

## List of Symbols/Abbreviations

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1. $\rho$	Density
2. 1 D	One dimensional
3. 3 D	Three dimensional
4. ASCII	American Standard Code for Information Interchange
5. BT	Barsar Thrust
6. CFF	Coulomb failure function
7. CMT	Centroid Moment Tensor
8. CN	Chamba Nappe
9. CNF	Chenab Normal Fault
10. CT	Chamba Thrust
11. DC	Double couple
12. EET	Effective elastic thickness
13. GHC	Greater Himalayan complex
14. GPS	Geographical positioning system
15. GUI	Graphic user interface
16. HFT	Himalayan Frontal Thrust
17. HH	Higher Himalaya
18. HHC	Higher Himalayan Crystalline
19. HHS	Higher Himalayan sequence
20. IGP	Indo-Gangetic plain
21. ISC-EHB	International Seismological Centre EHB Bulletin
22. ITSZ	Indo-Tsangpo suture zone
23. JHD	Joint hypocenter determination
24. JMT	Jawalamukhi thrust
25. KCF	Kaurik Chango fault
26. KF	Karakoram Fault
27. KNF	Karcham normal fault
28. KWF	Kishtwar fault
29. LH	Lesser Himalaya
30. LHS	Lesser Himalayan sequence
31. LPDZ	Leo-pargil detachment zone
32. LT	Lapse Time
33. MBT	Main Boundary Thrust
34. MCT	Main Central Thrust
35. MHT	Main Himalayan Thrust
36. $M_L$	Richter Magnitude
37. MMT	Main Mantle thrust

38. MT	Moment tensor
39. Mw	Moment magnitude
40. NAT	North Almora Thrust
41. NEIC	National earthquake information center
42. NHA	North Himalayan Antiform
43. NW	Northwestern
44. PIZ	Panjal Imbricate Zone
45. PMT	Palampur Thrust
46. PT	Panjal Thrust
47. $Q_c$	Coda quality factor
48. $Q_p$	Quality factor for P-waves
49. $Q_s$	Quality factor for S-waves
50. RMS	Root Mean Square
51. SAC	Seismic Analysis Code
52. SAT	South Almora Thrust
53. SEED	Standard for the Exchange of Earthquake Data
54. SH	Siwalik Himalaya/Sub Himalaya
55. SNF	Sundarnager fault
56. SNR	Signal to noise ratio
57. STD	South Tibetan Detachment
58. SVD	Singular value decomposition
59. $T_e$	Effective elastic thickness
60. THS	Tethys Himalaya Sequence
61. TSM	Tso-Morari fault
62. USGS	United State Geological Services
63. $V_p$	P-wave velocity
64. $V_s$	S-wave velocity
65. WIHG	Wadia Institute of Himalayan Geology
66. WL	Window length
67. $\Delta CFS$	Coulomb static stress change
68. $\Delta \sigma_n$	Change in normal stress
69. $\Delta \tau$	Shear stress change
70. $\mu'$	Coefficient of effective friction