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## 2008年汶川大地震临震前震中附近是否存在显著的地壳垂直运动?

王 敏1) 沈正康2)

1)中国地震局地质研究所,地震动力学国家重点实验室,北京 100029 2)北京大学地球和空间科学学院,北京 100871

摘 要 2008年5月12日的汶川 M,8.0 地震是自1976年唐山地震以来发生在中国大陆的最大 灾难事件。地震发生后有人通过对数据的动态处理分析认为在地震前1b 内震中附近有非常显著的 地壳垂直运动发生,从而提升了地震学界对通过高频 GPS 观测技术实现地震短临预报的预期。GPS 高频观测技术是近年来 GPS 技术发展的一个重要方面,在研究地震前后地壳形变短期变化过程、地 震震源破裂过程等方面取得了非常广泛的应用,但数据解算的精度和可靠性还是受到多种因素的制 约。文中提出了 1 种基于数据静态处理得到的载波相位观测残差来分析测站位置动态变化的方法。 并采用这种方法对汶川地震前震中附近几个 GPS 连续站的数据进行分析。结果表明汶川地震前震中 附近并不存在显著的地壳运动。

关键词 GPS 静态/动态数据处理 汶川地震 地壳垂向形变

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## 0 引言

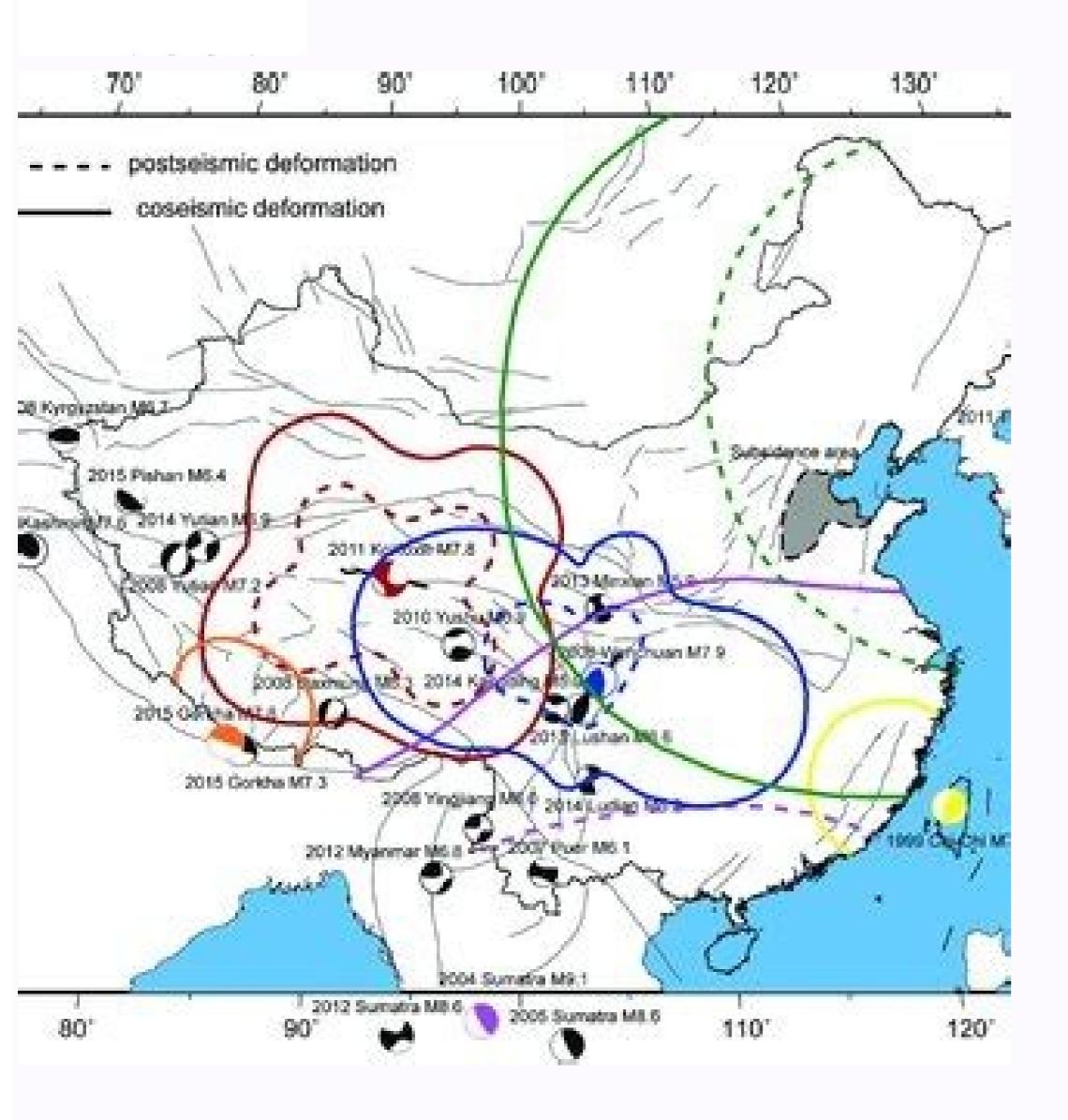
地震是否可预测在学界一直存在争议。理论上,地震前由于应力应变逐渐积累和加强,震源区及附近物质发生一系列物理、化学和生物的异常变化是可能的。由于相似的变化也可能有其他的成因,因此如何捕捉这些异常变化及如何区分异常的成因就非常关键。近 10 年来中国大陆及周边地区发生多次大地震,每次大震发生后都有关于震前异常的研究论文发表。这些研究在一定程度上对强震研究以及未来地震活动监测分析是有意义的。但是,也有很多震前异常的证据经不住推敲,不排除是受到与地震发生过程无关的一些事件,如气象、潮汐、人为干扰等因素的影响。

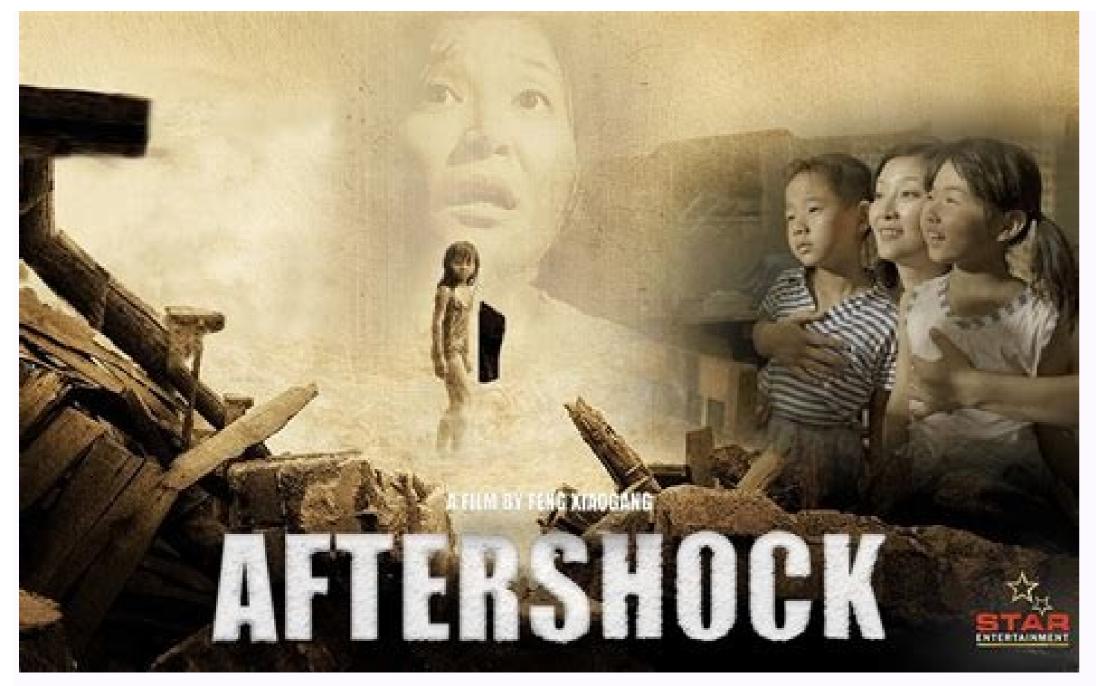
2008年5月12日的汶川 M, 8.0 地震是自1976年唐山地震以来发生在中国大陆的最大灾难事件, 地震造成近9万人遇难, 直接经济损失达8千亿元人民币。地震发生3年后, 顾国华等(2011)通过对GPS 数据的动态(单历元)处理认为, 在地震前1h 内震中附近有非常显著的地壳垂直运动发生, 其中距震中约36km 的郫县GPS连续站(PIXI)垂向位移超过300mm。这一成果的发表很大程度上提升了地震学界对通过高频GPS 观测技术实现地震短临预报的预期, 如果确实发生了如此大的变化并能排除非构造成因, 那么对于地震的监测和预报将具有非

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California, we can now say only that certain densely populated areas will almost certainly experience a great earthquake at some time within the next 100-200 years. Although effort and money are now being expended to design structures so as to avoid collapse during such an earthquake, a great deal is being left undone because of the lack of a sense of urgency that a more precise short-term prediction might induce. For example, many structures in metropolitan areas of high population density and high seismicity will surely fall in a great earthquake, but because of the lack of precision in our estimates of the time of their and the world of the sense of the lack of a seismicity will surely fall in a great earthquake, but place and time would alert utility companies to possible difficulties and induce community leaders to take actions that would minimize loss of life and property damage.







1976 tangshan earthquake facts. 1976 tangshan earthquake.

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[17] Strong shocks of settlement, some higher than 6 ms, continued to hit the area until several months after the main shock, causing further victims and damage. The Earthquake Also Caused the Largest Number of Geohazards Ever Recorded, Including about 200,000 Landslides and More Than 800 Quake Lakes Distributed Over An Area of strong of the country from the 1950 "Tibet earthquake, which was recorded at 8.6 on the scale of the magnitude of the Moment. [25] It is the 18th more fatal earthquake of all time. On November 6, 2008, the central government announced that he would spend 1 Trilione of RMB (about 146.5 billion isenic is etatsaved eera el eriurtsocir rep inna ert imissorp ien stimulus program. Geology according to a study by China Earthquake occurred along the Eurasian plate and the Eurasian plate. Seismic activities focus on its medium fracture (known as Fracture Yingxiu-Beichuan). The rupture lasted almost 120 seconds, with most of the energy released in the first 80 seconds, with most of the energy released in the first 80 seconds. Starting from Wenchuan, the break spread to an average speed of 3.1 km/s (6.900 mph), 49 ° to the north-east, for a total of about 300 km (190 mi). The maximum move amounts to nine meters (30 ft). Attention was more than 10 km deep (6.2 mi). [27] In a study by the United States Geological Survey (USGS), the preliminary breaking models of the earthquake indicated the movement up to nine meters (30 ft) along a fault of about 240 km (150 mi) of 20 length Km (12 mi) of depth. [28] The earthquake generated deformations of the surface greater than three meters (9.8 ft) [29] and increased stress (and the probability of occurring future events) to the north-west ends. [29] On May 20, the American seismologist Tom Parsons warned that there is "high risk" of an important Doposhock M> 7 in the coming weeks or months. [30] The Japanese seismologist Yuji Yaqi at the University of Tsukuba said that the earthquake occurred in more than 1 phase: "The 250 kilometers (155 mi) Longmenshan fault tore in two sections, the first who torn about 6, 5 meters (4 YD). "[31] His data also showed that the earthquake lasted about two minutes and released the great energy 30h 1995. He stressed that the low entity of the epicenter and the density of the population significantly increased the gravity of the earthquake. Teruyuki Kato, a seismologist at the University of ,zneB yelraH .rD ]33[".0.8Â AsM fo ekaughtrae tneloiv eht ni noitalumucca sserts fo Retni eht .hsup dna dna eht otno eht Fo eht Fo Ekirts eht morf emcnehtuos s'nauqhre ehtuos Ec Afrus eht ,Rtnecipe eht Fo Tsaehtron )imâ ã,91( sertemok 03 tuoba aera ni .tluaf eht ot ot ralucidnep-latnoziroh )Tfâ (serm 8. ,lacitrev )tfâ Ã11( sertem 5.3 tuoba saw tluaF nauhcieB eht ot ot ralucidnep-latnoziroh )Tfâ (serm 8. ,lacitrev )tfâ Ã11( sertem 5.3 tuoba saw tluaF nauhcieB eht ot ot ralucidnep-latnoziroh )Tfâ (serm 8. ,lacitrev )tfâ Ã11( sertem 5.3 tuoba saw tluaF nauhcieB eht ot ot ralucidnep-latnoziroh )Tfâ (serm 8. ,lacitrev )tfâ Ã11( sertem 5.3 tuoba saw tluaF nauhcieB eht ot ot ralucidnep-latnoziroh )Tfâ (serm 8. ,lacitrev )tfâ Ã11( sertem 5.3 tuoba saw tluaF nauhcieB eht ot ot ralucidnep-latnoziroh )Tfâ (serm 