

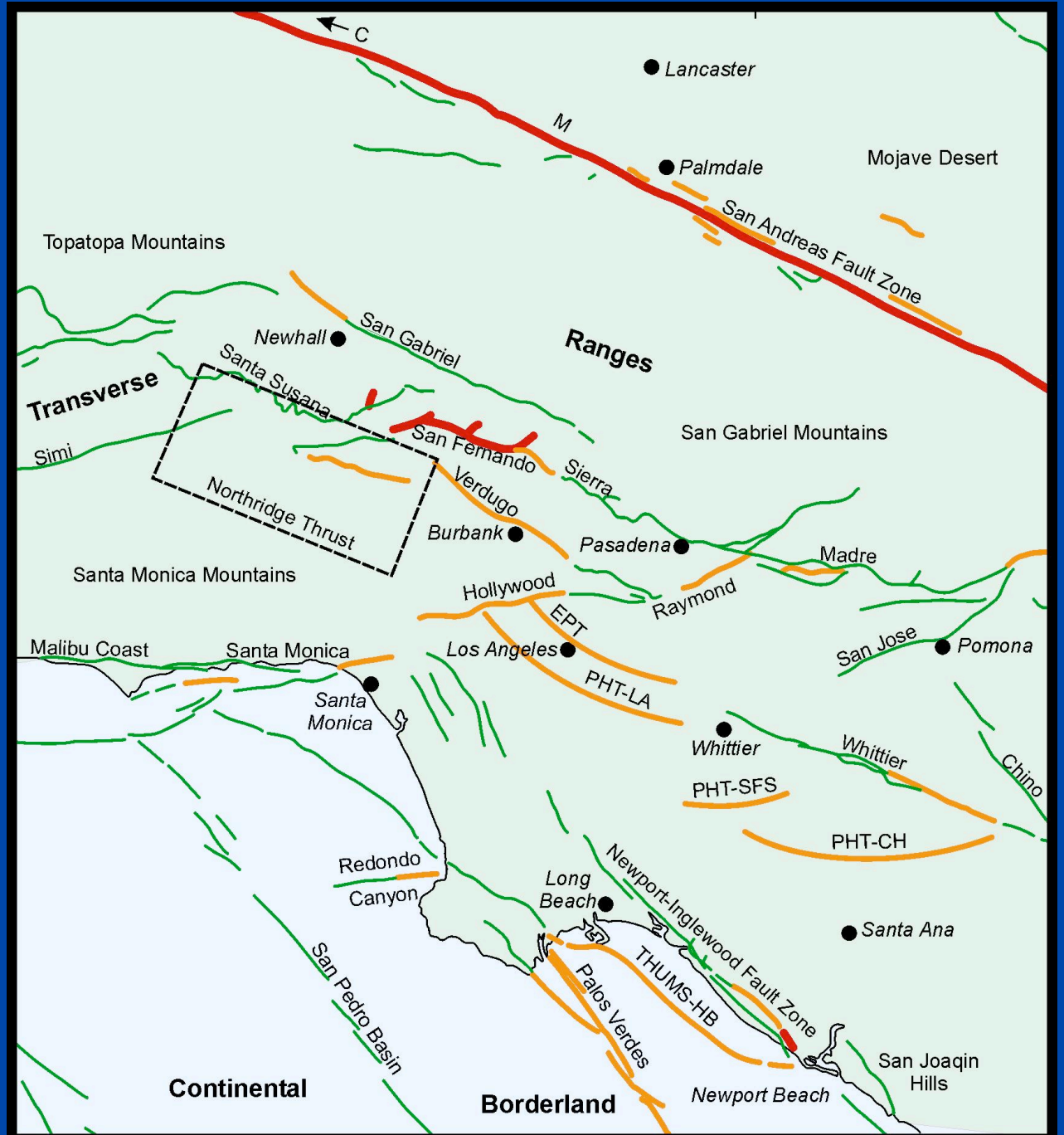
Time – History Selection and Scaling

C. B. Crouse
URS Corporation

Presentation

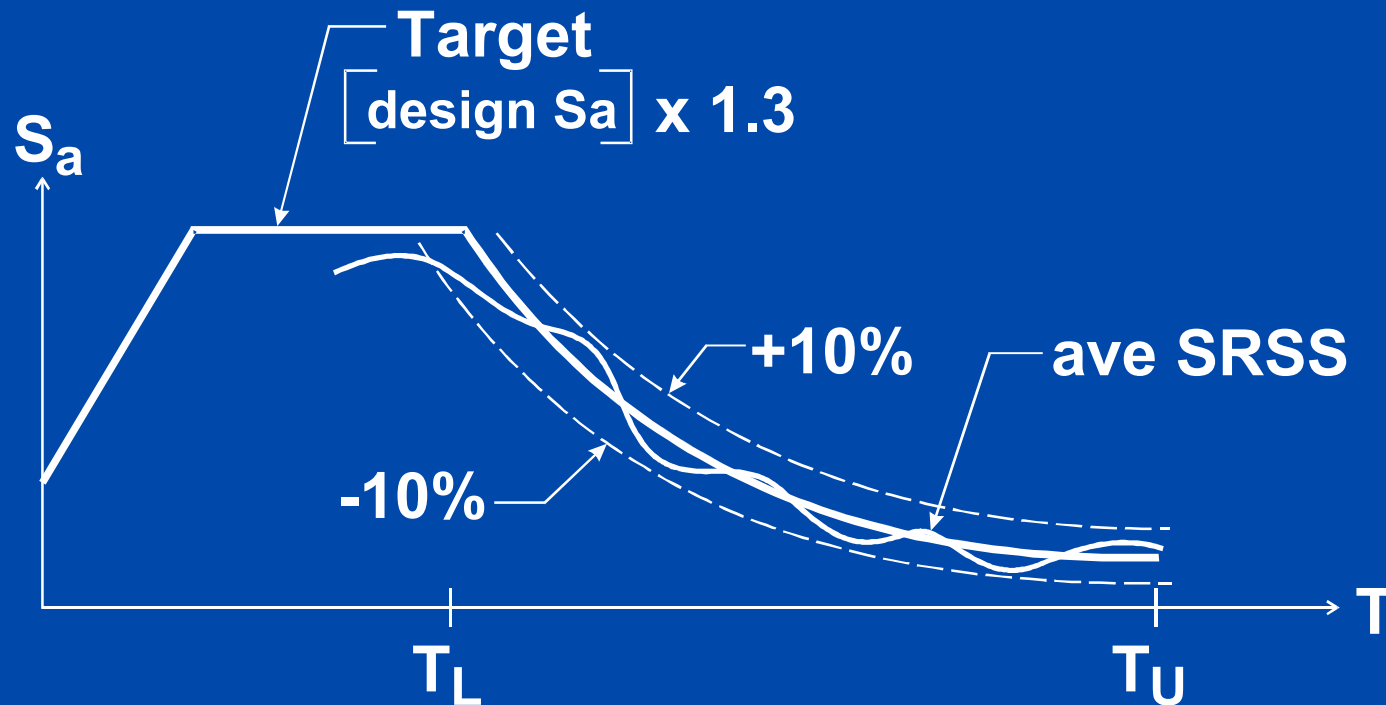
- Base-Isolation Case History (L.A.)
 - Criteria
 - Approach
 - Results
- Questions and Issues

Fault Map



Criteria – H comp.

