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14. APPENDICES

14.1. Appendix A – Publications from Potts Hill

The following table provides a chronological listing of scientific publications that were based on research carried out at Potts Hill. A selection of theoretical papers has been included in this listing only where there was a particularly close association between the theoretical work and actual observations made at Potts Hill. Also included are some summary papers reporting on the progress of Australian radio astronomy that contained major reference to the research being conducted at Potts Hill. See Table 2: Summary of Potts Hill Instruments in section 10.4 for details of the instruments used in the observations.

Year of Pub.	Reference	Instrument used for Obs.	Source Investigated	Comments
1949	(Christiansen et al., 1949a)	A, B	Partial Solar Eclipse, Nov 1, 1948.	Summary Paper of eclipse observations.
	(Christiansen et al., 1949b)	A, B	Partial Solar Eclipse, Nov 1, 1948.	Detailed Paper of eclipse observations.
	(Piddington and Hindman, 1949)	D	Partial Solar Eclipse, Nov 1, 1948 + Solar observations.	Detailed Paper of eclipse observations.
1950	(Bracewell, 1950)	E	Solar	Short description of Payne-Scott and Little's Swept Lobe interferometer.
	(Minnett and Labrum, 1950)	C	Partial Solar Eclipse, Nov 1, 1948 + Solar Observations.	Detailed Paper of eclipse observations, included burst observations.
	(Smerd, 1950b)	--	Theory - Solar	Theory of quiet Sun emission.
	(Smerd, 1950a)	--	Theory - Solar	Theory of polarisation and magnetic fields.
1951	(Christiansen and Hindman, 1951)	A,C,D	Solar	Multi-year analysis of solar emission.
	(Christiansen et al., 1951)	A,C,D,E,I	Solar	Multi-frequency analysis of solar outburst of 17, 21-22 February 1950
	(Little and Payne-Scott, 1951)	E	Solar	Description of Swept Lobe Interferometer.
	(Mills and Thomas, 1951)	E	Cygnus-A	Position estimate and fluctuations determined to be ionosphere F-region.
	(Pawsey, 1951b)	A	H-line	Announcement of H-line confirmation.
	(Payne-Scott and Little, 1951)	E	Solar	Noise Storms analysis.
	(Piddington and Minnett, 1951a)	A,D	Sagittarius-A, Taurus-A, Centaurus-A, M31, NGC 7293, Moon	Discovery of Sagittarius-A. M31 and NGC 7293 below detection threshold.
	(Piddington and Minnett, 1951b)	--	Solar	Theory of localised regions of high temperature associated with slowly varying component.
	(Piddington, 1951)	--	Theory – Galactic emission	Theory of origin of Galactic radiation drawing on Potts Hill and other data.
1952	(Christiansen and Hindman, 1952a)	A	H-line	Summary report on H-line survey.
	(Christiansen and Hindman, 1952b)	A	H-line	Detailed report on preliminary H-line survey.
	(Payne-Scott and Little, 1952)	E	Solar	Outbursts analysis including Feb 1950 outbursts.
	(Piddington and Minnett, 1952)	A	Cygnus-A & Cygnus-X	Discovery of Cygnus-X and investigation of Cygnus-A.
	(Wild, 1952)	--	Theory – H-line emission	Comprehensive theoretical review of H-line emission.
1953	(Bolton, 1953)	--	Solar / Cosmic	Summary of the 1952 URSI meeting held in Sydney, including references to Potts Hill research.
	(Christiansen, 1953)	F	Solar	Summary description of E-W solar grating array.
	(Christiansen and Warburton, 1953a)	F	Solar	Detailed paper (Part I) describing the E-W solar grating array.
	(Christiansen and Warburton, 1953b)	F	Solar	Detailed paper (Part II) on one-dimensional images of the Sun.
	(Davies, 1953)	A,C,D,I	Solar	Analysis of a burst associated with an ascending solar prominence.
	(Kerr and Hindman, 1953)	G	H-line Magellanic Clouds	Preliminary report on H-line survey of the Magellanic Clouds
	(Mills and Little, 1953)	H	Cosmic	Description of Mills Cross Prototype including preliminary observations.
	(Pawsey, 1953)	--	Solar / Cosmic	Overview paper of progress in Australian Radio Astronomy including Potts Hill research.
	(Piddington and Davies, 1953a)	A,B,C,D	Solar	Summary Paper of multi-year analysis of emission from the Sun.
(Piddington and Davies, 1953b)	A,B,C,D	Solar	Detailed Paper of multi-year analysis of emission from the Sun.	
1954	(Davies, 1954)	A,C,D,I	Solar	Analysis of 18 months (1950-51) of burst observations at multiple frequencies.
	(Kerr et al., 1954)	G	H-line Magellanic Clouds	Detailed report on H-line observations of the Magellanic Clouds.
1955	(Christiansen and Warburton, 1955a)	F	Solar	Detailed paper (Part III) on two-dimensional images of the Sun.
	(Christiansen and Warburton, 1955b)	F	Solar	Summary paper on two-dimensional images with updates.
	(Kerr and De Vaucouleurs, 1955)	G	H-line Magellanic Clouds	Measurement of rotation of the Magellanic Clouds.
1955	(Pawsey and Bracewell, 1955)	--	Solar / Cosmic	Book on Radio Astronomy including reference to

