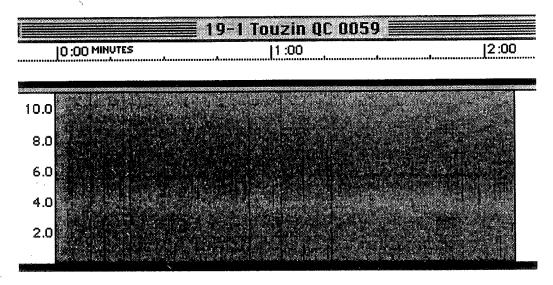
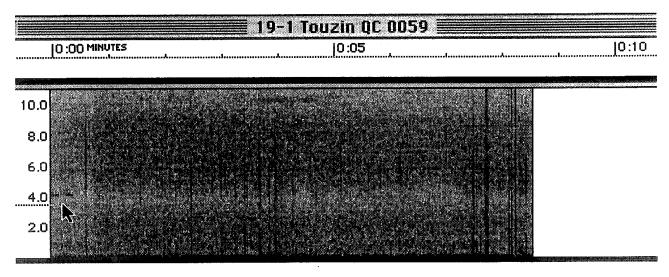
## **INTMINS** Data

The following spectrograms are taken from data tapes submitted by INSPIRE observers. The first view shown will be that of the entire two-minute interval analyzed. At the top of the image is the sound filename which consists of the operation number, the name of the observer, the state or country where the observations were made and the start time of the operation. Subsequent views will be of portions of the first. Use the time scale at the top to determine the length of the view. Unless otherwise noted, the start time of the cropped view is the same as the start time of the operation.

