

## TABLES

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**Table 1: Earthquake precursors occurring several hours or days before earthquakes are thought to be electromagnetic phenomena**

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|                       |  |
|-----------------------|--|
| Sky and atmosphere:   | Earthquake light, cloud or fog; yellow sky, short rainbows, haloed sun, elongated or red moon.   |
| Animals               | Run from the epicenter area, become unusually excitable, come out of hibernation,<br>Face the same way, panic, literally die of shock. |
| Plants                | Bloom unseasonally, wither and die, sway in still conditions, close their leaves.  |
| Electric appliances   | Malfunction, spontaneously switch off and on, make strange sounds  |
| Land and sea          | EM currents in the earth, rumbling in the earth, higher sea level  |
| Well/hot spring water | Turbid, changes of level/temperature/radon concentration   |

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**Table 2: Malfunctioning home electric appliances before earthquakes**

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| <b>Appliance</b>  | <b>Behavior</b>   |
|-------------------|---|
| Car navigators    | Fluctuation of the pointer arrow.   |
| Clocks (quartz)   | Stopping or sudden movements of the second hand.<br>Fast forward and backward movement or delayed movement.   |
| Fluorescent lamps | Dimming of light as during thunderstorms.   |
| Intercoms         | Spontaneous buzzing sounds, or not functioning.   |
| Mobile phones     | Ringling & light but no record of caller.<br>Do not function, make odd sounds.  |
| Radio (AM)        | Spontaneous switching and loud sounds, pulsed noise.  |
| Refrigerators     | Strange compressor noises.  |
| TVs               | Spontaneous switching, speckling and flicker.<br>Barber-pole color, lines, image distortion, white bands, loss of color, reversion to black and white, channel fluctuations |

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**Table 3: Reported unusual animal behavior before earthquakes**

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|------------------------|--|
| <b><u>Mammals</u></b>  | Nervous, restless, irritated, panic and “acting crazy”.  |
| Human                  | Headache, nausea, urge to vomit, giddiness, dizziness, heart complaints, nervous disorders, hysteria, bad weather symptoms.  |
| Dogs                   | Bark loudly, whine a lot, anxious. Act as if tracking an unseen enemy; panic and bite owners, bark and pull owners outside, howl endlessly.  |
| Cats                   | Restless, meow pathetically, take kittens outside, climb high trees, twitch ears, lay ears back, leave home for days, disappear.   |
| Rats                   | Disappear, fuss, panic, run along wires.   |
| Horses                 | Stamp, snort, tremble, jump, buck, fall to the ground.   |
| Cows                   | Bellow, crowd together, run away in panic.   |
| Pigs                   | Aggressively bite each other, dig under fences, attempt to climb walls.  |
| Deer                   | Leave bush and forest, do not fear humans, run to humans, run aimlessly.   |
| Rabbits                | Jump and run around.   |
| Sea lions              | Swim in zigzags, act agitatedly, fuss when out of the water, do not eat food.  |
| Dolphins               | Nervous, do not obey orders, leap out of the water.  |
| Bats                   | Fly in the daytime.  |
| <b><u>Birds</u></b>    | Stop singing, become excited, flock restlessly, cry weirdly, some die.   |
| Chickens               | Flap wings, shriek as if in terror, fly, fly to roofs. Cocks crow at mid night.  |
| Hens                   | Lay no eggs, or fewer eggs.  |
| Ducks                  | Avoid entering water, cry, act aggressively, bite humans.  |
| Sparrows               | Flutter in swarms, flutter down while flying, no twittering.   |
| Seagulls               | Fly inland, mew in sky, stay away from the sea.  |
| Parakeets              | High pitched chirping, flutter wings, fly at night, stay on fence, die.  |
| <b><u>Reptiles</u></b> | Come out of hibernation.   |
| Crocodiles             | Call, leave the water for land or leave cages for the forest.  |
| Snakes                 | Come out to the open in winter, swarm in bamboo clumps in summer.  |
| Turtles                | Wake from hibernation, climb on others apparently in panic, run.   |
| <b><u>Crabs</u></b>    | Leave wet habitats and crawl ashore, large numbers found dead.   |
| <b><u>Fish</u></b>     | Float and align in one direction, leap out of water, move violently, die. Turn upside down, act as if in turmoil, swarm, bigger fishing catches. Deep sea fish appear near surface, do not eat, sea fish swim up rivers. |
| <b><u>Eels</u></b>     | Crowd onshore, disappear.  |
| <b><u>Insects</u></b>  |  |
| Ants                   | Leave habitats carrying their eggs, swarm, enter houses.   |
| Bees                   | Evacuate hives in a frenzy, buzz agitatedly and sting aggressively .   |
| Cockroaches            | Swarm close to metal ware.   |
| Dragonflies            | Swarm and fly in one direction .   |
| Earthworms             | Come out of soil, congregate.  |
| Flies                  | Swarm and cling to sweaty skin, fly in circles, rotate themselves.   |
| Silkworms              | Unusual alignment.   |

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**Table 4: Plant anomalies before earthquakes**


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| <b>Blooming early</b>   |                    | <b>Behavior</b>                                    |
|-------------------------|--------------------|--|
| Potato                  | Two months         | Vines bloom.                                       |
| Apricot                 | Six weeks          | Trees bloom in winter.                             |
| <b>Early crops</b>      |                    |  |
| Rice                    | A few weeks before | Small plants, early crops, "bar-coding" on leaves. |
| <b>Unusual movement</b> |                    |  |
| Orchid                  | One day before     | Sways without wind.                                |
| Mimosa                  | At or just before  | Closes leaves and droops.                          |
| Tree leaves             | Just before        | Shake without wind.                                |

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**Table 5: Earthquake precursor phenomena in the sky and atmosphere**


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| <b>Phenomena in the sky</b> | <b>Preseismic (time)</b>   | <b>Coseismic</b>          |
|-----------------------------|----------------------------|---------------------------|
| Earthquake light (EQL)      | A day or a few hours       | Flash and arc just before |
| Earthquake fog (EQF)        | A few hours or just before | Sudden dense fog          |
| Earthquake cloud (EQC)      | A few days, 8 days         | A dragon cloud appears    |
| Yellow sky                  | A day                      | Becomes dark              |
| Short rainbows              | A few days                 | NA                        |
| Haloed sun                  | A day to a few hours       | NA                        |
| Elongated or red moon       | A day                      | NA                        |
| Stars appear close          | A day                      | .NA                       |

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