				Potts Hill research.
	(Swarup and Parthasarathy, 1955a)	F	Solar	Summary paper of limb brightening detected at 60 cm using modified E-W grating array.
	(Swarup and Parthasarathy, 1955b)	F	Solar	Detailed paper (Part I) on one dimensional images of the Sun at 60 cm.
1956	(Kerr et al., 1956)	G	H-line Galactic	Preliminary finding of southern galactic H-line survey.
	(Kerr and De Vaucouleurs, 1956)	G	H-line Magellanic Clouds	Determination of masses of the Magellanic Clouds from H-line observations.
	(Pawsey, 1956)	--	Solar / Cosmic	Overview paper of progress in Australian Radio Astronomy including Potts Hill research.
	(Piddington, 1956)	--	Theory – Solar	Theory of heating of solar atmosphere by hydro-magnetic waves.
	(Piddington and Trent, 1956b)	G	Southern Galactic Survey	Survey at 600 MHz 90°S to 50°N.
	(Piddington and Trent, 1956a)	G	49 Discrete Sources	18 new sources, 4 tentative optical identifications from 600 MHz survey.
1957	(Carpenter, 1957)	G	H-line Galactic	Summary paper on progress of southern galactic H-line survey.
	(Christiansen et al., 1957)	F	Solar	Detailed paper (Part IV) on slowly varying component of solar radiation.
	(Kerr, 1957)	G	H-line Galactic	Discussion of observed warping of galactic disk in the direction of the Magellanic Clouds.
	(Kerr et al., 1957)	G	H-line Galactic	Summary of results of the southern galactic H-line survey.
	(Kerr and Hindman, 1957)	G	H-line Galactic	Summary of mass distribution of neutral hydrogen in the Galaxy.
	(Pawsey, 1957)	F	Solar	Summary of observations of the quiet Sun at different frequencies.
1958	(Christiansen and Mathewson, 1958)	F	Solar	Summary description of Potts Hill solar grating array and the new Fleurs array.
	(Gardner and Shain, 1958)	J	Jupiter	Investigation of Jupiter radio bursts using Potts Hill as part of a spaced-receiver experiment.
	(Kerr, 1958b)	G	H-line Galactic	Summary paper on the southern galactic H-line survey results.
	(Oort et al., 1958)	G	H-line Galactic	Detailed paper on combination of Potts Hill and Leiden H-line surveys and findings on Galactic structure.
	(Swarup and Parthasarathy, 1958)	F	Solar	Detailed paper (Part II) on one dimensional images of the Sun at 60 cm examining localised areas of brightness.
	(Wade, 1958)	--	Theory – Emission Nebulae	Theory paper on radio emission from Hydrogen nebulae directly relevant to Potts Hill research.
1959	(Christiansen, 1959)	F	Solar	Summary description of types of directive radio aerials including the Potts Hill solar grating array.
	(Hindman and Wade, 1959)	G	Eta Carine Nebula, Centaurus-A	Observations of Eta Carine Nebula, Centaurus-A at 1,400 MHz
	(Kerr et al., 1959)	G	H-line Galactic	Final detailed report on observations from the southern galactic H-line survey.
	(Pawsey, 1959b)	G	H-line Galactic	Summary discussion of radio evidence for large-scale structure of the Galaxy and other external galaxies.
	(Wade, 1959a)	G	Eta Carine Nebula	Discussion of a physical model of the Eta Carine Nebula consistent with radio observations at Potts Hill and other radio and optical observations.
1960	(Blaauw et al., 1960)	G	H-line Galactic	Lead paper in a series of 5 on the new I.A.U. system of galactic coordinates.
	(Gum et al., 1960)	G	H-line Galactic	Paper II in series on the new I.A.U. system of galactic coordinates describing re-analysis of Potts Hill and Leiden H-line survey data to determine the galactic plane.
	(Gum and Pawsey, 1960)	G	Galactic	Paper II in series on the new I.A.U. system of galactic coordinates discussing general radio continuum surveys including Potts Hill 600 MHz data.
1961	(Krishnan and Labrum, 1961)	A	Partial solar eclipse, 8 April 1959	Detailed paper of eclipse observations in conjunction with 'Chris-Cross' at Fleurs.
1962	(Kerr, 1962)	G	H-line Galactic	Discussion of a re-interpretation of the galactic H-line survey data using a revised velocity model.

