



United States Department of the Interior

GEOLOGICAL SURVEY

Branch of Global Seismology
Albuquerque Seismological Laboratory
Building 10002, Kirtland AFB-East
Albuquerque, New Mexico 87115

April 14, 1982

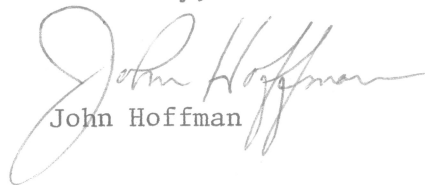
Mr. Bill Shannon
Earth Physics Branch
Division of Seismology and
Geothermal Studies
1 Observatory Crescent
Ottawa, Canada K1A 0Y3

Dear Bill:

Attached is a copy of the station and data logs for Glen Almond that will accompany the data in the network-day tapes. The station log includes the date and various station parameters, plus any time corrections or data outages of more than one hour. In the 'Comments' section I have noted that there is no short-period data recorded at Glen Almond, and also that the time correction will always be zero. The data log contains calibration information, including a complete listing of the transfer functions and also a table for response to earth displacement.

In the table under the heading 'Calibration Data' I have crossed out two columns, 'Amplitude' and 'Frequency'. The 'Amplitude' column lists the peak-to-peak digital counts for the calibration frequency which is listed in the 'Frequency' column. As there was no data for this day in the system the information under these columns is meaningless. I believe that all our problems are resolved, and the Glen Almond data should appear in the network-day tapes beginning April 1, 1982.

Sincerely,


John Hoffman

JH/11p
Attachment

*Note: - GACLP data from Oct 28/81 @ 14:53 to
Mar 31/82 @ 15:06 is not GAC data & has been
erased. Problem occurred when GAC data position in
SECRUF was changed & hard coded location wasn't*

dtlos
 list, print or modify station and data log comments
 function?
 station id?43
 Date?1.2.46
 loss to be printed?a

STATION LOG:Glen Almond, Quebec, Canada TAPE FILE: 1
 DAY: 046 YEAR: 1982 DATE: 15FEB82 NUMBER OF STATIONS ON THIS LOG: 1

STATION LIST:	ID	CODE	INST	TYPE	LATITUDE	LONGITUDE	ELEVATION(m)
	43	GAC	SRO		45.7032N	75.4783W	62.0M

DATA FILES: 1

FILE NO	ID	DESCRIPTION
2	43	LONG PERIOD Z,N,E

TIME CORRECTIONS: 0
 YEAR DAY TIME CORRECTION(sec)

DATA OUTAGES OF MORE THAN ONE HOUR: 1
 FROM: DAY TIME TO: DAY TIME
 046 0000 047 0200

COMMENTS:
 There is no short period data recorded at this station. Time correction is always zero.

DATA LOG:FOR 3 CHANNELS LONG PERIOD Z,N,E TAPE FILE: 2
 RECORDING MODE: CONTINUOUS, MULTIPLEXED FORMAT TYPE: 1
 SAMPLE RATE: 1.0/sec SAMPLE INTERVAL: 1.000 sec
 CHANNEL SEQUENCE: 1=VERTICAL, 2=NORTH, 3=EAST

CHANNEL	YEAR	DAY	TIME	AMPLITUDE (counts/micrometer)	AVE CAL VALUE (counts/micrometer)	FREQUENCY (Hz)
1	1982	46	000	3.3908E-20	1.0000E+03	7.2075E+02
1	1982	47	000	3.3908E-20	1.0000E+03	7.2075E+02
2	1982	46	000	3.3908E-20	1.0000E+03	3.7296E-20
2	1982	47	000	3.3908E-20	1.0000E+03	3.7296E-20
3	1982	46	000	3.3908E-20	1.0000E+03	3.3908E-20
3	1982	47	000	3.3908E-20	1.0000E+03	3.3908E-20

THE COMPLEX TRANSFER FUNCTIONS T ARE CALCULATED BY:
 $T(S) = A0*DS*(S-Z01)*(S-Z02)*...*(S-ZM)/((S-P01)*(S-P02)*...*(S-PM))$
 WHERE: S=J*W, W=ANGULAR FREQUENCY, A0 IS SCALAR, M IS THE NUMBER OF COMPLEX ZEROS, N IS THE NUMBER OF COMPLEX POLES, THE Z'S AND THE P'S ARE THE COMPLEX ZEROS AND POLES OF THE SYSTEM, AND DS IS THE APPROPRIATE DIGITAL SENSITIVITY (counts/micrometer) IN THE TABLE ABOVE

	CHANNEL 1	CHANNEL 2	CHANNEL 3
A0	+ .704E+05		
P01	- .465E+01, + .346E+01		
P02	- .465E+01, - .346E+01		
P03	- .118E+00		
P04	- .407E+02		
P05	- .100E+03		
P06	- .150E+00		
P07	- .264E+03	- .293E+01	

P09 -.282E+00
 P10 -.201E+00,+.241E+00
 P11 -.201E+00,-.241E+00
 P12 -.134E+00,+.100E+00
 P13 -.134E+00,-.100E+00
 P14 -.251E-01
 P15 -.924E-02
 P16 -.379E+00,+.639E+00
 P17 -.379E+00,-.639E+00
 P18 -.794E+00
 Z01 -.124E+00
 Z02 -.476E+02
 Z03 ,+.105E+01
 Z04 ,-.105E+01
 Z05 S**5

RESPONSE TO EARTH DISPLACEMENT

PERIOD (sec)	NOMINAL AMPLITUDE (relative)	PHASE (deg)
1000	+.175E-04	392
500	+.367E-03	351
250	+.531E-02	297
100	+.101E+00	207
80	+.185E+00	178
60	+.373E+00	136
50	+.541E+00	104
40	+.771E+00	62
30	+.988E+00	0
25	+.100E+01	-42
20	+.849E+00	-95
15	+.509E+00	-163
10	+.141E+00	-256
7	+.149E-01	-335
5	+.439E-02	-214
4	+.393E-02	-245
3	+.204E-02	-280
2	+.578E-03	-328