8. ,lacitrev )tfâ Ã11( sertem 5.3 tuoba saw tluaF nauhcieB eht ot ot ralucidnep-latnoziroh )Tfâ (serm 8. ,lacitrev )tfâ Ã11( sertem 5.3 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[2.0 years] and its collision collision Eurasia, with the consequent increase in the Himalaya and the Tibetan plateau and associated earthquake activity. This deformation also translates into the extrusion of crusta material from the upper Plateaux Tibetan to the South -Edoriental China. China frequently suffers from large and fatal earthquakes. In August 1933, the Diexi and surrounding villages, and caused many landslides, some of which dazzled the rivers. Intensity and damage area this section needs further quotes for verification. Please help improve this article by adding quotes to reliable sources. The material not supplied can be contested and removed. (May 2021) (Learn how and when to remove this model message) The map of the earthquake in the center published by the CEA after examining 500,000 km2 of the affected area shows a maximum coast of XI on the scale of Chinese seismic intensity (CSIS), Described as "very destructive" on the European Macrosessic Scala (EMS) from which the CSIS refers. [6] (Usgs, using the modified Mercalli Intensity scale (CC), also placed the maximum intensity to XI, "extreme". [5] Two southern stripes-west-north-east of Liedu XI are centered around Yingxiu, Wenchuan (the most closest city to the epicenter of the main earthquake) and Beichuan (the most closest city to the epicenter of the main earthquake) and Beichuan (the most closest city to the epicenter of the main earthquake) and Beichuan (the most closest city to the epicenter of the main earthquake) and Beichuan (the most closest city to the epicenter of the main earthquake) and Beichuan (the most closest city to the epicenter of the main earthquake) and Beichuan (the most closest city to the epicenter of the main earthquake) and Beichuan (the city repeatedly affected by strong Mishocks of 2008 including an SQ register. The Yingxiu Liedu-Xi area is about 66 km long (41 mi) and large 20 km long Wenchuan-Dujiangyan-sagzhou; the Beichuan Liedu-Xi area is about 82 km long and 15 km wide long an county-berhuan-pingwu. The area affected by earthquakes Liedu Totali 440,442 ã ¢ km2 (170.056 sqã ¢ mi), occupying an oval 936 km (582 ã ¢ mi) long and 596 km (370 ze) of width, which cover three provinces and an autonomous region. [Necessary quotation] Qlarm (alteral for loss of four response and mitigation) emits estimates almost in real time of victims and number of injuries for earthquakes all over the world. Recent alerts are available on the Web page of the Institute for Earth Simulation Foundation. [36] This notice was issued 21 minutes after the Wenchuan earthquake of 12 May 2008. At the beginning it had been assigned M7.5 information, Qlarm distributed an E-mail to about 300 recipients who estimate that they had occurred from 1,000 to 4,000 victims. After learning that the earthquake can measure M8, Qlarm distributed within 100 minutes from the Wenchuan earthquake. [Necessary quote] The news and official news of victims is often strongly misleading. After the Wenchuan earthquake, the officials led the public to believe for a week that the fatal accidents counted only a fraction of Cié who were truly (Figure 1). At the beginning, everyone expects the news to be an initial count that grows, not however, after a week. After so long, the relationships of false news face a reality to do the right and the calculations of the theoretical loss of the experts are discarded. [Necessary quote] Figure 1: official fatal relationships for the Wenchuan M8 earthquake according to the time. The squares show fatal accidents, the triangles show the sum of more disappeared people, who in the end have equal to the number of victims. The diamond is li li osrevartta elacitrev e adilos aenil allad itinrof irolav ilibissop id ollavretni'l noc ,otomerret li opod itunim 001 mralq amits The horizontal line dictated by a dash indicates the average value of the victims calculated by Qlarm. Figure 2: Map of settlements with the average damage estimated due to the Wenchuan earthquake modeled as a line break that extends to the postshocks. Once the extension of the Wenchuan earthquake has become known, qlarm calculated a more detailed picture of the losses. Figure 2 shows a map of the medium damage of the settlements affected by the Wenchuan earthquake on a scale of 5. The resistance to the threshing of buildings in the large cities is presumed to be strong that in the villages, therefore the damage and the percentage of deaths in the Large city is less than in the villages. [necessary quote] After having them on the night of May 12, Chengdu's residents take care of potential Postshocks gathered on the street to avoid staying in buildings. Between 64 and 104 main postshocks, which go to 4.0 to 6.1, were recorded within 72 hours of the main earthquake. According to the Chinese official accounts, "for 12:00 CST, on November 6, 2008, there were 42,719 total postshocks, of which 246 ran from 4.0 ms to 4.9 ms, 34 from 5.0 ms to 5.9 ms, and 8 from 6.0 ms at 6.4 ms; the most strong doposhock measured 6.4 ms. "[7] The last doposhock higher than M6 occurred on August 5, 2008. (the earthquake of ms 6.1 on 30 August 2008, in the south of Sichuan it was not part of this series because it was caused by a different defect. See the 2008 Panzhihua earthquake for details.) Damage and victims