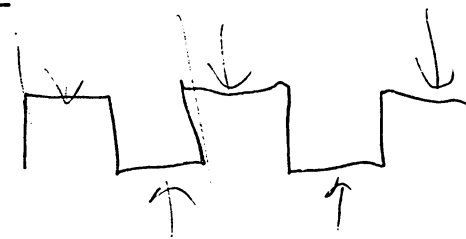


General Single Dish Data Format

Parameter	Pointer Name	Location
***** Basic Information *****		
Scan Number	KSNO	1
Type of Data-Observing Mode	KSTC	2
Length of Header (8-byte words)	KHLN	3
Length of Data (8-byte words)	KDLN	4
Source Name (16 characters)	KSNA	5-6
Observer Name (16 characters)	KONA	7-8
Observer Initials/Operator Initials	KOBS	9
Receiver Descriptor (8 characters)	KRCV	10
Backend Descriptor (8 characters)	KBKE	11
Telescope Descriptor (8 characters)	KTEL	12
Project Identification (8 characters)	KPID	13
***** Telescope Parameters *****		
Horizontal Pointing Correction <i>azimuth/RA</i>	KHPC	16
Vertical Pointing Correction <i>ELEVATION/DEC</i>	KVPC	17
Collimation Error	KCE	18
Bend Error	KBE	19
Antenna Aperture Efficiency	KAAE	20
Antenna Beam Efficiency	KABE	21
***** Observing Parameters *****		
Sample Rate (sec of time) <i>Length of Cycle</i>	KSRT	24
Scan Integration Time <i>Ref Obs</i> Ref Obs <i>Number</i>	KINT	25
Universal Time Date (yyyy.mmdd) <i>cycles</i>	KDAT	26
Universal Time (decimal hours)	KUT	27
LST (decimal hours)	KLST	28
Calibration Temperature <i>in an integration</i>	KCAL	29
Receiver Temperature	KRT	30
Source System Temperature	KSTP	31
Rest Frequency <i>Front End Center Frequency</i>	KRF	32
***** Positions *****		
Coordinate System Code	KCSC	36
Epoch	KEPH	37
Description of Origin (3)	KDSO	38-40
Source Lambda	KSL	41
Source Beta	KSB	42
Reference Lambda	KRL	43
Reference Beta	KRB	44
Epoch Right Ascension	KERA	45
Epoch Declination	KEDC	46
Galactic Longitude	KGL	47
Galactic Latitude	KGB	48
Azimuth	KAZ	49
Elevation	KEL	50

512

1024 bytes/rec



16 on diff

pts/rec

freq

resolution

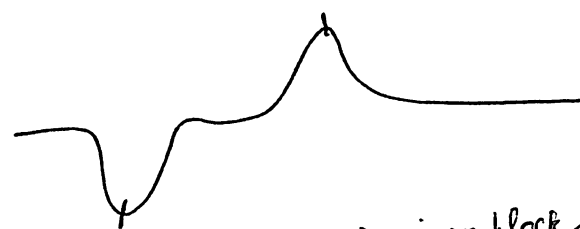
system temp

noise tube

Phase Block (#, 16)

Number of Backend Channels
Number of Phases per Cycle

128
224 R*8
352



Receiver block (16)

- 1) number pts
- 2) freq
- 3) resolution
- 4) calibration temp
- 5) source sys temp
- 6) ref sys temp

Frontend

Number of Receivers	KNR	53
Signal Polarization	KSP	54
Reference Polarization	KRP	55

Environment

Ambient Temperature	KAT	58
Pressure	KPRS	59
Relative Humidity	KRH	60
Index of Refraction	KIR	61
Total Opacity	KTO	62
H2O Opacity	KWO	63
H2O Temperature	KWT	64
O2 Temperature	KOT	65

Data Parameters

Number of Phases	KNPH	68
Number of X points per Phase	KNXP	69
Number of Y points per Phase	KNYP	70
Reference X Point	KRXP	71
Reference Y Point	KRYP	72
X value at Reference Point	KXV	73
Y value at Reference Point	KYV	74
Delta X	KDX	75
Delta Y	KDY	76
X-axis code/Y-axis code	KAC	77
Data Precision Code	KDPC	78