- 7 pairs – real accelerograms
- Fit Criteria



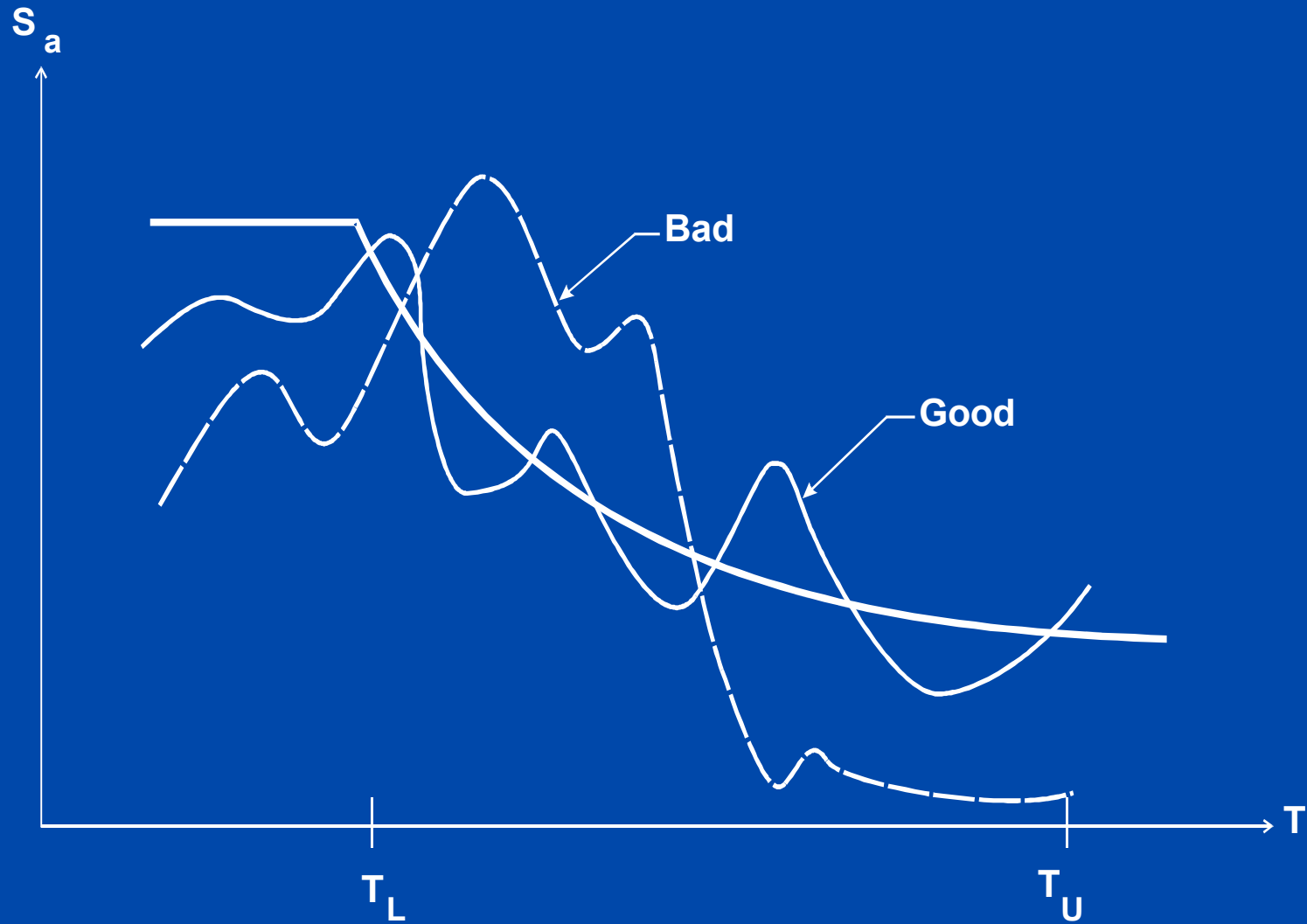
Criteria (cont.)