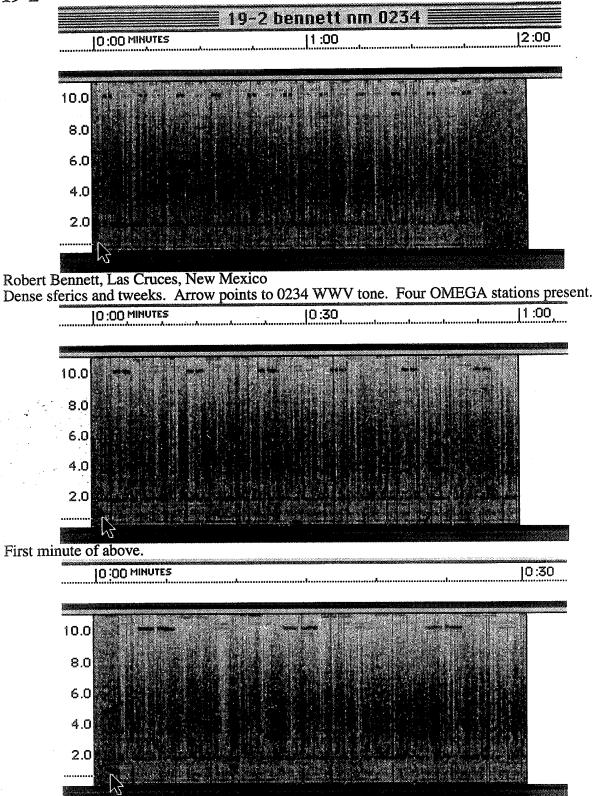
## 19-1



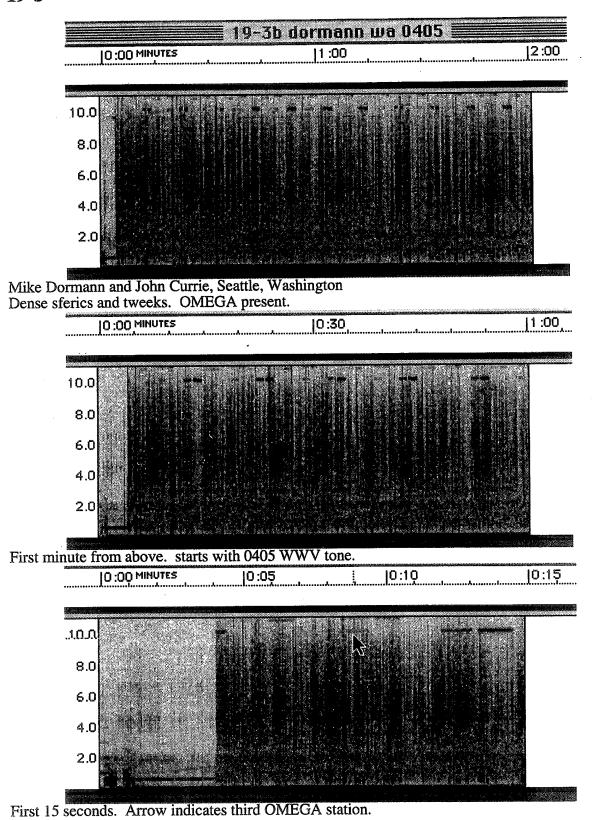
Jean-Claude Touzin, St. Vital, Quebec, Canada. Fairly quiet conditions with some strong sferics and OMEGA present.

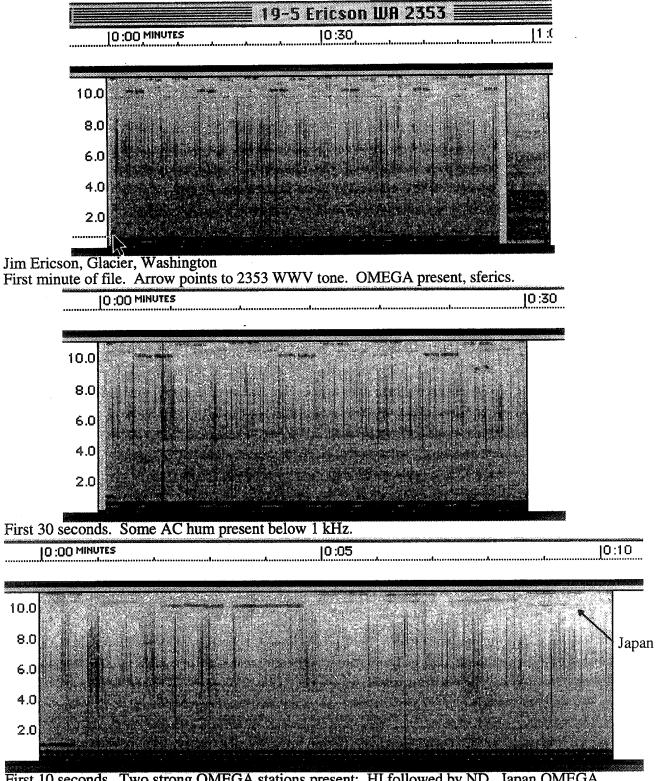


A ten second interval of the file. The arrow points to the double beep used as a time mark at 0059. Note the OMEGA dash at 0:04 seconds.

