

# SOUTHERN REFERENCE STAR PROGRAM: PROGRESS REPORT

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The observational programs for the Southern Reference Star Program are rapidly drawing to a close. Observations have been completed, except for a few at San Juan and a small percentage of zone  $-52^\circ$  to  $-64^\circ$  at the Cape. The Cape zone  $-64^\circ$  to  $-90^\circ$  has been cancelled. The current state of the observations is shown in Table I.

Final results have now been received from Abbadia, Bordeaux, Tokyo, USNO 6-in. and Cape (zone  $-40^\circ$  to  $-52^\circ$ ). These results are in machine readable form and preliminary investigations have begun. Results from several other observatories are expected in a short time.

TABLE I  
Status of the SRS programme – 1 June 1973

Observatory	Zone	Commitment	Date started	Completed		Final results received or expected
				Obs'ns	Red'ns	
Abbadia	+ $5^\circ$ to $-15^\circ$	1560 × 4	62.3	100%	100%	1968.8
Bordeaux	+ 5 to $-15$	1560 × 4	62.5	100	100	1970.5
Bucharest	+ 5 to $-10$	1176 × 4	62.6	100	97	1975.0
Nicolaiev	0 to $-20$	5984 × 2	64.3	100	98	1974.0
San Fernando	$-10$ to $-30$	3709 × 4	63.3	100	100	1973.5
Tokyo	$-10$ to $-30$	3560 × 4	63.3	100	100	1972.7
USNO 6-in.	+ 5 to $-30$	8706 × 2 1233 × 4	66.5	100	100	1973.3
Bergedorf (Bickley)	+ 5 to $-90$	20495 × 4	67.9	100	95	1974.5
Cape	$-30$ to $-40$	10082 × 4	61.3	100	97	1974.3
	$-40$ to $-52$			100	100	1966.0
	$-52$ to $-64$			80	75	1974.5
	$-64$ to $-90$			–	–	–
San Juan	$-40$ to $-90$	7190 × 2	69.5	99.4	100	1974.3
Santiago –	$-25$ to $-47$	5992 × 4	63.1	100	60	1974.0
Pulkovo	$-47$ to $-90$	5504 × 4		100	75	1975.0
USNO 7-in. (El Leoncito)	+ 5 to $-20$	7683 × 2	68.7	100	71	1975.0
	$-20$ to $-75$	12121 × 4				
	$-75$ to $-75SP$	1382 × 4				