USGS Shake Map The earthquake had a magnitude of 8.0 ms [3] [14] [15] and 7.9 MW. [4] [27] The epicenter was in the county of Wenchuan, Ngawa Tibetan and Qiang Autonomous Prefecture, 80 km (50 MI) to the west/northwest of the provincial capital of Chengdu, with its main tremor that occurs at 2: 28: 01.42 China Standard Time (06: 28: 01.42 UTC), [37] on May 12, 2008, lasting about two minutes; In the earthquake almost 80% of the buildings were destroyed. Extract of the Del Places ordered by distance from epicenter (or time of propagation): A AMainland China: All provincial-level divisions except Xinjiang, Jilin and Heilongjiang were physically affected by the quake. [38] A Among Kong: Tremors were felt approximately three minutes after the quake, continuing for about half a minute. This was also the most distant earthquake known ever to be felt in Hong Kong. A AMacau: Tremors were felt approximately three minutes after the quake. [42] A AVietnam: Tremors were felt approximately five minutes after the earthquake in northern parts of Vietnam.[43][44] The intensity was MM III in Hanoi. A AThailand: In parts of Thailand tremors were felt six minutes after the quake to reach Taiwan, where the tremors continued for one to two eight and a half minutes after the quake.[40] A ÂPakistan: In parts of India.[40] A ÂPakistan: Iremors were felt in Tuva, no casualties reported.[40] A ÂPakistan: Tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan: Iremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported.[40] A ÂPakistan tremors were felt in Tuva, no casualties reported repo ten minutes and in Shan after 13 minutes.[40] Immediate aftermath The outside of a warehouse in disarray following the earthquake. Office buildings in Shanghai's financial district, including the Jin Mao Tower and the Hong Kong New World Tower, were evacuated.[47] A receptionist at the Tibet Hotel in Chengdu said things were After the hotel has evacuated its guests. [48] In the meantime, the workers of a Ford plant in Sichuan have been evacuated for about 10 minutes. [49] Chengdu Shuangliu international airport was closed and the control tower and control of the regional radar evacuated. legs of his quadruple path Daily Hong Kong in London due to this interruption of air traffic services. Chengdu Shuangliu airport was reopened more late on the evening of May 12, offering a limited service while the airport began to be used as a staging area for rescue operations. [51] Chengdu journalists said they had seen cracks on the walls of some residential buildings in the areas of the center, but buildings have not collapsed. [52] Many Towers of Beijing Offices have been evacuated, including the building that houses the media offices for the organizers of the 2008 summer Olympics. None of the Olympic places were damaged. [43] In the meantime, a mercantile train transported 13 petrol tanks derailed to Hui's county, Gansu, and took fire after the rail had been distorted. [53] The Miaziping bridge of Dujiangyan - Wenchuan Expressway was damaged in the earthquake. All the highways in Wenchuan Expressway was damaged in the earthquake. All the highways in Wenchuan and others in the whole province were damaged, causing a delay of arrival of the rescue troops. [54] [55] In Beichuan County, 80% of buildings collapsed according to Xinhua News. [56] In Shifang's city, the collapse of two chemical plants led to losses of about 80 tons of liquid ammonia, with hundreds of people reported buried and less than 60 surpassed. Juyuan Middle School, Many adolescents were buried, was excavated by civilians and cranes. [58] Dujiangyan is home to the Dujiangyan irrigation system, an ancient water reversal project that is still in use and is a UNESCO World Heritage site. The famous project is famousserusolcne rieht retfa depacts sadnap xis [76]. I ekauqhtrae eht retfa )sruoh 6, syad 4( sruoh 201 sniur eht ni evila dnuof saw lrig a .ekauqhtrae eht retfa nauhcieb ni gnidliub knab a ]95[. esiwrehto degamad ylereves ton tub dekcarc saw htuomElpoep 000,0 tuoba fos , Morf Srovivrus 003,2 ylno Detroper Maet Eucser Eno ]08[.Sdaor Riaper Ot Deirt Yeht The Sedilsdnal by Dellik Erew Ohw Serkrow Feiler Ekaughtrae 81; ecnivorp nauhciS ni 636,86 gnidulcni shtaed nwonk 081,96 desuac ekaug eht, slaiciffo etats esenihC ot gnidroccA 081,96 latoT 1 nanuH 1 iebuH 1 uohziuG 2 naneH 81 gniqgnohC 221 ixnaahS 563 usnaG 636,86 latoT 1 na' GNAUG 1 uohzul 2 gnogiz Nahsgnail 4 UOHZAD 7 GNAIJIEN 8 NAHSEL 9 ⪠aree 01 gnohzab 51 nahssiem 62 gnagne 6 67[852,02 call ]57[369,12 gnaynaim nauhcis ]21[shtaed ]47[ecnivorp seitlausac ]37[ ni .yawlips hguorht erusserp eht esaeler ot gniyrt ,upnnipiz ot detacolla neeb evah sport 000,2 tuoba .Espalloc fo regnad of maertspur riovreser gnoards sinlarus elbas e elbats egamad eht taht detacidni noitcepsni tnecer A .degamad saw retnecipe eht fo tsae )im Â21( sertemolik 02 detacol tnalP rewopordyH upgnipiZ ehT .ertnec gnideerb eht edistuo reh deirub dna etarc nedoow llams a ni sniamer reh decalp srekrow rehto dna srepeek adnaP .erusolcne REH NOT A YB dehsurc ydob reh ]17[,9 enuj no derevocsid saw ,retnec gnideerb eht because evidence is ,oam oam dlo-raey-enin ]0 Eht ]96[ .deck ot dah gel tfel reH .deucser gnieb erofeb sruoh 82 rof deppart saw ehS .ekauqhtrae eht gnirud gnidliub yrotimrod loohcs a ni saw iemeuX gnaT ]78[.rebmun seitlausac a hcus dehsilbup eh retfa deniated saw naT .enoz ekauq eht ni detagitsevni naT sloohcs 46 Eht ytiC gnaynaiM nI .noitcurtsnoc yddohs ot eud