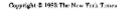
Ehe New Hork Eimes





BANON Mesopotamta, the 'cracke of civilization between the . F. Tigris and Euchtrales, had rival div space, About 4,300 years ago: the Akkadians, to the north, game to dominate a wide region under a dynasty founded by Sargon.

River and on the fruitful plains to the north, all in what is now Iraq, Syria and parts of southern Turkey. Then, after only a century of prosperity, the Akkadian empire collapsed abruptly, for reasons that have been lost to

The traditional explanation is one of divine retribution. Angered by the hubris of Naram-Sin, Sargon's grandson and most dynamic successor, the gods supposedly unleashed the barbaric Gutians to descend out of the highlands and overwhelm Akkadian towns. More recent and conventional explanations have put the blame on overpopulation, provincial revolt, nomadic incursions or managerial incompe-(cncc, though many scholars despaired of ever klentifying the root cause of the collapse.

A team of archeologists, geologists and soil scientists has now found evidence that seems to solve the mystery. The Akkadian empire, they suggest, was beset by a 300-year drough and literally dried up. A microscopic analysis of soil moisture at the runs of Akkadian cities

Such a devastating drought would explain the abandonment at that time of Akkadian cities across the northern plain, a puzzling phenomenon observed in archeological excavations. It would also account for the sudden migrations of people to the south, as recorded in texts on clay tablets. These migrations doubled the populations of southern cities, overtaxed food and water supplies, and led to fighting and the fall of the Sargon dynasty.

The new findings thus call attention to the role of chance - call it fate, an act of God or simply an unpredictable natural disaster — in the development of human cultures and the rise and fall of civilizations.

Among the drought's refugees were a herding people known as Amorites, characterized by scribes in the city of Ur as "a ravaging people with the instincts of a beast, a people who know not grain" - the ultimate put-down in an economy based on grain agriculture. An 110-mile wall, called the "Repeller of the Amorites," was crected to hold them off. But when

Continued on Page C10

Migrations to escape privation:

Clay tablets recorded migrations of people to the south, where the Influx doubled the population of cities, overtaxed food and water supplies and led to civil unrest, fighting and the fall of the dynasty founded by the Akkadian ruler Sargon. Some of the refugees, a group of migratory herders called Amorites, eventually assumed leadership at the rising city of Babyton, founding a great empire.