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azimuth vespagram

command: VESPA_AZ <az1> <az2> <azstep> <slowness> <power>

Computes vespagram from all traces of the display. For each azimuth value from <az1> to <az2> in steps of <azsteps> a beam trace is computed (using slowness <slowness>). On the summation the <power>-th root process is applied. <power>=1 means plain summation. The input traces are hidden after execution of this procedure. To get them back, enter the command "DISPLAY h:all". Each output trace corresponds to an azimuth value. The azimuth value is given in the "comment"-entry of the trace. It is convenient to switch the trace info text to "comment" by the command "TRCTXT ^comment (\$x)".

parameters

- <az1>, <az2> *parameter type: real*
Azimuth window. Units in degrees.
- <azstep> *parameter type: real*
Step size within azimuth window. Unit in degrees.
- <slowness> *parameter type: real*
Beam slowness in deg/sec.
- <power> *parameter type: real*
Before each summation the <power>-th root of the input traces is computed. The result trace is then taken to the <power>-th power.

examples

```
vespa_az 30.0 50.0 1. 6.3 1.  
usual vespagram (plain summation)
```

```
vespa_az 30.0 50.0 1. 6.3 4.  
4-th root process on each summation
```

commands used

- BEAM
- CALC
- COPY
- DEFAULT
- DEL
- ECHO
- GOTO
- HIDE
- IF
- NR
- RD
- RETURN

- SDEF
- SET
- SHIFT
- SUM
- SWITCH
- TRCFCT