14.2. Appendix B – Publications from Murraybank

The following table provides a chronological listing of scientific publications that were based on research carried out at Murraybank. All observations were performed using the Murraybank 21-ft aerial and the 48-channel H-line receiver.

Year of Pub.	Reference	Source Investigated	Comments
1958	(Murray and McGee, 1958)	Pyxis-Hydra Hydrogen Cloud	First trial survey observations using the multi-channel receiver. Large HI cloud identified and associated with HII regions.
1959	(Murray and McGee, 1959)	Taurus-Orion Region	Trial survey suggesting a single HI cloud covers this region.
1961	(McGee and Murray, 1961b)	Galaxy	First paper in a series of three papers on results from the southern sky survey. Deals with the general distribution of neutral hydrogen.
	(McGee and Murray, 1961a)	Galaxy	Summary paper to AJ on findings of local HI streaming.
	(McGee et al., 1961)	Galaxy	Summary paper to Nature on findings of local HI streaming.
1963	(McGee and Murray, 1963)	N/A	A description of the multi-channel receiver.
	(McGee et al., 1963)	Galaxy	Second paper in survey series dealing with low velocity gas.
	(Hindman et al., 1963b)	Magellanic Clouds	First paper in a series of two detailing the observations and digital recording techniques for a survey of the Magellanic Clouds.
	(Hindman et al., 1963a)	Magellanic Clouds	Second paper in series dealing with the interpretation of the results. Evidence for a HI bridge between the clouds and evidence that the SMC is split in two.
	(Howard et al., 1963)	Galaxy	Joint paper on the correlation between optical stellar radial velocities and radio HI lines drawing on Murraybank survey data.
	(McGee, 1964)	Galaxy	IAUS paper on large HI clouds in Galaxy.
1964	(McGee and Milton, 1964)	Galaxy	Third and final paper in survey series dealing with high velocity gas.

14.3. Appendix C – Radio-Frequency Spectral-Line Programs

The following table provides a summary of the state of radio-frequency spectral line receivers and aerials as at the beginning of 1954 and is based on material from a Radiophysics archive file on receiver development.

Survey of Spectral Line Receivers at February 1954												
Group	First Local Oscillator	Second Local Oscillator	Line-Detection and Stability System	Theoretical Sensitivity			Presentation	Aerial			Channel Bandwidth	Investigation
				Relative Signal Level	Relative Noise Level	Relative Sensitivity		Mounting	Diameter	Beamwidth		
Sydney - Potts Hill	Fixed	Fixed	Balance output of narrow channel against output from whole I.F. amplification after detection.	1	1	1 Limited Obs Time	4 Channels: 20 proposed	Transit	36-ft	1°	200 KHz 40 KHz	Magellanic Clouds: Galaxy
Harvard - Agassiz Station	Fixed	Swept	Balance narrow channel against whole I.F. output	1	1	1	Single channel: Sweeping yields profile	Equatorial	25-ft	1.75°	200 KHz 50 KHz 15 KHz 5 KHz	Galaxy: Centre & Anti-Centre
Naval Research Laboratory - Washington	Fixed	Swept	Balance narrow channel against whole I.F. output	1	1	1	Single channel	Alt-Azimuth	50-ft	0.75°	200 KHz 50 KHz 15 KHz 5 KHz	Galaxy
Jodrell Bank	Swept	Switched Δf	Push-Pull comparison of two channels separated by Δf . Produces "modulated" signal.	1	$\sqrt{2}$	0.7	Single channel	Alt-Azimuth	30-ft 100-ft	1.25° 0.375°	-	Experimental
Leiden - Kootwijk	Switch between Two Crystals	Swept	Switch single channel to produce modulated signal (assuming tuned A.C. amplification)	$2/\pi$	$\sqrt{2}$	0.45	Single channel: 2 planned	Alt-Azimuth	25-ft Wurzburg 80-ft	2.5° 0.5°	30 KHz	Galaxy
O.T.M. - Carnegie Institute Washington	Switched	Fixed	Frequency switched so that modulated signal appears in all channels	$2/\pi$	$\sqrt{2}$	0.45	Multi-channel	Equatorial	25-ft Wurzburg	2.5°	15 KHz	Experimental
Sydney - Dover Heights	Fixed	Swept & Switched	(a) Switch single channel (b) Push-Pull switching of two channels. Untuned A.C. Amplifier	$\pi/4$	$\pi/2$	0.5 Limited Obs Time	Single channel	Fixed Moveable Feed	80-ft	0.5°	200 KHz 30 KHz	Search for D-Line 327 MHz
Ministry of Supply - R.R.E Malvern	Swept	Switched?	-	-	-	-	Several channels	-	20-ft	2°	-	Experimental: Hope to detect M31