- No frequency modifications
- One scale factor/record
 - 0.7 – 1.5 (EQ-III)
 - 0.5 – 2.0 (EQ-IV)
- Period band: 1.25 to 4.5 sec

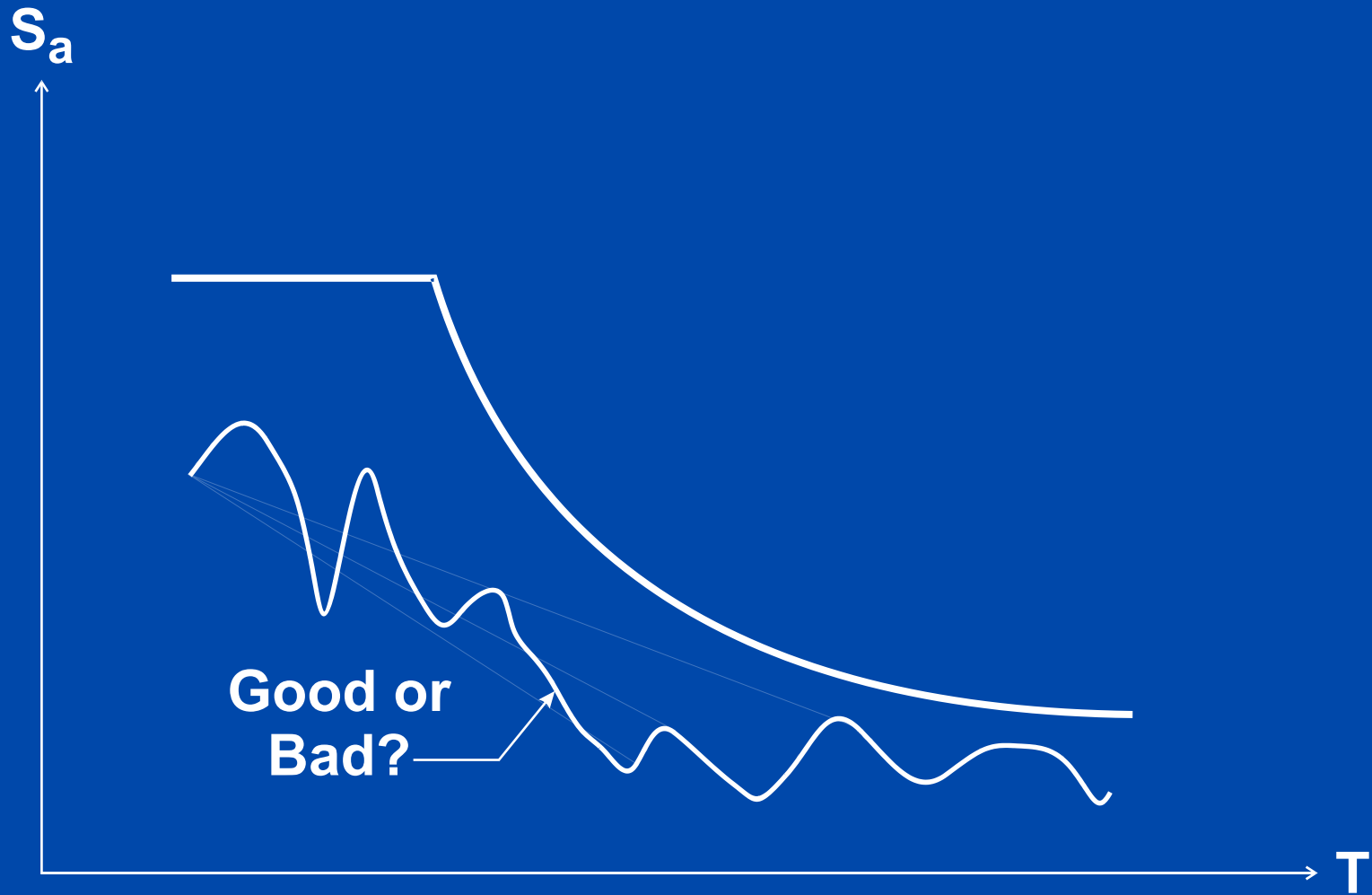
