

论文

一种震相拾取误差的自动判别和计算方法

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摘要 本文给出了一个主要用于深地震测深数据的震相识别误差(不确定性)的判别和计算方法.该方法集中讨论从记录截面拾取震相这一过程所引起的判别误差.以震相前后一定时窗内的地震记录振幅的均方根之比为判别依据,找出误差分布范围并给出走时误差与振幅比的分级相关函数.由此,当震相确定后,计算程序将根据记录数据自动算出识别误差.实践证明该方法不仅更加客观真实、方便快捷,而且为今后震相提取工作的进一步科学规范打下了基础.

关键词 [深地震测深](#) [震相](#) [误差](#) [振幅比](#)

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A method for automatically identifying and calculating the uncertainty in phase picking

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Abstract We give a method for use as the data of deep seismic sounding which identifies and calculates the uncertainty automatically in phase picking. Our attention is concentrated on discussing the identifying uncertainty in the process of picking phase from recording section. It is based on the around ratio of root mean square of oscillation amplitudes of a phase in a certainty window of time, the distribution of uncertainty is found and the correlation function of uncertainty with ratio of amplitude are given. With this method, the programme can calculate the uncertainty automatically when the phases in the recorders are confirmed. Our tests bear out that this method is not only more impersonality, convenient and rapid but is making the work of phase picking more scientific and canonical.

Key words [deep seismic sounding](#); [phase](#); [uncertainty](#); [ratio of amplitude](#)

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