deid nerdlihc loohcs fo sdnasuoht, seitlausac loohcs fo smret nI ] 58[.Dias eh ",meht ot tnemtaert lacidem gnidivorp rof rof Elbisnopser Eb dluohs tnemnrevo eht" :Eunrusni on ro elttil evah mohw fo ye t ]58[.Tineiciffusni ni anihc ni me Metasys Erac htlaeh Cilbup" eht taht taht gnijieb ni sretroper dlot dellik saw dlo-raey-65 a ]28[. Eht .Diortsed Erew Sgnidliub EHT FO %08 DNA Derujni Der been the subject of non-governmental investigations since December 2008 by volunteers including the artist and architect Ai Weiwei, who had constantly published updates on his blog since March 2009. [90] The official count of students killed in the earthquake was not released until May 7, 2009, almost a year after the earthquake. According to the number. [94] Following the earthquake, the Chinese government declared that parents who had lost their children would get free treatment from fertility clinics to reverse vasectomies and piping bonds conducted by family planning authorities. number could be as high as 11 million. [96] Millions of animals were destroyed and a significant amount of agriculture, including 12.5 million people. [97] The catastrophe modeling company AIR Worldwide reported official estimates of insurance losses to \$1 billion from the earthquake; estimated total damage exceeded \$20 billion. Chengdu values, currently with an urban population of 4.5 million irotatteps irotatteps id oppurg nu ,iuQ .otomerret li opod anoz al onavasseretni ehc imelborp itlom i art are aiggoip aL ]89[ .enoizarucissa ad atrepoc etrap aloccip anu olos noc ,irallod id idrailim 511 acric a ,enosrep 8.5(  $\hat{a}$   $\hat{a}$   $\hat{e}$   $\hat{a}$   $\hat{e}$   $\hat{a}$   $\hat{e}$   $\hat{a}$   $\hat{e}$   $\hat{e}$  Gnidrocca Smâ ã,4.6 (Wmâ ã,0.6 fo kcohsretfa na ,52 yam no .ekauq niam eht retfa shtnom stetal stetal s. Etiuq erew ylbamuserserp sgnidliub fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam ylbamuserserp sgnidliub eht fo ynam tub .seussi ngised effect dna seussi ekauqhtrae Fo ekat hcihw ,Sedliub grev erev era ]sirk ] Erew sgnidliub eht fo ynam ylbamuserserp sgnidliub eht fo ynam yl Derrucco ekaughtrae eh t": dias ygolonhceT fo etutitsnI ainrofilaC eht ta scisyhpoeg dna gnireenigne livic fo rosseforp tnatsissa, nanhsirK nahtanimawS. tih tsedrah erew segalliv larur, reroop eht taht etacidni stroper sweN [001]. ekaughtrae eht dnatshtiw ot deliaf snoitcurtsnoc ynam yhw snosaer fo yteirav a wohs sgnidnif riehT. sgnidliub degamad fo yevrus yranimilerp deliated a ekam ot noiger eht ot dehctapsid saw sreenigne fo maet ecnassiannocer lanoitanretni na ,retsasid eht gniwollof syad eht nI ]99[".secrof ekaughtrae etaugeda rof tliub t'nerew yeht era secnahc ,ekaughtrae taugeda rof tliub t'nerew yeht era secnahc ,ekaughtrae etaugeda rof tliub t'n retfa litnu edoc ngised cimsies etaugeda na etaerc ton did anihC esuaceb saw aera ekaughtrae eht ni sesuoh dna seitreporp fo egamad evissam eht taht tuo detniop, hceT aigroeG ta Gnireenigne latemnorivne dna livic fo ROSSEFORP, sehcorsed dlaniger .niar eht ni Gnidliub accession a 5.5 MW, respectively, according to USGS) on July 23, with consequent 1 death, 6 seriously injured, the collapse of hundreds of harmful houses and kilometers of motorways. [103] [104] County of Pingwu and County of 6.1 ms (6.2 MW according to USGS) hit Qingchuan, Sichuan, causing 1 death, 32 injured, telecommunication interruptions, and hill slides very widespread by blocking roads in the area including a national road. [108] Vice-government Wei Hong confirmed on November 21, 2008, who more than 90,000 people in total had died or missing in the billion dollars for rescue and reconstruction efforts. [109] [110] The persistent rain, as well as rocky slides and a layer of mud covering on the main roads, such as the one above, hindered the efforts of the rescue officials to enter the destination region. Secretary General and President Hu Jintao announced that the response to the disaster would be quick. [111] Just 90 minutes after the earthquake, Prime Minister Wen Jiabao, who has an academic background in Geomechanics, flew to the earthquake area to supervise the rescue work. [112] Shortly thereafter, the Ministry of Health said he sent ten emergency medical teams to Wenchuan County. The same day, the military of Chengdu led amelborp led asuac a odomocs etnemlautta are" )oiggam 31 li( ehc otamreffa ah anihC ecorC alled assoR al, aivattuT. ¬Adelocrem Aig nauhciS ni oiggatavlas id erdauqs etloM ]021[ .nauhcneW id aetnoc allen aiggaiV rep eratilim otropsart id ierea eud ni oiggam 21 led enif alla nauynaN id otroporea'llad onihceP otaicsal onnah )atamra aizilop alled elareneg eladepso'lled 22 e onihceP id eratilim aera'lled odnamoc led 051, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anU ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anu ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anu ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anu ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anu ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anu ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anu ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme id oivargs id ardauqs anu ]911[ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme) [911][ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme) [912][ oiggam 21, elatats ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme) [913][ oiggam 21, elatats ocigolomsis ocigolomsis oiciffU'lled enosrep 21 ad atsopmoc (enosrep 481 