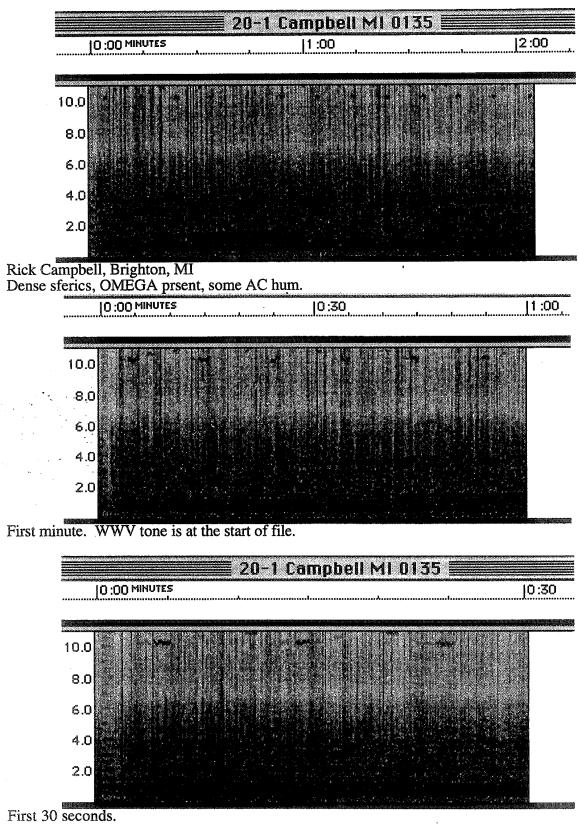


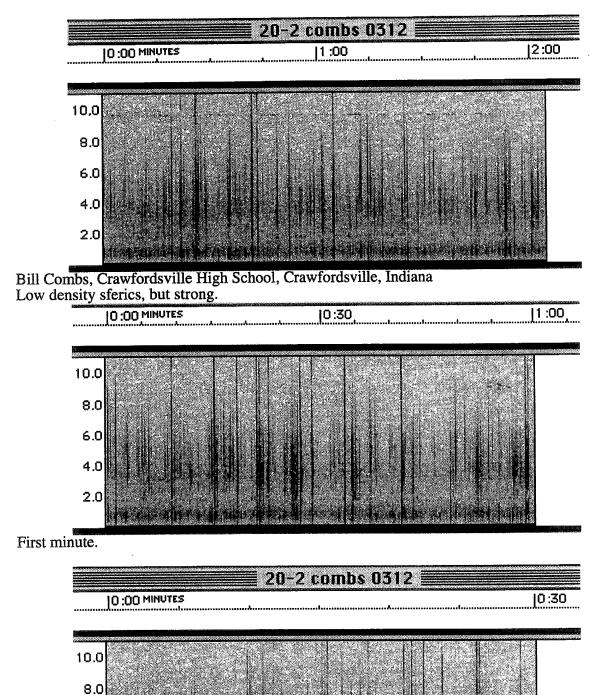
First 30 seconds. Four OMEGA stations present. Many tweeks as evidenced by the band of hooks at about 2 kHz.





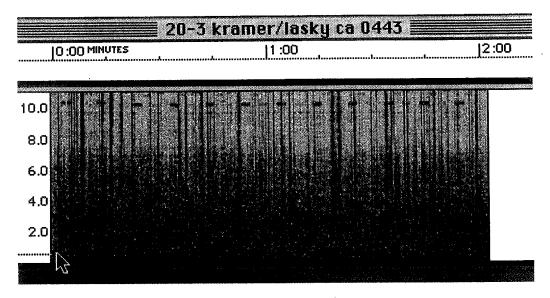
First 10 seconds. Two strong OMEGA stations present: HI followed by ND. Japan OMEGA station shows up at :09 seconds.



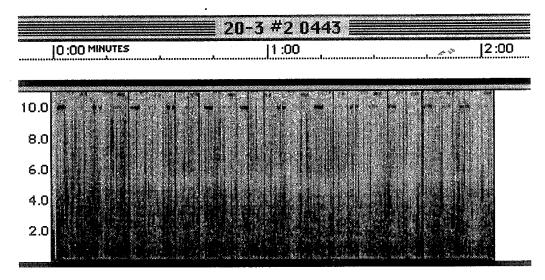


4.0 2.0

First 30 seconds. Note the burst of sferics just past 25 seconds.

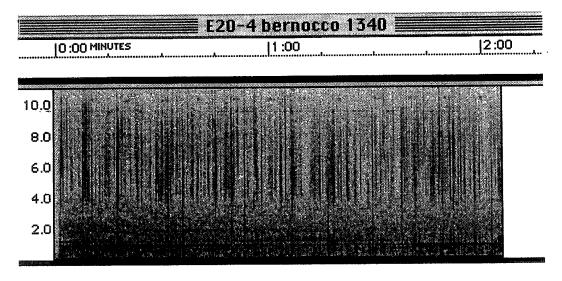


Clifton Lasky and Larry Kramer, Fresno, California Dense sferics and tweeks, strong OMEGA, arrow points to 0443 WWV tone.

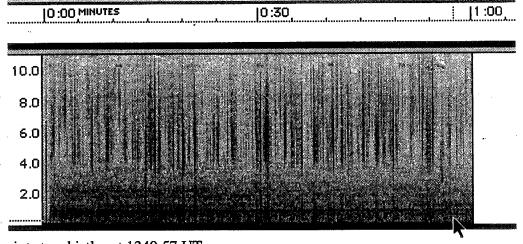


Bill Pine, Chaffey High School, Ontario, California This data gathered about 250 miles south of the Fresno team.

