Fitting ionospheric phase screens with MSSS LBA data

Sebastiaan van der Tol George Heald Maaijke Mevius Adam Stewart Andra Stroe Jeremy Harwood

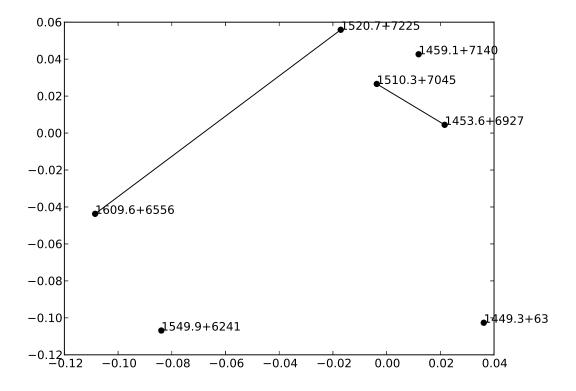
September 18, 2013



Calibrator sources

Calibrator sources

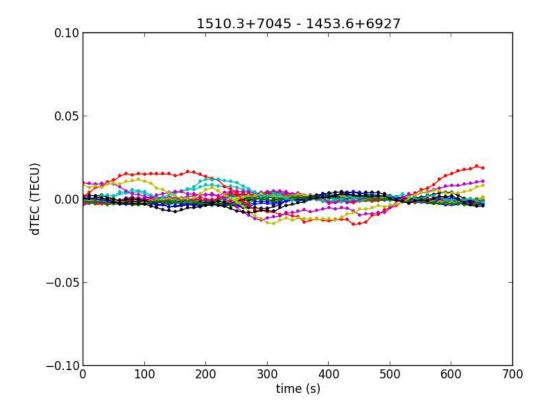
TEC difference between two sources 1510.3+7045-1453.6+6927 TEC difference between two sources 1520.7+7225 1609.6+6556 Imaging Results





TEC difference between two sources

Calibrator sources
TEC difference
between two sources
1510.3+70451453.6+6927
TEC difference
between two sources
1520.7+7225
1609.6+6556
Imaging Results





1510.3+7045-1453.6+6927

Calibrator sources TEC difference between two sources 1510.3+7045-1453.6+6927

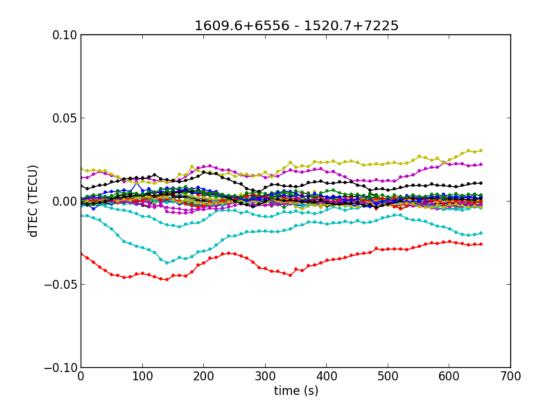
TEC difference between two sources 1520.7+7225 1609.6+6556 Imaging Results



TEC difference between two sources

Calibrator sources TEC difference between two sources 1510.3+7045-1453.6+6927

TEC difference between two sources 1520.7+7225 1609.6+6556 Imaging Results





1520.7+7225 1609.6+6556

Calibrator sources TEC difference between two sources 1510.3+7045-1453.6+6927 TEC difference between two sources 1520.7+7225 1609.6+6556

Imaging Results



Imaging Results

Calibrator sources TEC difference between two sources 1510.3+7045-1453.6+6927 TEC difference between two sources 1520.7+7225 1609.6+6556

Imaging Results

Ratio of peak flux and integrated flux

		97.63	SÝ.	0k7.	Ja Se	ŹŶ	8 ¹ 7	*\$6 \$6
		1490 × C. (194)	1453-6-694	1450.147140	1510.3+7045	15. V. X.	1540.97 (24)	1609.6+6556
Original		0.82	0.74	0.88	0.69	0.73	0.69	0.78
Corrected with BBS using TEC screen for the direction of:	1449.3 + 6316	0.88	0.69	0.94	0.64	0.82	0.79	0.82
	1453.6 + 6927	0.92	0.79	1.01	0.74	0.81	0.79	0.88
	1459.1 + 7140	0.94	0.83	1.04	0.76	0.83	0.81	0.89
	1510.3 + 7045	0.90	0.78	0.89	0.83	0.81	0.89	0.82
	1520.7 + 7225	0.95	0.80	0.96	0.78	0.85	0.89	0.85
	1549.9 + 6241	0.66	0.56	0.79	0.59	0.66	0.61	0.63
	1609.6 + 6556	0.90	0.76	1.01	0.70	0.89	0.78	0.89
A-projection		0.78	0.72	1.02	0.77	0.81	0.56	0.77

So far results are inconsistent, with improvement for some sources, but degradation for others. No overall improvement yet.