

عنوان مقاله:

Recent Seismic Activity in Northern ALGERIA

محل انتشار:

چهارمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1382)

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خلاصه مقاله:

In these last twenty years, northern Algeria experienced a number of moderate sized earthquakes. Among these events, the most important were earthquakes of Constantine, October, 27th, 1985, $M_I=6.0$; Tipaza, October, 29th, 1989, $M_I=6.0$; Mascara, August, 18th, 1994, $M_I=5.7$; Ain Benian, (Algiers) September, 4th, 1996, $M_I=5.8$; Ain Temouchent (Oran region), December, 22th, 1999, $M_I=5.8$; Beni Ouartilane (Bejaïa region), November, 10th, 2000, $M_I=5.4$. They caused large damages to the urban centers located in the epicentral areas and many people were killed. Although less studied than the El Asnam earthquake due to the difficulties to carry out field investigations, the occurrence of these seismic events allowed to precise deformation of the northern region. First of all, we can point out that :- the Tellian region is the most active region. In this later, the recent activity expressed more in the western and central regions of Algeria.- Second, the occurrence of these earthquakes revealed six faults never mapped before. They are reverse faults or thrust faults oriented NE-SW, dipping to the NW, and distributed 'en echelon' in the intermountain basins. The existence of some of the coastal faults (Tipaza fault, Ain Benian fault) which extended in the Algerian margin, explain now many offshore epicenters located previously.- From the focal mechanism, we notice that from the western to central part of the northern region, compressional movements express, indicating a NW-SE stress regime; in the eastern region, strike slip movements generated by the faults indicate a reorientation in a NS stress regime.- Occurrence of last moderate earthquakes confirms that the northern region of Algeria is under compression due to the convergence of the two major plates the African and Eurasian plates.

کلمات کلیدی:

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