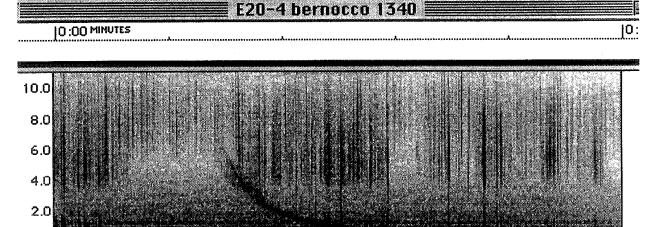
E20-4



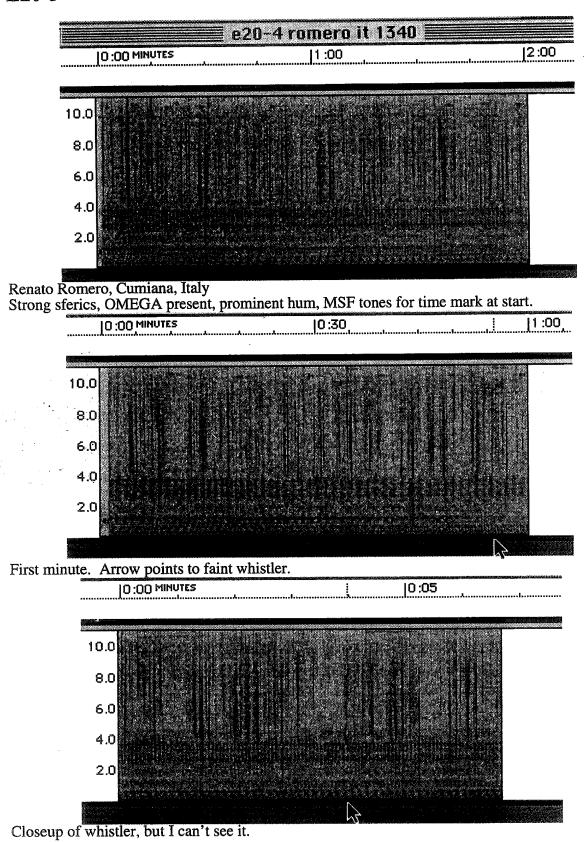
Silvio Bernocco, Torino, Italy Strong sferics, OMEGA present, lots of AC hum below 2 kHz.



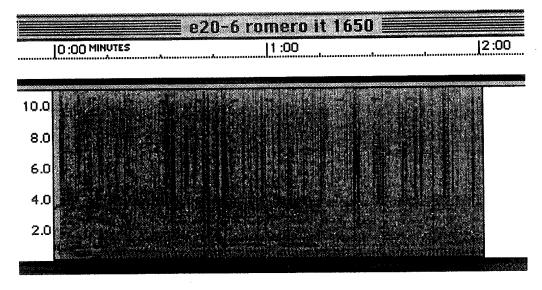
Arrow points to whistler at 1340:57 UT



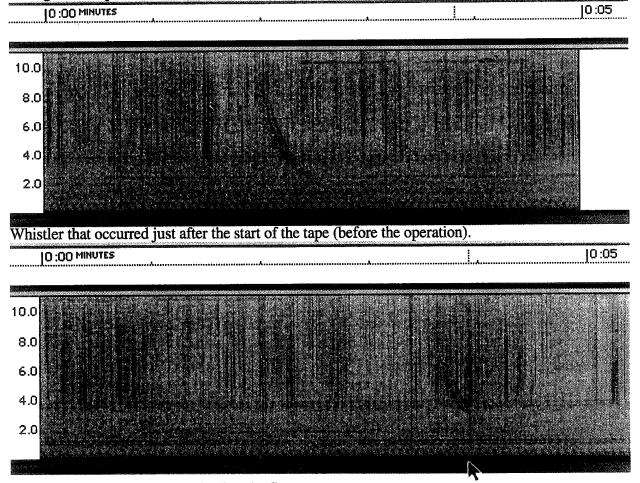
Closeup of the above whistler. Notice the long ramp below 2 kHz.



