LONG-TERM CUTOFF CHANGES AND L PARAMETER AT LARC NEUTRON MONITOR LOCATION

K. Kudela (1), M. Storini (2,3)
(1) IEP SAS Kosice, Slovakia,(2) IFSI/CNR, Roma,Italy,(3)Univ. Roma Tre

Storini et al. [1] found a significant change of the effective, lower and upper cutoff rigidities at LARC station (62° 12' 09" S, -58° 57' 42" W) over the past 40 years. Being the vertical cutoff rigidities well approached by the L parameter [2], we computed the L values using the Galperin and Zinin code [3]. Results show relatively strong variation, from 2.107 in 1965 to 2.240 in 1995. Moreover, the comparison between predicted cutoffs, as derived from [2], and the long term L evolution at LARC position is made. The cutoffs are well organized according to L and are indicating a dependence even steeper than L^2.

3. Galperin and Zinin, personal communication, 2000