

C. V.

James William Phillips

Born London 1914. British.

Grammar School (Tottenham, London)

University of London '31-'35.

B.Sc. Mathematics 1934

(Does one mention 1st. Class Honors?)

Teacher's Diploma 1935

Mathematics Teacher '35-'41. Small country school

(Takenham, Norfolk)

H. M. Forces. '41-'42 Civilian

'42-'48 Army.

~~Trained~~ Trained (6 weeks, 1941) as a 'Radio Officer'

for work with 'radiolocation' in the field

(as it was called then - later to become 'radar')

'41/'42 Work in the field

'43/'44 Instructor at Military College of Science

'44/'45 Army Operations Research Group

- work in the field

'45-'48 Ditto, mainly Radio Astronomy.

Mathematics Teacher, Charterhouse 1948-1950

Grammar School, Cheltenham 1950-51.

Fuel Research, National Coal Board 51-62

Ditto C.S.I.R.O Australia 62-63.

Publications re Radio Astronomy. All Hey, Parsons, Phillips

1. Cosmic Radiation at Sun. Nature 157, 296, 46

2. Observation of Discrete Sources " 158, 234, 46

3. Both of above.

4. Solar Radiation Proc. Roy. Soc. A 192, (25) #48

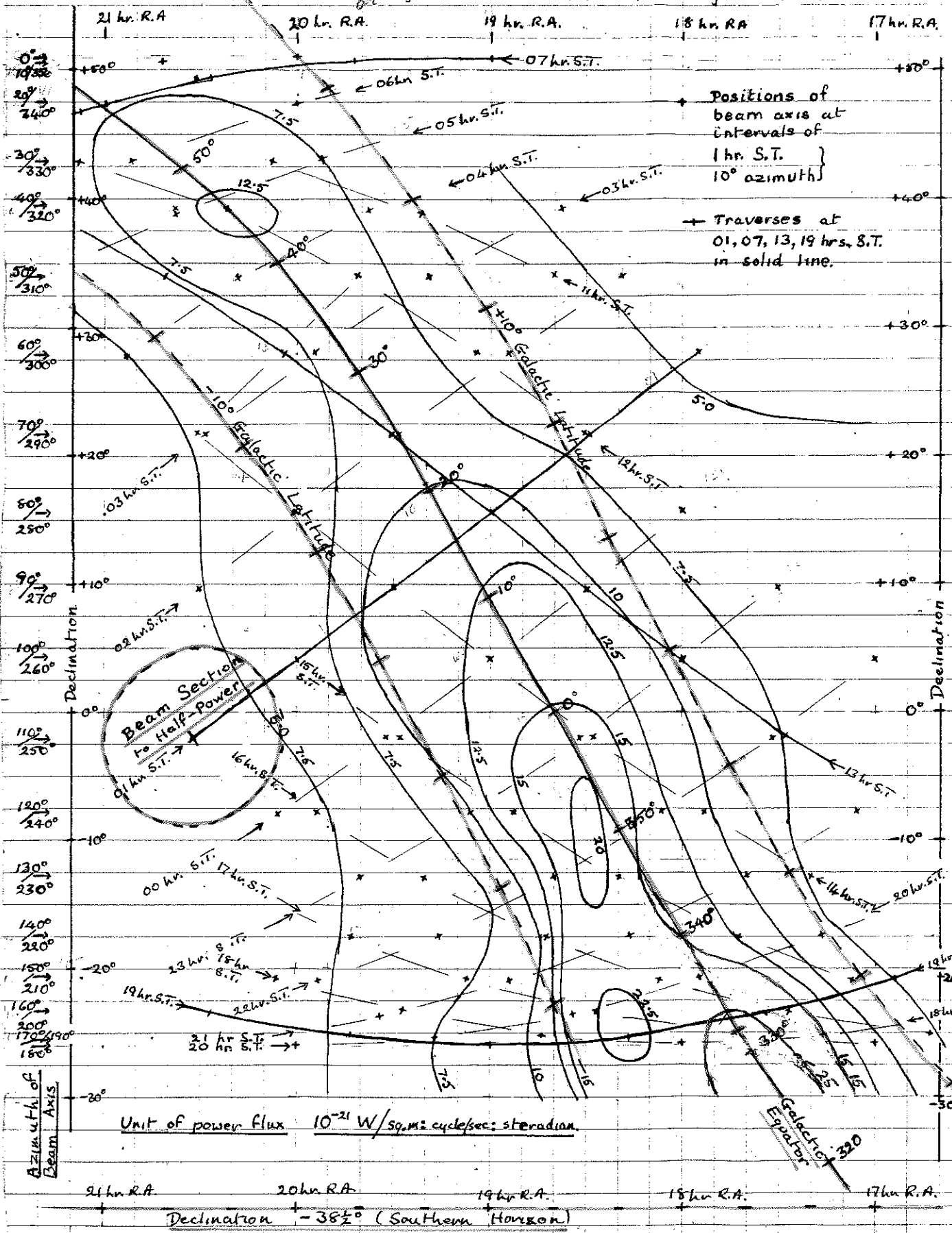
Reports of 1 & 3 enclosed. Nature 160, 371, 47 and Mon. Not. R.A.S. 108, 352, 48.