COSMOS VDC can help

- Basic Record Search
 - M & R
 - Fault type
 - PGA
- Advanced Search

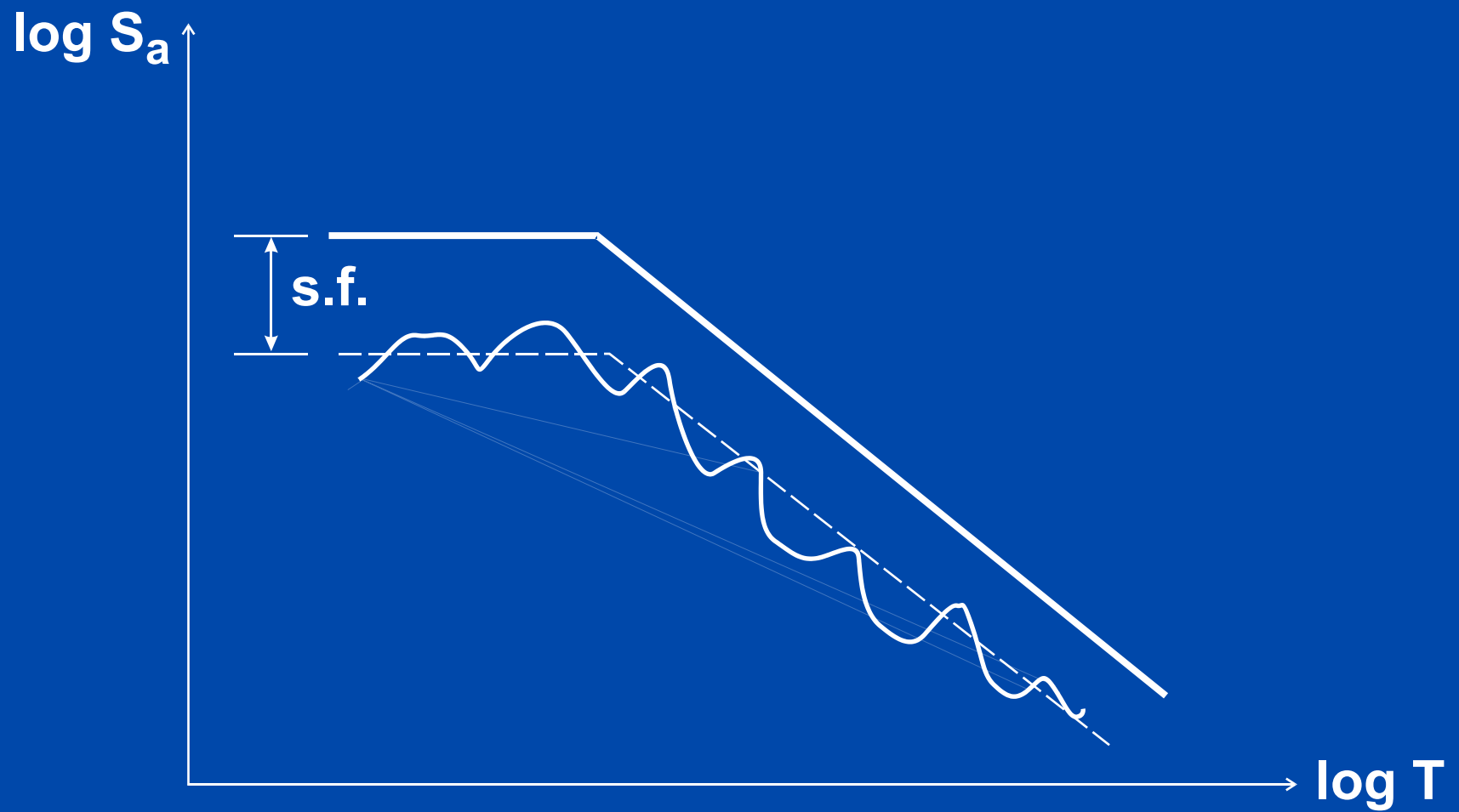
Selection



Selection