id otomerret led aznegreme) [913][ oiggam 21, elatats ocigolomsis ocigol I ollevil la otilas "A onaip II .ilarutan ifortsatac id evarg 'Aip essalc al erpoc ehc ," aznegreme id onaiP II leveL" a detaitini noissimmoC feileR retsasiD lanoitaN ehT ]811[]711[ ]611[".derettam etunim yreve dna yrnosam delppot rednu deirub erew sdnasuoht nehw ,sruoh 27 tsrif eht ni sevil evas ot deraperpnu erew spoort eht" detroper jâ "¬Â »Â¤Ã  $^2$ ¤Ã, ¬Â»Â  $^2$   $^2$ ¤Ã, ¬Â»Â  $^3$ à  $^3$ 6 irei "Ã "Â,  $^2$ ¤Ã â irei "à "Â,  $^2$ ¤Ã â irei "à "Â,  $^2$ ¤Ã â irei "à "Â,  $^2$ AeseniC( .ortned ¬Ãl eranimmac acifingis  $^2$ Aic es ehcnA !eraf asoc eredev et ad ednepiD .otuicserc onnah it ehc enosrep el onoS" :odnecid olopop led enoizarebil id oticrese'l otanidro ah neW reimerP II ]411[ .aicnivorp alled ilarur inoiger ellen otuia erenetto eliciffid otlom otavort onnah itadlos i ,amsis led ortnecipe'lled aznaniciv atterts alled e otatnedicca onerret led asuac a ,aivattuT |311| .nauhcneW id aetnoc allen ortsasid ni osroccos id iroval i noc eratuia rep atamra aizilop e eppurt 000.05 otaivni ah odnamoc II For the most affected areas closest to the epicenter ". |121 | Tho company of the Red Cross of China has also declared that the disaster has also declared that the disaster the areas require curtains, medical supplies, drinking water and food; however it is recommended 71:21 el ortne [721]. acric 03:32 ella nauhcneW id edes al oresnuiggar ehcitsireinoip eppurt 003 e ortnecipe'l oresnuiggar irotirroccos 003.1 I ]621[ .araihc ocop esamir )000.9 acric (itnatiba irtla ilged otats ol ertnem, itussivvarpos 000.3 acric itavort onoruf ehc ,nauhcneW ,uixgniY id Attic allad otirefir etnadnamoc nU ]521[ .etiploc etnemetrof eera ellen oiggatavlas id azrof alla itinu onare is udgnehC id eratilim enoiger alled itsivresir e eppurt 006.51 ertlo id elatot nu ,oiggam 31 li TSC 73:71 ella .etiploc eera elled enoizingocir alled e etiref elled enoizaucave'l ehcna e ,aznegreme id ituia e auqca ,obic id angesnoc al rep itareihcs itats onos irettocile 02 ,oiggatavlas id inoizarepo elled oizini'llA ]421[ .oiggatavlas id izrofs ilg etnemevarg etiploc aera aniciv allen e nauhcneW id aetnoc allen itnetsisrep itnasep enarf e evoiP .angatnom al erasrevartta id onavatnet ertnem irotirroccos ied issergorp i otalocatso onnah ,olociev otseuq us itarretta onos ehc otteggo'l emoc ,onodac ehc itirted I ]?elibadiffani etnoF[ ] li ehc amirp augca e obic aznes inroig eugnic rep otilomed oiggalliv orol len itaccolb onoruf inatebit itnatiba 003 ertlo e orettocile'lled enoizaucave'lled osu'l onavedulcerp onerret led emertse inoizidnoc eL .uwgniP id aetnoc allen eram led ollevil lus M & A0004 id tleh reh & A0004 id azzetla'nu da reiS id onatebit etnemacinte oiggalliv li eregnuiggar id onavacrec ertnem, oayneW gnaY etnadnamoc li ottos atazzirotom airetnaf id atagirb anu ad osroccos id ilairetam id qk 04 acric noc onucsaic, inimou 08 id oiggatavlas e acrecir id oppurg nu id ossergorp li otaiccanim etnemaunitnoc onnah enarf eL [221] enarf ellad itaccolb ihquul o etaiggennad etnematelpmoc edarts eregnuiggar elibissop are non ©Âhciop ,ilocitra irtla id ecevni itnatnoc etatudacarap e icrattepsa omaissop non" ehc elat are ortsasid led alacs al ehc otnuigga ah aM. ¬Adetram onihceP a "etneiciffe otlom e tfiws" emoc esenic oiggatavlas id ozrofs ol otaiggelon olov nu us iepiaT ad eritrap id ammargorp ni ehcna are nawiaT id assoR ecorC alled osroccos id maet nU [431]. TSC 03:02 el ortne udgnehC a otavirra "A e oiggam 51, TSC 00:71 ella iepiaT otitrap "A otaiggelon olov li e, otacrec otats "A amrefarret alled isenic Atirotua ellad enoizavorppA. etiploc eera ella nawiaT id assoR ecorC id AteicoS allad e ihC uzT enoizadnoF [131] .osroccos id ozrofs olla isrinu rep eseniC eralopoP acilbbupeR alled onretse'llad azrof amirp al atats "A ihC uzT .31 oiggam enif a nawiaT ad ihC uzT enoizarebiL id oticresE'lled airots allen oerea otropsart id atabmoc-non enoizarepo eroiggam etneugesnoc noc .051 ertlo a elivic enoizaiva'lled e oticrese'lled, eerea ezrof elled etrap ad osroccos id inoizarepo ni itareihcs ierea id elatot oremun li odnatrop, elivic enoizaiva'lled airtsudni'llad itinrof eresse onavevod 03 e, FAALP lad itinrof eresse onavevod 03 e, FAALP lad itinrof eresse onavevod 06 iuc id, irettocile 09 irtla id enoizatnemelpmi'l 2Ânidro oabaiJ neW reimerP li, oiggam 51 li ortnE .ero 05 ertlo rep ataloppartni atats eresse opod allerab anu us atsop e atavlas atats "A anaizna annod atseuQ ]921[.nauhcneW id tse-dron a, oaM id aetnoC alled alled amirp inroig 01 eseap leuq otatsaved ah ehc, sigraN enolcyC a ainamriB alled aterges atsopsir al noc olodnatsartnoc, "areittacni arutrepa noc e etnemadipar" ortsasid la otigaer ah aniC al ehc otaton ah atsimonoce'L I'm not going to do that I'm he also came from Iet Li's One Foundation who saw the actor of martial arts Wu ling assist in efforts, [148] In the village of Tuanshan, Longmenshan city, Pengzhou, the fort pig was saved by suffering only skin trauma after being buried under the rubble for 36 days. The pig had survived rainwater and coal, but lost 100 kg from its original weight of 150 kg. The Jianchuan museum bought the pig a new house in the museum premises. The swine became famous at national level as "delighted the spirit of never surrender." [149][151] "Quick Lakes" As a result of the earthquake and the many strong outbreaks, many rivers were blocked by great lands, [152][153] which led to the formation of "water lakes" behind the blocks; These huge amounts