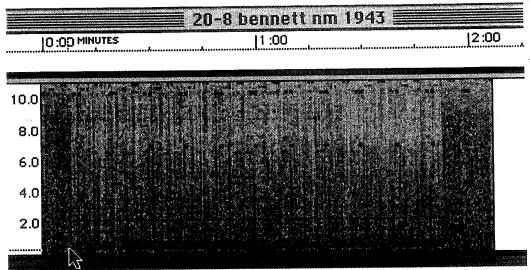
E20-6



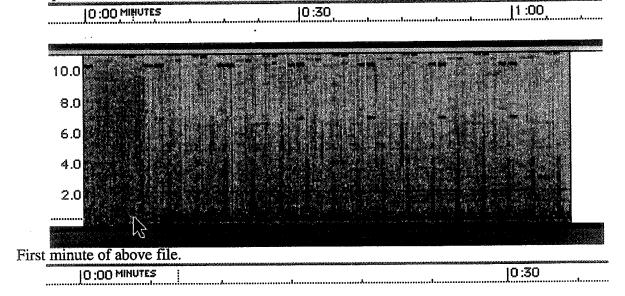
Renato Romero, Cumiana, Italy Strong sferics, prominent hum.



Another whistler a few seconds after the first.

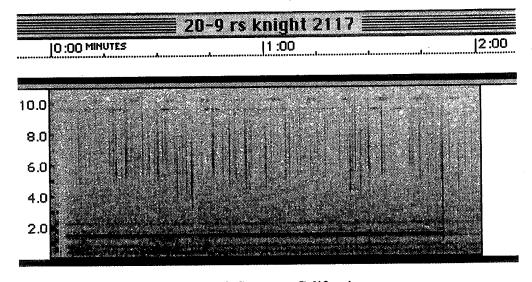


Robert Bennett, Las Cruces, New Mexico Arrow points to 1943 WWV tone; sferics, LORAN and OMEGA (note aliasing of OMEGA dashes at frequencies below 10 kHz.)



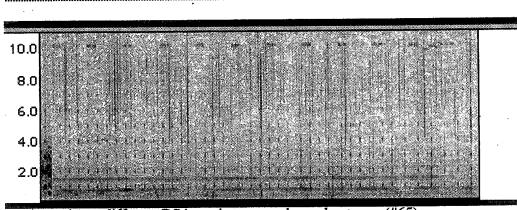
10.0 8.0 6.0 4.0 2.0

First 30 seconds. Arrow is WWV tone, OMEGA plus aliasing and LORAN are evident.



Dean Knight, Sonoma Valley High School, Sonoma, California Medium density sferics, OMEGA present, some AC hum and wind noise,

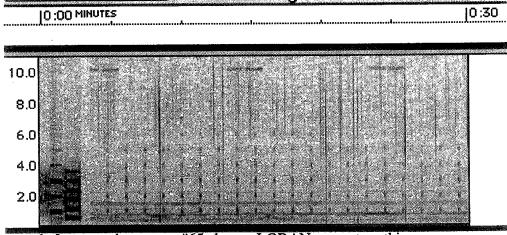
10:00 MINUTES



11:00

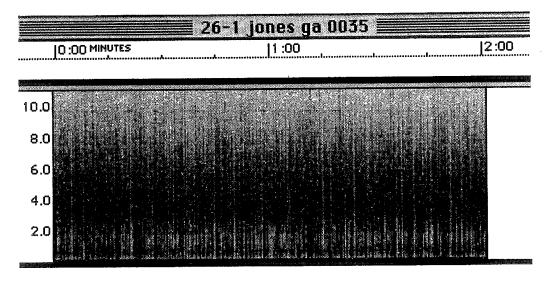
2:00

Same operation using a different RS4 receiver, recorder and antenna (#65).

