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Station ID	Station locations	Receiver	Anten na	Antenna ht(m)	App. Lat.(N)	App. Long.(E)	Ellipsoidal height (m)			
ULAG	University of Lagos, Lagos	Trimble	Choke Ring	0.1710	06º 31'2.375"	03º 23'51.444"	44.5752			
RUST	River State Univ. of Sc. and Tech. Port Harcourt	Trimble	Choke Ring	0.1710	04º 48'6.609"	06º 58' 42.677"	45.5892			
UNEC	University of Nigeria Enugu campus	Trimble	Choke Ring	0.1710	06º 25' 29.301"	07º 30' 17.968"	254.4055			
BKFP	Birnin Kebbi Fed. Polytechnic	Trimble	Choke Ring	0.1710	12º 28'6.876"	04º 13' 45.271"	250.0118			
CGGT	Centre for Geodesy & Geodynamics, Toro	Trimble	Choke Ring	0.1710	10º 07' 23.141"	09º 07' 5.922"	916.4462			
FUTY	Fed. Univ. of Technology, Yola	Trimble	Choke Ring	0.1710	09º 20'59.073"	12º 29' 52.072"	247.4052			









Baseline	Baseline	Total RMS error (mm) of IF DD							
Length (km)		No Model	Saastamoinen Model	Modified Hopfield	Neil Model				
BKFP-CGGT	595.1	11.3	8.1	8.2	8.5				
BKFP-FUTY	974.8	10.4	8.9	9.1	9.3				
BKFP-RUST	906.2	13.6	9.8	10.0	10.5				
RUST-CGGT	636.2	15.8	9.7	9.8	10.2				
RUST-FUTY	794.3	16.0	10.0	10.6	10.6				
BKFP-ULAG	667.1	11.9	8.5	8.6	8.7				
ULAG-CGGT	^{749.1}	16.3	8.6	8.5	8.6				
ULAG-FUTY	1060.5	17.0	9.0	9.4	9.2				
ULAG-RUST	440.4	14.9	9.2	9.6	14.0				
BKFP-UNEC	762.6	13.2	8.6	8.8	9.1				
UNEC-CGGT	446.7	12.3	8.7	8.3	10.6				
UNEC-FUTY	940.1	13.5	9.0	9.1	9.1				
UNEC-RUST	188.8	11.9	11.3	11.2	13.0				
UNEC-ULAG	455.2	12.3	8.8	8.4	9.7				
FUTY-CGGT	381.0	10.9	8.7	9.0	8.5				

Analysis of Results									
Percentage improvement in the RMS DD IF residuals after applyir tropospheric delay models									
Baseline	Refined Saastam Model (%)	noinen Modified H Model (%)	Hopfield Neil Mode (%)						
BKFP-CGGT	39.51	37.805	32.9						
BKFP-FUTY	16.85	14.286	11.8						
BKFP-RUST	38.78	36.000	29.5						
RUST-CGGT	62.89	61.224	54.9						
RUST-FUTY	60.00	50.943	50.9						
BKFP-ULAG	40.00	38.372	36.8						
ULAG-CGGT	89.53	91.765	89.5						
ULAG-FUTY	44.44	38.298	41.3						
ULAG-RUST	61.96	55.208	6.4						
BKFP-UNEC	53.49	50.000	45.1						
UNEC-CGGT	41.38	48.193	16.0						
UNEC-FUTY	50.00	48.352	48.4						
UNEC-RUST	5.31	6.250	8.5						
UNEC-ULAG	39.77	46.429	26.8						
FUTY-CGGT	25.29	21.111	28.2						
Average	44.61	42.50	38.01						













NASRDA Analysis of Results												
Mean Zenith Tropospheric Delay (ZTD) optimated at each station												
Station	Refined Saastamoinen Model			Modified Hopfield Model			Neil Model					
~	Mean	RMS	Max	Min	Mean	RMS	Max	Min	Mean	RMS	Max	Min
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
BKFP	2.323	0.0041	2.337	2.303	2.341	0.0063	2.352	2.332	2.326	0.0072	2.333	2.319
CGGT	2.172	0.0033	2.181	2.162	2.187	0.0076	2.195	2.169	2.182	0.0078	2.192	2.170
FUTY	2.363	0.0041	2.376	2.352	2.364	0.0064	2.371	2.358	2.369	0.0056	2.375	2.362
RUST	2.485	0.0055	2.503	2.471	2.535	0.0054	2.562	2.521	2.566	0.0076	2.592	2.529
ULAG	2.435	0.0057	2.573	2.405	2.479	0.0058	2.511	2.422	2.539	0.0067	2.570	2.474
UNEC	2.382	0.0047	2.413	2.332	2.407	0.0053	2.429	2.385	2.405	0.0078	2.440	2.380
Average	2.36	0.0045	2.391	2.336	2.386	0.0061	2.403	2.365	2.398	0.0071	2.417	2.372
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