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# How to Predict Earthquakes by Using Simple and Reliable Method? Peru, Chile, Italy, Greece, New Zealand, Andaman and Nicobar Islands, India

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#### Abstract

This paper intended to highlight the simple, quick and reliable method to detect impending earthquake's location. Volcanic eruption precursors are originated only around the volcanos, like that the onshore earthquake precursors are originated only from earthquake epicenter zones. Epicenter zones are earthquake zones, a little variation of fault zone, it comprises movable tectonic plates. Due to the orbital motion of the earth, centrifugal force generated, this centrifugal force is the major driving force of tectonic plates. The position of the orbital motion of the earth generated seasonal variations/atmospheric weather anomalies as onshore earthquake precursors and earthquakes, year after year repeating at same places. The generation process of seasonal weather anomalies is the part of generation process of earthquakes at epicenter zones. Both seasonal weather anomalies and seismic anomalies are not continued all through the year at same places. When earth comes to particular position, tectonic plates of particular epicenter zones are set to more active and becomes unstable epicenter zones, causes identifiable, observable, recordable and testable onshore earthquake precursors 1-15 days prior to earthquakes occur.

**Keywords:** Orbital motion of the earth; Centrifugal force; Stable and unstable epicenter zones; Tectonic plates; Onshore precursors; Earthquake and earthquake prediction

## Introduction

Earthquakes killed over 923,000 people worldwide between 1900 and 2010 according to USGS. Greece has over 2500 years of earthquake investigation, Italy 1500 years and New Zealand over 600 years. Both deadly seasonal weather and earthquakes are Billion-dollar disasters [1]. Investigating about earthquakes and earthquake prediction studies are fascinating subject for both professional and non professional researchers. Earthquake prediction study over 120 years and the study of force move the tectonic plates over 40 years are still going on without any remarkable success. A large number of universities, research organizations, researchers and government agencies though actively involved in reliable earthquake prediction research but failed in their ultimate goal. In this empirical observational study, there over 250 epicenter zones and equal number of precursor areas have been identified worldwide. Scientists must need to understand the basic scientific knowledge about the generation process of onshore earthquake precursors and earthquakes [2,3].

# Unstable epicenter zones are generates onshore earthquake precursors and earthquakes

There are two types of earthquakes: tectonic and volcanic; there are two types earthquake prediction: deterministic with known precursors and statistical with unknown precursors; there are two periods of prediction range: short term and long term; there are two zones: fault zone and epicenter zone; there are two types of epicenter zones: stable and unstable; and there are two types of precursors seismically and non-seismically related and so on. In this empirically observational earthquake prediction study based, tectonic type, deterministic, short term and unstable epicenter zone concepts.

Epicenter zones are high hazard and high-risk areas of atmospheric weather and seismic activities. Every seismically risky nation has one or more number of epicenter zones. Stable epicenter zones are under less influence of centrifugal force, so tectonic plates are less active or seismically quiescence; unstable epicenter zones, those are under the strong influence of centrifugal force, tectonic plates are seismically more active.

All form of are atmospheric seasonal weather anomalies that originated from corresponding earthquake epicenter zones due to the position of the orbital motion of earth. Different form of weather anomalies occurred at different position of epicenter zones. For a seismic zone there are more than one epicenter zones can set to activate and more than one onshore earthquake precursors are noticed. Heat wave, rainfall associated with strong winds are the most common onshore earthquake precursors. Wildfires over lakhs of acres, deadly tornadoes, snowfall, snow storms and rainfall associated with dominant in one region, so all epicenter zones are not generated same onshore atmospheric anomalies. Each and every earthquake onshore precursor generated from a corresponding earthquake epicenter zone. Based on the previously observed and recorded data base catalogue, onshore earthquake precursors generated first and followed by earthquakes at localized epicenter zone. When seasonal weather changes are repeating every year at same places means then the seismic anomalies are also strongly related with seasonal variation.

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Table 1: Samples of rainfall location and earthquakes direction.



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## **Methodology**

## How to predict earthquakes?

With the help of daily rainfall/snow fall map, the star icons represent the amount of rainfall and snowfall and location in geological coordinates. In this empirical observational earthquake prediction study rainfall amount equal or greater than 50mm are used to predict of impending earthquakes magnitude 4-6+.

The essential features required to predict earthquakes are: the foremost important for earthquake prediction is Direction of epicenter zone and onshore earthquake precursor, location and time and magnitude frame.

• The direction from which onshore earthquake precursor (all form of atmospheric seasonal weather anomalies) originated would be the direction of earthquake epicenter zone.

