

NATIONAL RADIO ASTRONOMY OBSERVATORY

POST OFFICE BOX 2

GREEN BANK, WEST VIRGINIA 24944

TELEPHONE 304-456-2011

TWX 710-938-1530

25 Meter Millimeter Wave Telescope
Memo #97

20 June 1977

Mr. Thomas Krieger, Superintendent
Mauna Kea Observatory
180 Kinoole Street
Hilo, Hawaii 96720

Dear Mr. Krieger:

We are very hopeful that someday in the not too distant future we will be building a radio telescope on Mauna Kea. In the meantime we are developing conceptual designs for the telescope and astrodome.

Typical temperature readings for twenty-four periods would be helpful in this design. Recordings or readings at 30 minute intervals would be most helpful. Typical days might be for each month or each season. We are interested in the temperature extremes and rate of change on these typical days.

Is such information available for the summit? If so, how could we obtain a copy of it?

Thank you for any assistance you might give us.

Very truly yours,

G. M. Peery
Engineer

GMP:vlt

UNIVERSITY OF HAWAII

Institute for Astronomy
Mauna Kea Observatory

July 13, 1977

Mr. G.M.Perry
Nat'l. Radio Astronomy Observatory
Post Office Box 2
Green Bank, West Virginia 24944

Dear Mr. Perry,

This is in response to your letter of 20 June 1977. The attached are daily temperature readings and indicate over night low, mid-day and late afternoon readings taken at the construction site for the IRTF Project. The dates are for the year 1977. Temperature readings at 30 minute intervals are not taken. If you desire continued readings as per attached, I would be happy to forward them to you on a monthly basis.

Very Truly Yours,

Thomas A. Krieger, Supt.
Mauna Kea Observatory

TAK/pgf

IRTF PROJECTWEATHER SUMMARY °C

<u>Date</u>	<u>Weather</u>	<u>O/Nite Low</u>	<u>Mid-Day</u>	<u>Late Afternoon</u>	<u>Range</u>
4/14		-5	10	6	15
4/15		-4	11	-	15
4/18		-3	0	0	3
4/19		-3	4	0	7
4/20	Snow P.M.	-6	25(?)	0	-
4/21		4	15	6	19
4/22		-6	17	10	23
4/25		-3	15	1	18
4/26		-3	8	3	11
4/27		-8	12	3	20
4/28		-5	10	0	15
4/29	Snow P.M.	-6	-1	-	5
5/2		6	15	10	21
5/3		-5	6	4	11
5/4		-4	6	1	10
5/5		-2	12	2	14
5/6		-5	13	-	18
5/9		-7	10	6	17
5/10		-3	-	-	-
5/11	Snow	-	-	-	-
5/12		-	-	-	-
5/13		-	-	-	-
5/16		-7	10	7	17
5/17		0	15	7	15
5/18		-3	18	8	21
5/19		-3	19	10	22
5/20		-1	10	-	11
5/23		0	10	8	10
5/24		0	8	6	8
5/25		1	6	5	7
5/26		4	7	6	11
5/27		6	10	-	16
5/31		5	5	5	0
6/1		0	5	5	5
6/2		2	5	5	7
6/3		2	8	8	10
6/6		-4	6	5	10
6/7		-2	5	5	7
6/8		0	5	5	5
6/9		3	5	-	8
6/13		7	17	6	24
6/14		-4	23	8	27
6/15		-1	10	7	11
6/16		-1	12	8	15
6/20		-1	7	4	8
6/21		-3	4	-1	7
6/22		-3	9	5	12
6/23		-3	3	1	6
6/24		-3	8	5	11