Also photo, date unknown, probably 1955-ish

from Phillips - 9/85 - drawn in 1985 or ~1947? (see p. 4 of his letter)

# Cosmic Radiation at 64 Mc/s [Portion of final map]

(from Hey, Parsons and Phillips, 1948, Proc. Roy. Soc. A, 192, 425)



Notes originally from J.W. Ballou 10/75 - discovery of Sgs A

30-5-46  
COSMIC NOISE  
FLUCTUATIONS

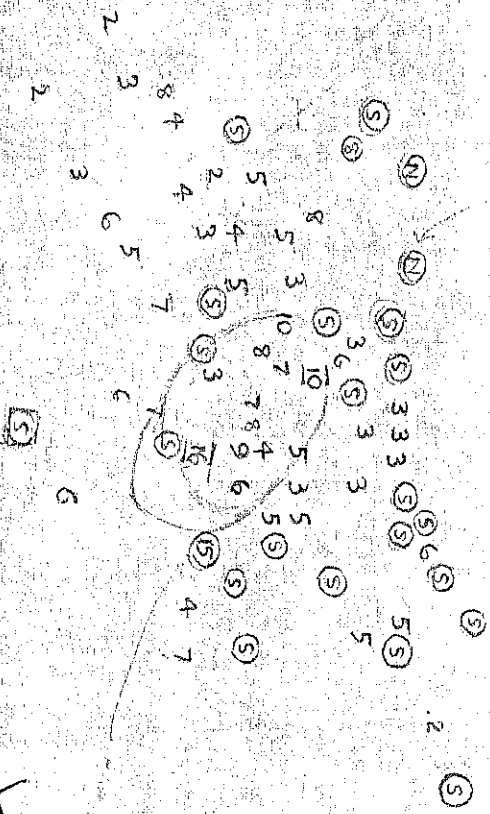


16-H-GPT (Lysine)  
16-H-GPT (Lysine)  
16-H-GPT (Lysine)  
16-H-GPT (Lysine)

(S) = steady

N = ?

~ HSBM (13%)



for each of the 46 days,  $\alpha = 20.40^\circ$ ,  $\delta = +44^\circ$

GALACTIC EQUATOR

COSMIC NOISE FLUCTUATION

23/10/46

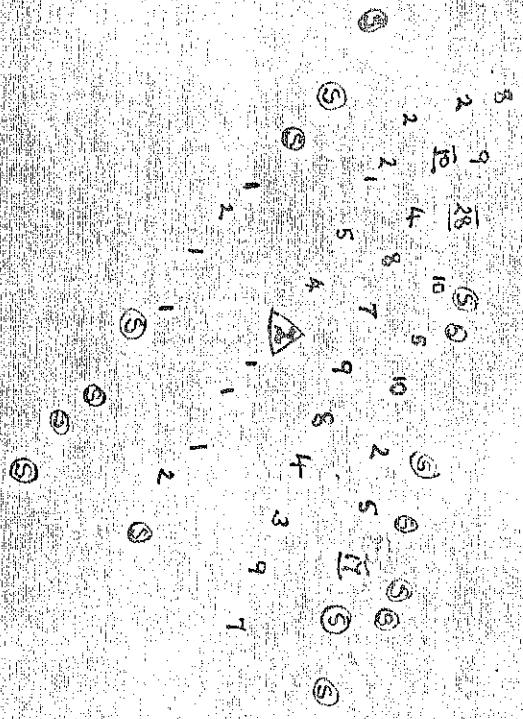
07<sup>h</sup>08<sup>m</sup> to 09<sup>h</sup>40<sup>m</sup> G.M.T.