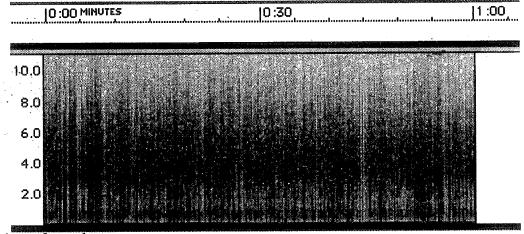


20-9 #65 kniaht 211

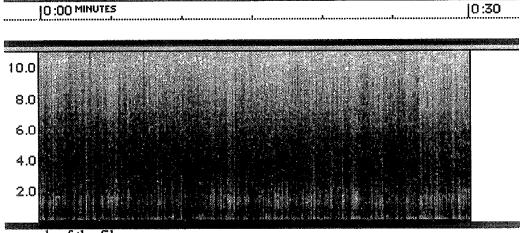
First 30 seconds from receiver setup #65 above. LORAN present on this one.



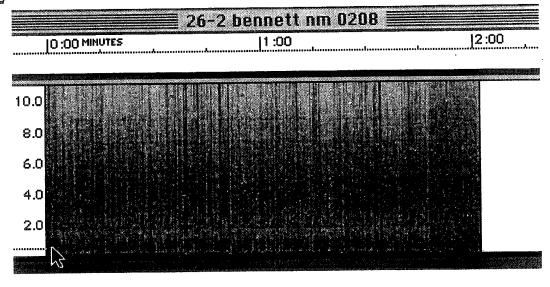
David Jones, Columbus, Georgia Very dense, strong sferics due to nearby thunderstorm activity.



.First minute from above.

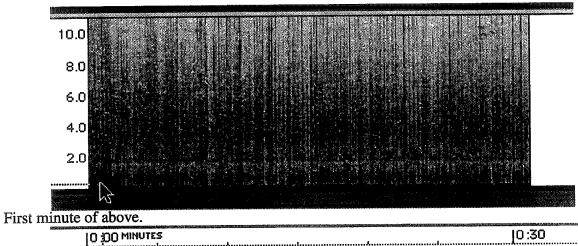


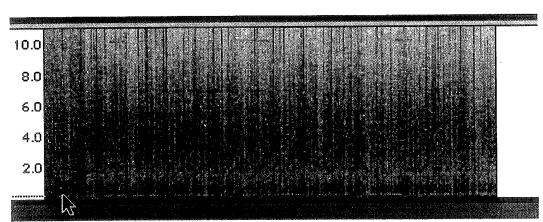
First 30 seconds of the file.



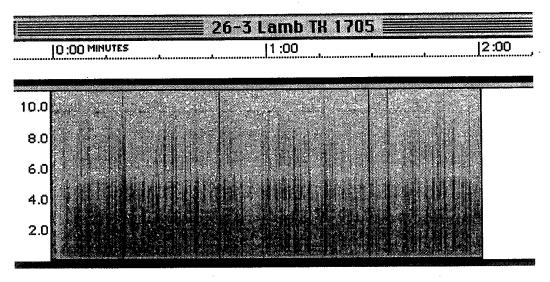
Robert Bennett, Las Cruces, New Mexico Dense, strong sferics. Raining at time of operation. Arrow points to 0208 WWV tone. 10:00 MINUTES [1:00

05:0

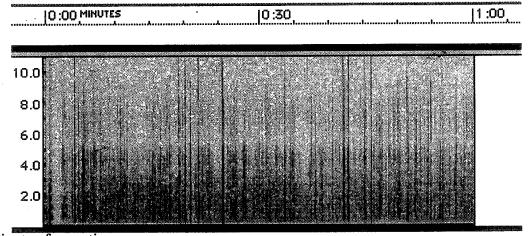




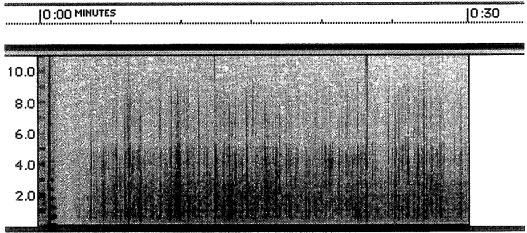
First 30 seconds.



Jack Lamb, Belton, Texas Dense sferics; file starts with the 1705 WWV tone.



First minute of operation.



First 30 seconds. Note the absence of AC hum.