• Onshore earthquake precursor (rainfall is the best) and its location is best to identify the impending earthquake location.

• Location: Equal or within 5° latitude and within 15°

longitude or 15° longitude and within 15° latitude from onshore earthquake precursor location. It varies from region to region.

• Distance from onshore earthquake precursors: usually within 15° Epicenter zone(s) are in permanent geological coordinates only precursor areas vary in exceptional cases.

• Time interval between onset of precursors and earthquakes: within 1-15 days, vary in exceptional cases.

• Magnitude: usually 4-6 also depend on the severity of the weather anomalies and site geological condition.

## Direction of future earthquake location

All form of atmospheric weather anomalies are the precursor to earthquakes. There are different form of weather anomalies at different location of epicenter zones. Every epicenter zone generated more than one atmospheric weather anomalies. Most common weather anomalies are heat, rainfall associated with strong winds. Among the all form of weather anomalies rainfall location best to identify the future earthquake location.

As generalized, all form of weather anomalies are generalized as onshore earthquake precursors (Table 1).

## Results

## Peru and Chile (Table 2)

### Peru:

Number of Islands: More than 25

**Number of seasonal variations:** Peru has two seasons as summer and winter, but as the rainy/wet season ('summer') which runs from December to March, and the dry season ('winter') which runs from May to September.

#### Number of Epicenter zones: 8

1) Northern Peru; 2) Near coast of Northern Peru; 3) Central Peru; 4) Near coast of Central Peru; 5) Southern Peru; 6) Near coast of Southern Peru; 7) Peru - Ecuador border; 8) Peru - Brazil border.

Direction of Earthquakes (Epicenter zones) to the west of rainfall (Table 2a and 2b).

## Chile:

Number of Islands: 5,000 rocky islands.

**Number of seasonal variations:** There are four seasons in most of the country: summer (December to February), autumn (March to May), winter (June to August), and spring (September to November).

### Number of Epicenter zones: 21

1) Tarapaca, chile; 2) Offshore Tarapaca, chile; 3) Off the coast of Tarapaca, Chile; 4) Antofagasta, Chile; 5) Coquimbo, Chile; 6) Offshore Coquimbo, Chile; 7) South coast of Coquimbo, Chile; 9) Valparaiso, Chile; 10) Offshore Valparaiso, Chile; 11) Region Metropolitana, Chile Offshore O'Higgins, Chile; 12) Libertador O'Higgins, Chile; 13) West Chile Rise; 14) Araucania, Chile; 15) Los Lagos, Chile; 16) Off coast of Antofagasta, Chile; 17) Atacama, Chile; 18) Maule, Chile; 19) Bio-Bio, Chile; 20) Magallanes, Chile; 21) Off coast of Aisen, Chile.

Direction of Earthquakes (Epicenter zones) occurs to the west of rainfall (Table 3 and 3a).

## **New Zealand**

## Number of Islands: 600

Number of seasonal variations: The rains are distributed throughout the year, with a dry summer season, in the months **Table 2**: Geological coordinates of Peru and Chile epicenter zones range.



Table 2a: Samples of rainfall followed by earthquakes in previous years in Peru.

Precursor (rainfall) Area	Area of Epicenter zones 06N-16S 70-80W
Ecuador	
0.01-0.06N to 02S 76 &79.36W	Northern Peru
Peru	04-06N 74-76W
05-08S 74-76W	
Ecuador	
00 55-02S 75 &78-79W	Near the coast of Northern Peru
Peru	05,08S 79-80W
03,05&08S 73-74 &76W	
Peru	
03-11S 66-73W	
Colombia	
04 10S 69 57W	Central Peru
Brazil	08-14S 73-76W
01-10S 45,55-56,58,61,67,69&72W	
Bolivia	
14S 66-67W	
Bolivia	
(11,13-19S 51,62,64-67E)	
Brazil	Near coast of Central Peru
(12-19S 46,52,56-58W	11-16S 73-77W
Peru	
(12-13S 69&71W	
Peru	
12-15S 69-70,74W	Southern Peru:
Bolivia	15-16S 70-72W
13-14S 63-68W	
Peru, Brazil & Bolivia	Near the coast of Southern Peru
13-16S 62,54-67W	15-16S 73-74W

between December and February. Snow: Snow typically appears during the months of June through to October, though cold snaps can occur outside these months.

#### Number of epicenter zones:

#### North Island of New Zealand: 6

1) Kermadec Islands, New Zealand; 2) South of Kermadec Islands, New Zealand; 3) Off E. coast of N. Island, NZ; 4) East of North Island, New Zealand; 5) North Island of New Zealand; 6) Cook strait, New Zealand.