Observing Dependent Parameters (Spectral Line)

Sky Frequency	KCF	80-82
Velocity wrt LSR	KVL	83
Velocity wrt SUN	KRH	84
Current Spectral Resolution	KCSR	85
Velocity Definition & Reference	KVRD	86
Reference System Temperature	KRTP	87
Off Scan Number	KOSN	88

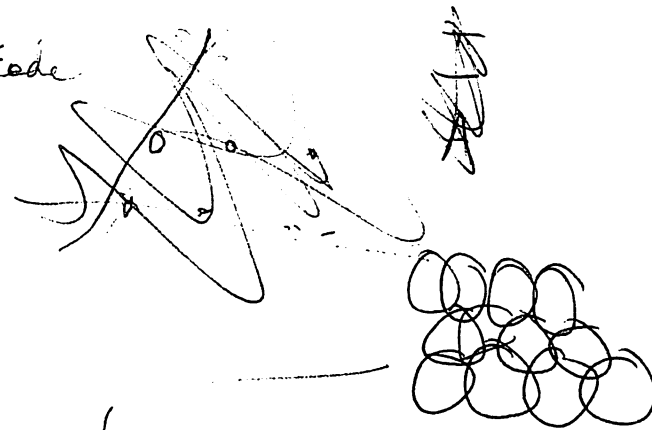
Observing Dependent Parameters (Continuum)

Source Temperature	KST	80
RMS of Mean	KRMS	81
Baseline Value	KBAS	82
Switched Power Calibration Factor	KSCF	83
Total Power Calibration Factor	KTCF	84
HP	KHP	85
Map Scanning Angle	KMSA	86

Telescope Dependent Parameters

L1,L1F1,L1F2	(NRAO-GB)	KL1	90-92
L2,L2F1,L2F2	(NRAO-GB)	KL2	93-95
LA,LB,LC,LD	(NRAO-GB)	KLA	96-99
Center Frequency Formula	(NRAO-GB)	KCFF	100-102
Apparent Right Ascension	(NRAO-GB)	KARA	103
Apparent Declination	(NRAO-GB)	KADC	104

Polarization Code



P

Bad Channel Values

X points

1199 123

For 85 - 713
34 - 278
178
2
128
104
103
102
101
100
99
98
97
96
95
94
93
92
91
90

LO IF, First IF	(NRAO-TUC)	KLUF	90-91
Synthesizer Frequency	(NRAO-TUC)	KSYN	92
Sideband & LO Factor	(NRAO-TUC)	KSDR	93
Harmonic	(NRAO-TUC)	KHM	94
Source Offsets	(NRAO-TUC)	KSOFF	95-96
Reference Offsets	(NRAO-TUC)	KROF	97-98
Reference Name	(NRAO-TUC)	KRN	99
Telescope Longitude	(IRAM-BURE)	KTLG	90
Telescope Latitude	(IRAM-BURE)	KTLT	91
Telescope Elevation	(IRAM-BURE)	KTE	92

90-104
telescope dep

Open Parameters 95-120

Spectral Values

Data Values [Ph1(ch1),Ph2(ch1),...,] KDP KHLN+1

start at 121 - ?
20 1 RCVR = 128 total
20

1701

PLT5. DAT
6. DAT
PLTS. DOC

Rest observed

Observing Mode
Frequency
resolution — Receiver Temperature
Calibration temperature
Source system temperature
Reference system temperature
Reference point for each receiver
~~x center~~ x value at reference point
Delta x
x axis code cycles
number of (points) per receiver
Number of points per cycle
~~Receiver~~
total Opacity
H2O Opacity
H2O temp
O2 temp

Observing mode - describes the possible phases
Number of points for each phase
Freq Reference pt each rcvr
resolution
Calib temp
Source temp
reference temp
velocity x ref velocity x center
x val delta v delta x
delta x
Y pt
Y ref
Y c