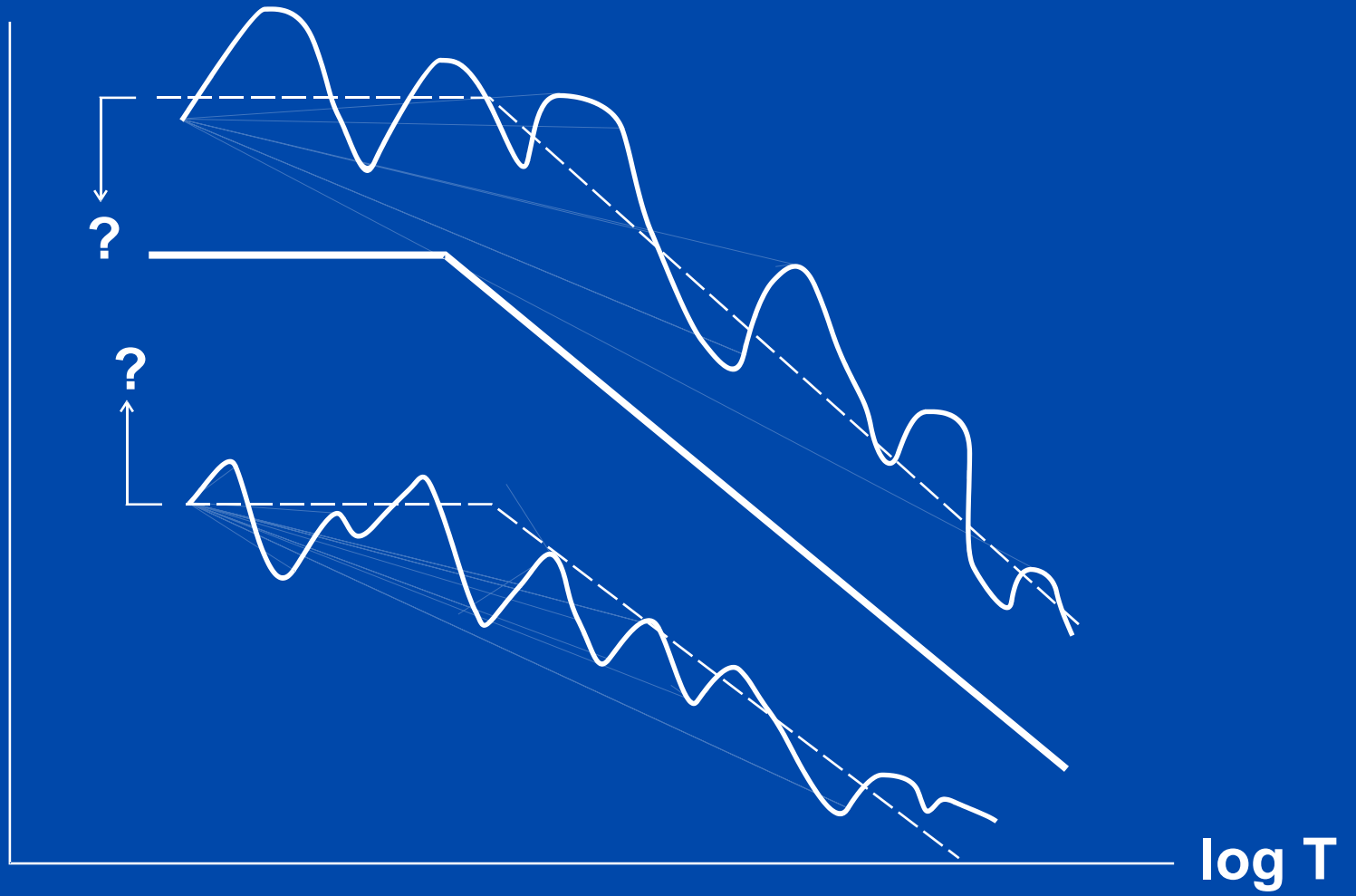


Selection

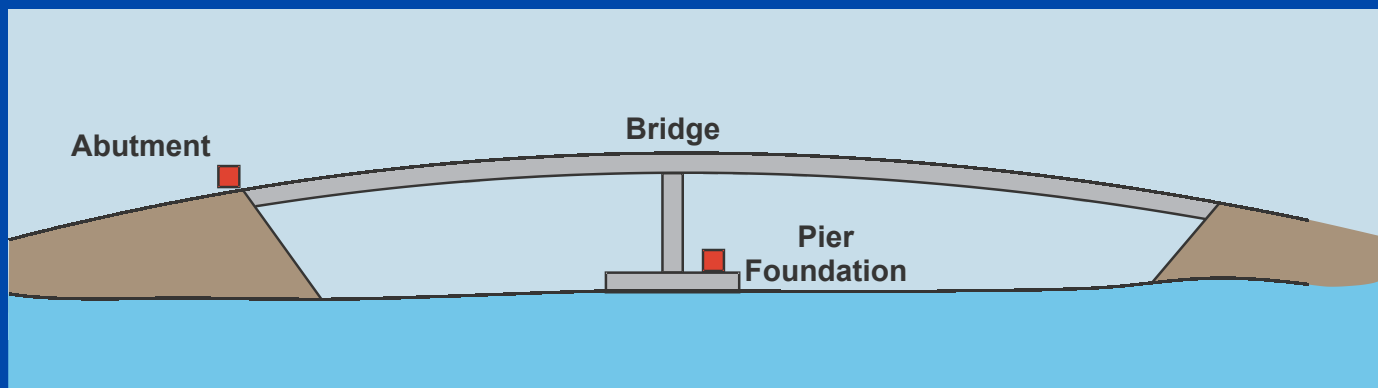
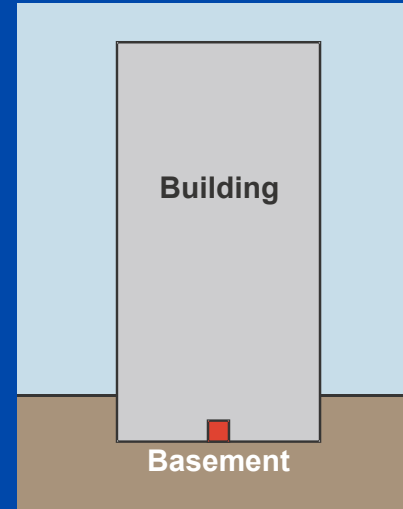
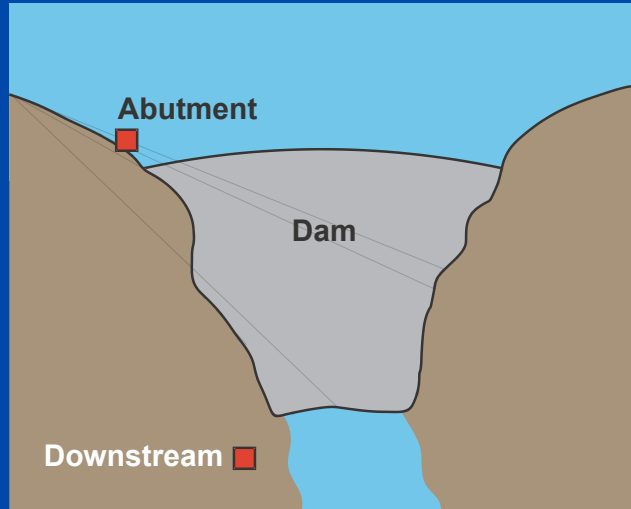


Scaling

$\log S_a$



Taboo?



Conclusions

- Records can be found to achieve SRSS
- Compromises in search parameters may be necessary
- COSMOS VDC can help search for records