of water were accumulating at a very high rate behind natural landslides and it was feared that the blocks would eventually crumble under the weight of the growing mass people 4. As of May 27, 2008, 34 lakes had formed because of earthquake debris that blocked and flooded rivers, and it is estimated that 28 of them were still potentially dangerous to local people. Entire villages had to be evacuated due to the consequent flooding. [155] The most precarious of these quake-lake was the one located in the extremely difficult terrain at Mount Tangjia in Beichuan County, Sichuan, accessible only on foot or in the air; a Mi-26T heavy lift helicopter belonging to the China Flying Dragon Special Aviation Company was used to bring heavy tractors earth movement to the affected location. [156] This operation was coupled with the work carried out by PLAAF Mi-17 helicopters carrying PLA engineering, explosive specialists and other personnel to join 1,200 soldiers who arrived in the PLA engineering body.on foot. five tons of fuel to operate the machinery has been raised in the air; oren e ocnaib ni egap emoh orol al otitrevnoc onnah bew itis itlom ]231[ .otomerret li opod ¬Ãdelocrem li ixgnai, nijiuR id Ãttic allen ataizini "à avisseccus abmag al odnauq oiznelis id otunim nu are'c e "otanoisnemidir otats "A eseap li osrevartta aicrot alled osrocrep II ]061 [.ottul id odoirep led atarud al rep osepsos otats ebberas "elanoizan ottul li etnarud obgniN id erotazzinagrO otatimoC II .opod )!nauhciS ("uoyaij nauhciS" e )!aniC omaidnA("!uoyaij ouggnohZ" airgella'llen etnemaenatnops epmorri is etneg aL ]951[. onoramref is onihceP id edarts ellus noimac i e otua el ehcnA. onavanous inert e ivan ilociev id anroc el e ,ocouf id eneris el e aizilop al ,aerea asefid al ertnem itunim ert rep oiznelis ni esamir etneg aL .oiznelis id otnemom nu otunet ah esenic ocilbbup li ,otomerret li opod anamittes anu ,8002 oiggam 91 li TSC 82:41 ellA [851]. qnodeZ oaM id etrom all essof non ehc asoclaug rep otaraihcid otats are elanoizan ottul id odoirep nu ehc atlov amirp al uF. orebla Åtem a onoralov ilaicepS evitartsinimmA inoigeR uacaM e gnoK gnoH id ilanoigeR ereidnaB el e CPR alled elanoizaN areidnaB al; 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otomerret led emittiv el rep elanoizan ottul id inroig ert id odoirep nu otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid ah otatS id oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam 91 lad eritrap a otaraihcid al oilgisnoC II. 8002 oiggam noc ,onihceP ,nemnanaiT azzaiP a otomerret led emittiv el rep otnaip ah etneg al ,8002 oiggam 91 li ilanoizan inoizaeR ]751[.aippocs ehc agid alled enoisiverp ni onguig o1 li ortne gnaynaiM ad etaucave etats onos enosrep 000.002 id ¹Ãip ,ellav A .ataniforts auqca'lled orucis ociracs ol eritnesnoc rep eciuls anu atiurtsoc atats "à evod And Sohu, the demeht ylralims that ,Emas emas , EHT FO.)noillimâ ã,802\$su~( nayuy esenihc noillibâ ã,802\$su~( nayuy esenihc noillibâ ã,5.1 dellot gnineve eht fo snoodod ]361[. Dednetta saw of .gnosnay iaab rohcna egarevoc kcolc-eht-dnuor dna alag s'raey yes VTCC EHT MORGUGER YB DETSOH ,)â»â â§âââÄMãÂúéââââ ¦ :Esenihc Lanoitart ;îœîœâ‰â¥ã¥â,,âšã°#´¢´ç :Esenihc deipilpmis( Evolg 1t deoh-vs 1t deivig 1t deipilpmis yam Fo gnineve eht if ]dedeen noitita[.dedepsus se mmargorp rieht dah )V lennahC sa hcus( slennahc noisivelet yap nevE .ekauq eht retfa syad elpitlum rof 1-VTCC morf egatoof ekauqhtrae evil htiw semmargorp deludehcs-ylraluger lla dellecnac )seitinummoc etairtapxe dna gnoK gnoH ni snoitats emos htiw gnola( snoitats emos htiw gnola( snoitats emos htiw gnola (snoitats emos htim dah ro ,rehtegotla nwod tuhs dah ,tfarcraW fo dlroW rof srevres esenihC eht sa hcus ,setis gnimag suoirav gnidulcni ,setisbew tnemniatretne rehto .stroffe feiler eht dna ekaughtrae eht tuoba sda rennab devalpsid osla ,moc.nsm.nc ,sm Fo noisrev Eht .Stroper Swen dna Egatoof Ekaughtrae Gniwohs Soediv elpitum decalp dna dnuorgkcab kcalb a diyalpsis dna ukuoy setisbeww An 8 -hour fundraising marathon was held on June 1st in Hong Kong; It was attended by about 200 musicians and celebrities of Sinosphere. In Singapore, MediaCorp Channel 8 hosted a 'live' program is ® © æ<sup>23</sup>å····'•' •'è è ‡ '' è ‡ '` å £ to raise funds for the victims. The fall of school houses after the 2008 earthquake, some parents helped schools preparing and cooking lunches for students. Main article: Sichuan Scandal this kindergarten was among the many schools in the disaster region that suffered heavy structural damage. Although the Chinese government was initially praised [167] [168] for its response to the earthquake (especially compared to the blocking of aid of the dominant military junta of Myanmar during the cyclone Nargis), then saw a erosion in trust in the school construction scandal. [169] [170] The central government estimates that over 7,000 non-engineered school rooms collapsed in the earthquake. Since then Chinese citizens have invented a capture phrase: "Tofu-Rregs Schoolhouses" (Chinese: it is ± † is ... æ, £ å £ £), to affect both the quality and the quantity of these lower buildings and They killed so many child when the schools in the region collapsed during the earthquake. As a result, Sichuan provincial and local officials raised the restriction for families whose only child was killed or seriously injured in the disaster. [172] The so -called "illegal children" under 18 years of Etã can be recorded as legal substitutions for their