11 Sid. I.

Gyr. rate

+60° 22<sup>m</sup>

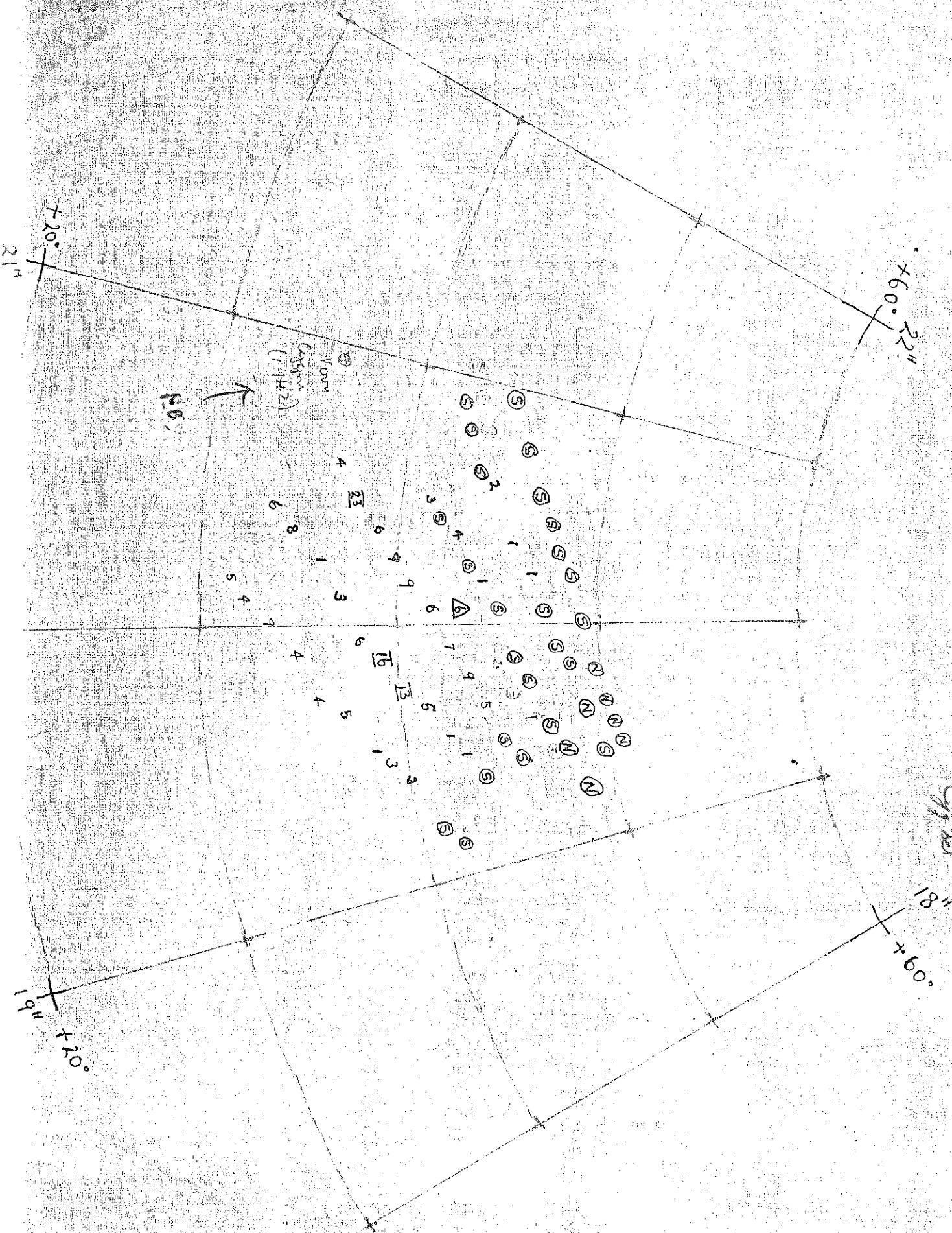
18<sup>m</sup> +60°



2/4 +20°

1/4 +20°

COSMIC NOISE FLUCTUATION. 23/10/46 01<sup>h</sup> 25<sup>m</sup> - 04<sup>h</sup> 20<sup>m</sup> G.M.T. 5<sup>h</sup> S.I.D.T.



LIST OF PUBLICATIONS: J.W. PHILLIPS (1944 - )

*National Coal Board*  
↓  
*(England)*  
Pre-N.C.B.

③ "Cosmic Radiations at 5 metre Wavelength"

Hey, Parsons and Phillips - Nature 157, 296, 46; 158, 234, 46. <sup>19</sup>

"Some Characteristics of Solar Radio Emissions"

Hey, Parsons and Phillips - Nature 160, 371, 47.

also Mon.Not.Roy.Ast.Soc. 103, 354, 43.

"Investigation of galactic radiation in the radio spectrum"

Hey, Parsons and Phillips - Proc.Roy.Soc.A. 192, 425, 48.

N.C.B. (1951-62)

"Fundamental Aspects of Automatic Particle Counting"

Phillips - Br.J.Appl.Phys.Suppl. 3, 133, 54.

"Removal of Water from Fine Coal"

Phillips and Thomas - Col.Eng. 32, 15, 55.

"Apparent Strength of Extensively Cracked Materials"

Millard, Newman, Phillips - Proc.Phys.Soc.B. 68, 723, 55.

"Fissuring in Binderless Coal Briquettes during Carbonization"

Proc.Conf.Science in Use of Coal 1958.

"Compaction of Powders"

Gregory, Jones, Phillips - Nature 184, 120, 59.

Papers to International Conferences on Coal Science:

1955 "Plastic Deformation of Coal at Room Temperatures"  
Phillips - (also Brennstoff-Chemie 37, 232, 50).

1959 "Influence of Macerals on Volume Changes in Briquettes  
during Carbonization" Dainton, Kays, and Phillips.

valid Date 1962-63 only

1961 - letter of application from J.W. Phillips to CSIRO (Coal Research Div)

1963 - forwarding address

c/o Dr. A.E. Bell

Little Evesham House

Wellington Rd

- 3 -

Cheltenham, Gloucestershire

England

I have not always been in coal research. I trained as a mathematician, and before the war I taught mathematics. During the war I trained and worked first as a radar engineer and later as a research scientist. This research was continued after the war, and during this time I did pioneer work in radio astronomy. In the course of this I was the first to discover a "radio-star."