error [1.e-16]
VLBI HM3(NICT)-HM(INAF)	VMF3(Dry+Wet+Grad)INAF	4137.1	3.9
IPPP			
Sr-HM13		-5008.7	2.3
Fiber Link HM(INAF)-HM3(INRiM)		9759.0	5.0
HM(3)-Yb		-8883.2	1.1
Sub Summary (Sr/Yb-1)	VMF3(Dry+Wet+Grad)INAF	4.2	6.8
Final Solution	VMF3(Dry+Wet+Grad)INAF	4.2	6.8

MJD Reference Epoch 58426.6659

4-5Nov.2018 IPPP

Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
4027.6	2.6		
		4029.7	2.3
-5010.9	2.8	-5010.9	2.8
9940.0	2.0	9940.0	2.0
-8964.4	1.4	-8964.4	1.4
-7.7	4.5		4.4
-7.7	4.5	-5.6	4.4

MJD Reference Epoch 58436.9371

14-15Nov.2018 IPPP

Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
3982.1	2.3		
		3991.1	3.4
-5015.1	0.6	-5015.1	0.6
10028.0	3.0	10028.0	3.0
-8993.5	1.0	-8993.5	1.0
1.5	4.0		4.7
1.5	4.0	10.5	4.7

MJD Reference Epoch 58446.8842

24-25Nov.2018 IPPP

Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
3921.7	2.8		
		3938.8	0.9
-4994.0	6.0	-4994.0	6.0
10113.5	4.4	10113.5	4.4
-9026.4	1.1	-9026.4	1.1
14.8	8.0		7.6
14.8	8.0	31.9	7.6

MJD Reference Epoch 58457.3954

4-6Dec.2018 IPPP

		Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
VLBI HM3(NICT)-HM(INAF)	VMF3(Dry+Wet+Grad)INAF	3863.5	2.2		
IPPP				3872.9	1.5
DMTD HM3(NICT)-HM15(NICT)		12773.9	0.9	12773.9	0.9
Sr-HM15		7773.2	0.5	7773.2	0.5
Fiber Link HM(INAF)-HM3(INRiM)		10173.0	8.0	10173.0	8.0
HM(3)-Yb		-9042.0	4.0	-9042.0	4.0
Summary (Sr/Yb-1)	VMF3(Dry+Wet+Grad)INAF	-6.2	9.3	3.2	9.1
Final Solution	VMF3(Dry+Wet+Grad)INAF	-6.2	9.3	3.2	9.1

MJD Reference Epoch 58467.6348

15-16Dec.2018 IPPP

Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
3814.8	1.6		
		3814.5	1.4
12880.4	0.8	12880.4	0.8
7880.0	1.0	7880.0	1.0
10264.0	3.0	10264.0	3.0
-9092.5	2.1	-9092.5	2.1
-14.1	4.2		4.1
-14.1	4.2	-14.4	4.1

MJD Reference Epoch 58477.8535

25-26Dec.2018 IPPP

Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
3784.4	1.9		
		3778.9	1.6
12933.6	0.6	12933.6	0.6
7950.2	1.5	7950.2	1.5
10369.0	3.0	10369.0	3.0
-9159.7	4.0	-9159.7	4.0
	1.2		
10.4	5.6		5.5
10.35	5.6	4.9	5.5

2nd
1st

MJD Reference Epoch 58498.8535

MJD Reference Epoch 58508.7208

MJD Reference Epoch 58528.87073

Experiment in 2019

15-16Jan.2019

IPPP

		Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
VLBI HM3(NICT)-HM(INAF)	VMF3(Dry+Wet+Grad)INAF	7175.5	1.5		
IPPP				7176.5	0.2
DMTD HM3(NICT)-HM15(NICT)	13.344(1)e-13 s/s	13084.0	0.9	13084.0	0.9
Sr-HM15	8.3937(24)e-13 s/s	8118.0	2.0	8118.0	2.0
Fiber Link HM(INAF)-HM3(INRiM)	7.2413(5)e-13 s/s	7050.0	6.0	7050.0	6.0
	7.251(6)e-13 s/s				
HM(3)-Yb	-9.29576(15)e-13 s/s	-9254.4	1.0	-9254.4	1.0
Summary (Sr/Yb-1)	VMF3(Dry+Wet+Grad)INAF	5.1	6.6	6.1	9.0
Final Solution	VMF3(Dry+Wet+Grad)INAF	5.1	6.6	6.1	9.0

25-26Jan.2019

IPPP

	Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
	7111.0	1.9		
			7106.0	0.2
	13158.8	0.8	13158.8	0.8
	8209.0	3.0	8209.0	3.0
	7131.0	3.0	7131.0	3.0
	-9275.9	0.6	-9275.9	0.6
	16.3	4.8	11.3	3.9
	16.35	4.8	11.3	3.9

14-15Feb.2019

IPPP

	Value [0.1fs/s]	Error [1.e-16]	Value [0.1fs/s]	Error [1.e-16]
	7007.0	1.9		
			7015.1	0.2
	13344.0	1.0	13344.0	1.0
	8393.7	1.3	8393.7	1.3
	7241.2	4.5	7241.2	4.5
	-9295.8	1.5	-9295.8	1.5
	2.1	5.4	10.3	5.3
	2.14	5.4	10.3	5.3

Sr/Yb-1 Summary

Year/Doy	MJD(mid)	Using VLBI [1.e-16]	uncertainty [1.e-16]	using IPPP [1.e-16]	uncertainty [1.e-16]
gv8288	2018/287	58,406.2540	4.2	6.8	
gv8308	2018/308	58,426.6659	-7.7	4.5	-5.6
gv8318	2018/318	58,436.9371	1.5	4.0	10.5
gv8328	2018/327	58,446.8842	14.8	8.0	31.9
gv8338	2018/338	58,457.3954	-6.2	9.3	3.2
gv8349	2018/349	58,467.6348	-14.1	4.2	-14.4
gv8359	2018/359	58,477.8535	10.4	5.6	4.9
gv9015	2019/015	58,498.8535	5.1	6.6	6.1
gv9025	2019/025	58,508.7208	16.3	4.8	11.3
gv9045	2019/045	58,518.7708	2.1	5.4	10.3
Weighted average		2.0	1.7	5.1	1.7
WRMS			9.9	11.7	
chi2			3.8	5.7	

VLBI uncertainty is computed from the output of SOLVE software

resd/sigma	1/sigma	resd/sigma	1/sigma
0.3271	0.14631709		
-2.1314	0.22054055	-2.4398	0.2288743
-0.1174	0.25278007	1.1556	0.21358941
1.5993	0.12460152	3.5393	0.13201392
-0.8809	0.10789552	-0.2070	0.10955985
-3.8281	0.23829796	-4.7139	0.24246432
1.5008	0.17897137	-0.0437	0.18205908
0.4724	0.15065299	0.1166	0.11105019
3.0254	0.21030506	1.6116	0.25742776
0.0327	0.186339	0.9813	0.19017457
0.0000	34.2813	1.8167	45.6543
WRMS	9.9	0.351575	11.7
chi2	3.8	1.7	5.7
WRMS			11.7
chi2			5.7