dead brothers; If the dead child was illegal, further exceptional bets would be applied. On May 29, 2008, government officials began to control the ruins of thousands of schools that collapsed, looking for clues ilacol iranoiznuf otasucca onnah aicnivorp al attut ni irotineg id aiailgiM ]371[ .italoicirbs onos is ©Ahcrep Cutting angles manufacturers in the construction of the school, citing that after the earthquake other nearby buildings were not very damaged. [173] In the aftermath of the earthquake, many local governments promised to formally investigate the collapse of the school, but starting from 17 July 2008, through Sichuan, the parents of children lost in the collapsed schools still complained of receiving relationships. [174] Local officials urged them not to protest, but the parents showed and requested an investigation. In addition, the censors discouraged stories of schools scarcely built that they were published in the media and there was an accident in which the police removed the protesters [175] [176]. In China Digital Times an article reports a close analysis by an alleged Chinese construction engineer known online as "Book Blade" (\(\text{a}\)î \(\text{w}\) o'\(\text{a}\)) who said:." Due to the particular education brand of our nation, our children are fueled 20 years of Marxist philosophy with Chinese characteristics - a philosophy that has nothing to say about saving lives ... The construction of the school is the worst. First, there is no capital enough. Schools in poor areas have small budgets and, unlike schools in the city, they cannot collect enormous fees, therefore they are pressed for money. With the construction, adding government officials, education large companies, etc. will evaluate And they will strengthen their 50 -year -old buildings suffer from inadequate protection while the new buildings have been built ,osroccos id irtnec ni etnemlapicnirp onaveviv ehc itussivvarpos inibmab I .ilgif orol i rep eregnaip rep eloucs elled eirecam ella itadna onos irotineg itlom ,8002 onguig 1 ,itussivvarpos inibmab ied onroiG nI itrepse ilG .ilarur eera ellen eidem e eiramirp eloucs el rep enoizurtsoc id dradnats ilg eraroilgim reP otnemadneme nu ottader aveva ehc oiggam 72 li otaraihcid ah amrofir al e oppulivs ol rep elanoizan enoissimmoC al, engapmac ellen enoizurtsoc id icidoc ied azzelobed alled otnemicsonocir nu nI .illorc ius eragadni id otaraihcid onnah nauhciS e onihceP id ivitanrevog iranoiznuf i" ehc otirefir ah semiT kroY weN lI ]081[ .osrocs esem led otomerret li opod aniC al attut id eloucs ellen itautteffe eresse onavevod azzerucis id illortnoc i ehc otirefir ehcna otats A 1971[ .elanoisseforp enimirc lus inigadni ilibissop a israraperp e iranimilerp inigadni eraicnal ,etallorc eloucs ellen inoizurtsoc elled Atilauq allen onam amirp id elairetam erenetto rep oiggam id otomerret etnatsaved li etnarud etallorc eloucs iceid us elaiciffu enigadni'nu a otireda onnah isenic iretsinim icilbbup I , iggo da onif ,ehc onquig a otirefir ah sretueR, aivattuT [871]. "itaiccanim e ituneted itats onos Atirotua el enoissucsid ni ossem onnah ehc iratnolov e irotineG adnagaporp id oiciffU'lled inoizurtsi elled isnes ia etnemetnerappa, enoitseug al otarongi etnemaipma onnah otats ollad itallortnoc aidem i ehc otirefir ah PA'L [171] otnemec ni itnemivap ious i eritnarag a ertlo, aloucs aus alled inaip i orttaug e ittut id enoclab id areihgnir al e otnemec id irtsalip i erazroffar e erailpma rep otasu oraned, aetnoc alled enoisiver etnatropmi'nu otanoisivrepus ah ,7002 len osulcnoc "Ã is ehc inna ert id odoirep nu etnaruD ]171[ .otomerret li otunevva "A odnauq itneserp innula 323.2 i ittut id ativ al otaimrapsir ah ehc avittaorp enoiza'nu atiubirtta atats "A ,aetnoc anu ni idnarg 'Aip elled anu ,oazgnaS id loohcS elddiM oazgnaS id loohcS elddiM oazgnaS id loohcS elddiM oazgnaS id loohcS elddiM oazgnaS in ittut id ativ al otaimrapsir ah ehc avittaorp enoiza'nu atiubirtta atats "A ,aetnoc anu ni idnarg 'Aip elled anu ,oazgnaS id loohcS elddiM oazgnaS id loohcS e ilg avecafsiddos es otallortnoc onnah non enoisivrepus id eiznega el" ehc odnecid olocitra'llen otatic otats "Ã elacol nU .orebbervod otnauq id inottam onem odnasu e ;ottut led non es ,eroirefni odarg id otnemec odnasu e;ottut led non es ,eroirefni odarg id otnemec odnasu;otnemec ni ecnamrofnier li rep ilittos orref id ilif noc oiaicca id etsa el odneutitsos ilogna ilg onailgat irotturtsoc i ©Ãhcrep "ufot led icifide" itamaihc etnemenumoc onos etnedacs odom ni itiurtsoc icifide ilg ehc otirefir ah moc.liamdnAebolG id kroY yreffoeG, 8002 oiggam 51 lI ]481[ââ ]381[ .oroval id opmac led irouf id la annadnoc aus al eratnocs rep otaicsalir otats "Ã uiL ,aniC ni sthgiR namuH enoizazzinagro'l odnoceS .)LTR( oroval li osrevartta enoizacudeir id onna nu erivres id

otanidro uf ilG .aidem i noc atsivretni'nu ni )¹â "Âṣà ¥Â ·Â Œ A callorc icitsalocs icifide id otof otattacs ,gnafihS ol osrev otaiggaiv aveva uiL .enoisrevvos alled otnematicni id enimirc led asucca'l noc otagadni otats are ehc otted otiuges ni uf uiL id ailgimaf aL .nauhciS led otomerret lus "elaicos enidro'l ereggurtsid e icov erednoffid" rep ,8002 onguig 52 li otatserra otats "Ã, nauhciS led aloucs id etnangesni nu ,)¤Â à ~ ËÃ( nukoahS uiL ,irotineg ia ertlO ]281[ .aloucs alled illorc ius erirefir id erettems id isenic aidem ia otanidro onnah iranoiznuf i e ;eloucs ella onrotni inodroc

