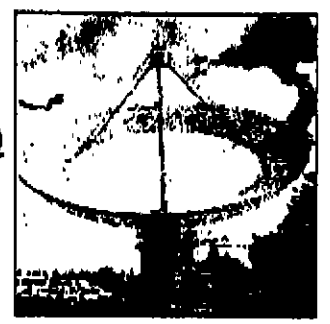


shala, main you in the ... pl? ... AT 39.3/050



Facsimile Message
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To: John Whitlock Dave Abbott Dave McConnell		From: Petr Hall	
		cc: RDE JWB RPN MWS	
Destn. FAX #:	Date: 24.4.95	Page 1 of 2 page(s)	
Subject: Phase Correction			

Hi,
I thought you might be interested in this plot which Michael Bremer (ICAM) sent me. He's done the first part of the expt. we'd designed on the PolBT. Basically, it uses the first two 230 GHz SIS Rx as sounding receivers. A phase correction for 3mm is derived on the basis of the 230 GHz Δ total pow between the receivers.

Note the bad phase at 86 GHz is made very respectable after correction.

I am:

- 1) very happy that the expt worked (lots of fanging with load stabilities etc to get result)
- 2) very happy that there is some evidence one can correct an almost unusable 3mm phase with a result derived on the basis of a stable 230 GHz sounding measurement.
- 3) Not so happy that the French can use their own Rx to do this! Still, for full efficiency astronomy they'd still need a well attractive.
- 4) Encouraged about our ATCA 230 GHz / 3mm channel

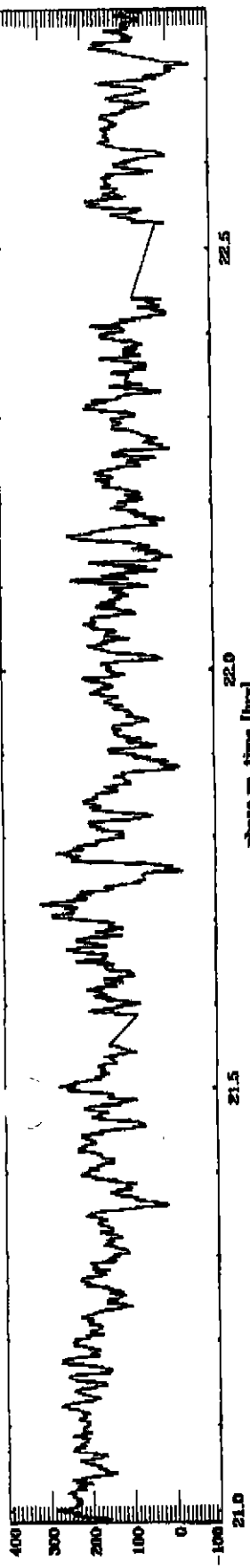
Petr

24 APR 1935

ATNF / File <i>A7 39.3/50</i>		
Local Distribution		
	Action	cc
R D E K E R S <i>A</i>		<i>X-ja.</i>
J W B R O O K S <i>M</i>		
R F H A Y N E S <i>V</i>		
P J H O W S O N		
R P N O R R I S <i>RU</i>		<i>X-ja.</i>
A K T Z I O U M I S		
M W S i n c l a i r <i>MS</i>		

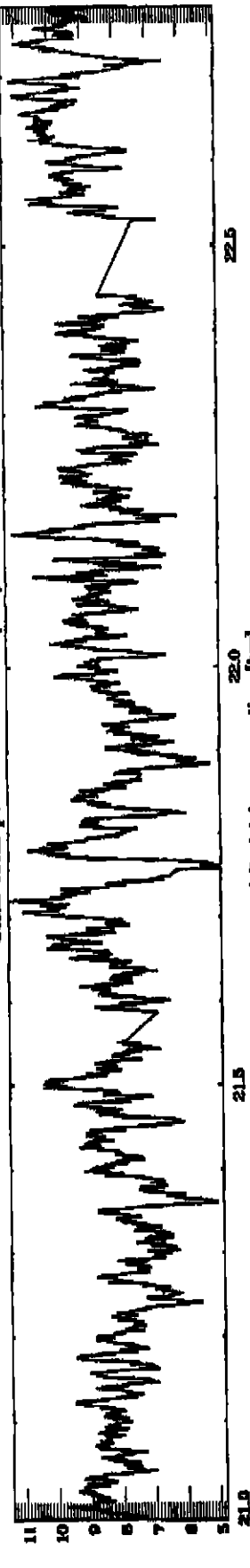
Phase

Phase at 86 GHz



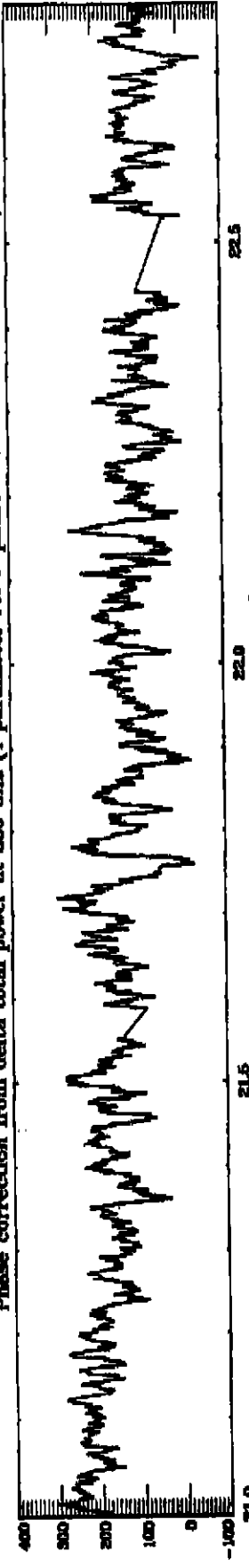
phase vs. time [hrs]

delta total power at 230 GHz (raw)



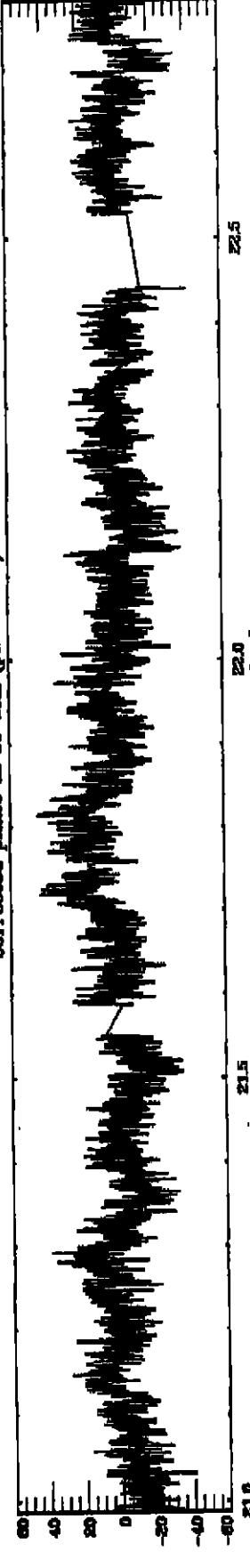
delta total power vs. time [hrs]

Phase correction from delta total power at 230 GHz (4 parameter FIT : phase = a*TP1+b*TP2+c*time+d)



derived phase correction vs. time [hrs]

Corrected phase at 86 GHz (phase-FIT)



residuals phase vs. time [hrs]