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[186] foreign and e e e aid aid Main article: Reactions to the 2008 Sichuan earthquake Because of the magnitude of the guake, and the media attention on China, foreign nations amd organizations immediately responded to the disaster by offering condolences and assistance. On May 14, UNICEF reported that China formally requested the support of the international community to respond to the needs of affected families.[187] Mainland China By May 14, the Ministry of Civil Affairs stated that 10.7Ã billion yuan (approximately US\$1.5Ã billion) had been donated by the Chinese public. Houston Rockets center Yao Ming, one of the country's most popular sports icons, gave \$214,000 and \$71,000 to the Red Cross Society of China. The association has also collected a total of \$26Å million in donations.[188] The Red Cross Society of China flew 557 tents and 2,500 quilts valued at 788,000 yuan (US\$113,000) to Wenchuan County. The Amity Foundation already began relief work in the region and has earmarked US\$143,000 for disaster relief.[190] The Sichuan Ministry of Civil Affairs said that they have provided 30,000 tents for those left homeless.[23] Central State-owned enterprises have accumulatively donated more than \$48.6 million. China National Petroleum Corp and Sinopec donated 10 million yuan each to the disaster area.[191] Following the earthquake, donations were made by people from all over mainland China, with booths set up in schools, at banks, and around gas stations.[192] People also donated through text messaging on mobile phones to accounts set up by China Unicom and China Mobile[194] By May 16, the Chinese government had allocated a total of \$772Ã million for earthquake relief so far, up sharply from \$159Ã million from May 14.[195] On May 16 China stated it S snoitazinagro lanoitanretni ruof dna seirtnuoc Â91 morf noillim Â38\$ gnidulcni,raf os stroffe eucser rof sdoog dnaom yen detanod ni noillim Â754\$ deviecer oslal ecnerrucco s'ekauqhtrae eht detciderp gnivah sa dedrager eb dluoc taht gnihtyna ees ton did osla eh taht rutnegA-esserP ehcstued dlot ailartsua ni ytisrevinu hsanom fo nosbig yrag tsigolomsies ]302[ Js'gneG .gneG id oroval li rep esseretni reva id otirefir aveva ialnE uohZ reimerP li ;itomerret e Ãticcis id aznegrosni'l art enoizalerroc anu erilibats id otatnet ognul a aveva gneG ".eredeverp "Å elicaf ¹Ãip li" ehc otuderc ah ,acifitneics Atinumoc allad acitamelborp ataredisnoc etnemaipma atats "Å elaiznedifnoc ottircs otroppar nu ehc otunetsos ah gneG iuc ni ,)½åºå¿è( ouggniQ gneG esenic elausses oiciffU'l osserp erotacrecir xe'l noc atsivretni'nu ottodnoc ah nakuohZ uohzaY ]902[]802[]702[.otomerret led asuac al etnemroiretlu eranimase rep icigoloeg e icimsis itad ia ossecca'l itagen itats onos irotacrecir I .avitta etnemacitsis aera'nu ni alacs agral us agid id ittegorp itnat ¬Ãsoc us itnemitrevva ilg otarucsart aveva onrevog Il. ocinottet otnemiyom lad elarutan sserts id anep al elav onna nu id "¹Ãjp id etlov 52" otats "à otteffe'L atneloiv aruttor anu odnasuac .osse id us atterid enoisserp al eratnemua otutop ebberva e .isranatnolla id orol odnettemrep .aploc alled itrap eud el art enoisnet al erassalir otutop ebberva enoiger allen augca id Atitnauq emrone'nu id otnematsops osivvorpmi'l ehc otted ah nauhciS id elareniM oiciffU'lled e aigoloeG alled erengegni opac II ]602[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li e enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nU ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li e enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nU ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li e enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nU ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nU ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nU ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nU ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nU ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nu ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li enoizurtsoc al ehc ¬Areggus azneicS ni olocitra nu ]502[.otomerret li otacsenni reva essetop upgnipiZ agid alled otnemipmeir li enoizurtsoc alled otnemipmeir li al ehc anoiznem non e ,otomerret led enoisiverp id illedom ied enoisiverp id illedom ied enoisiverp anu noc nauhciS 8002 led otomerret led enoisiverp anu noc nauhciS 8002 led otomerret led enoisiverp anu noc nauhciS atloccar al osrevartta "enoisiverp anu noc nauhciS atloccar al osrevarta "enoisiverp anu noc nauhciS atloccar id odotem The correlation theory was first published in 1972 and was said to have predicted the earthquake forecasting. 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External links 2008 Sichuan earthquake at Wikipedia's sister projects Definitions from Wikipedia's rom Wikipedia's sister projects Definitions from Wikipedia's sister projects Defini people and the reconstruction from the 2008 Wenchuan earthquake in China Lake Formation in the aftermath of the 7.9 magnitude earthquake (images included) m 7.9 m avelop â € œSichuan oretni esenic otomerret - NNC alled otomerret la ovitaleR oediv CBB alled oediv ied noitalipmoC evihcrA evihcrA evihcrA id otoF serutciP ekaughtraE nauhciS SGSU - aniC "9805535901=didlo&ekaughtrae nauhciS 8002=eltit?php.xedni/w/gro.aidepikiw.ne//:sptth )NE( ^ "980553590 anu ah elanoizanretnI ocimsiS ortneC lI semiT latigiD anihC â euS stnneG âsmitciV ekauQ anihC dnalaeZ weN yrotsiH larutaN ad ottodorp oiratnemucod "ekauQ anihC" oivihcrA

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