#### South Island of New Zealand: 4

1) Canterbury; 2) South Island of New Zealand; 3) Off E. coast of S. Island, N.Z; 4) Off W. coast of S. Island, NZ.

Direction of Earthquakes (Epicenter zones) occurs to the East of rainfall (Table 4-4b).

## **Italy and Greece**

Epicenter zones area.

Italy: 36-46N 07-16E

Greece: 34-40N 20-40E (Figure 1).

Italy:

**Number of Islands:** The territory of Italy consists of the Appenine Penisula and roughly 450 islands. The country's biggest island, which at the same time constitutes its largest administrative region, is Sicily.

**Number of seasonal variations:** Officially spring is during the months of March, April and May in Italy. Summer is from June through to August. Autumn is during the months of September, October and November and winter is from December to February.

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Rainfall Location	Earthquake Location
Argentina	
22-23,26-2,29S 55,58-61,63,65W	Antofagasta, Chile
Paraguay	23-25S 67-69W
22-25S 49,54-57,60,63W	
Paraguay:23,25S 54,57W	
Argentina:27S 58W	Coquimbo, Chile
Brazil: 28-29S 55-57W	30-31S 71W
Uruguay:33S 55W	
Argentina Uruguay Paraguay & Brazil	Maule:35S 75-76W
(27-36S 52-64W/)	Offshore Maule, Chile:
(27-303-32-04W)	35-36S ; 72-73W
	Valparaiso, Chile:
Argentina	32-33S 70-71W
31,33-34S 68W	Maule, Chile:
	35.776°S, 71.253°W
Argentina	Offshore Valparaiso, Chile: 32-33S
36-37S 57 &61W	71-72W
Brazil , Argentina, Uruguay & Chile	Offshore Libertador O'Higgins, Chile:
(34-37S 54,56,59-60,,63,72,78W)	33-34S 71-72W
	Bio-Bio, Chile:
Argentina:35,38S 60,62W	37.617°S, 73.440°W
Chile:33,36S 70,72W	Offshore Bio-Bio, Chile:
	38.151°S, 73.730°W
Argentina:34,36S 57-58,64W	Southeast of Easter Island:
Chile:39S 73W	35-36S 98,100,103W
Argentina & Uruguay	Araucania, Chile:
(30-36S 54-59,63W)	38-39°S, 72-73°W
43,45S 71-74W	Off coast of Alsen, Chile
409.450.74.70\\	44-458 75-78W
42&435 / 1-/2VV	
(Argentina, Chile)	40-44S 81,87,91W
(Argonting)	
(Argenuna) Chile & Argentina	Drake passage:
	57 589 65 66W
Chile & Uruquay	J7-505 05-00W
62S 58-59W	
60S 11W	Scotia Sea
Argonting	60-61S, 31,41,45,47,51W
41,010 00-0900	

## Number of Epicenter zones: 6

1) Northern Italy; 2) Central Italy; 3) Sicily, Italy; 4) Southern Italy; 5) Adriatic Sea; 6) Tyrehenian sea.

Direction of Earthquakes (Epicenter zones) occurs to the South of rainfall (Table 5a-5c).

### Greece:

Number of Islands: There are 6,000 or so islands scattered around the Aegean and Ionian Seas.

## Number of seasonal variations:

Rainfall season: Most of the island's rain occurs during the winter months, from October through March.

Snowfall season: During the winter much of Greece may have snow, and much snowfall can be expected in the higher mountains of Greece.

Summers in Greece: Usually very hot, and in July and August temperatures usually reach 30 to 35°C, but sometimes even 40°C and more.

## Number of Epicenter zones: 9

1) Kerkira region, Greece; 2) West of Nidri, Greece; 3) Aegean

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Table 4a: Samples of rainfall followed by earthquakes in previous years in New

Zealand.	
Precursor Area	Enicontor Zono
Australia:27-46S 138-153E	Now Zooland
New Zealand:34-46S 169-178E	
Australia	
27-33S 149-153E	Kermadec Islands, New Zealand
New Zealand	27-30S 175-179E
37-39S 176-178E	
Australia:	
28-37S 144,147-153E,	Kermadec Islands:
New Zealand:	27-30S 176-178W
34-39S 172-178E	South of Kermadec Islands:
Heavy rain in Sydney & northern Victoria	32-35S 176-170E/M/
and east Gippsland:	52-556 170-173E/W
35-38S 138,141,144,146,148-150E	
New Zealand:	Raoul Island, Kermadec Isl, NZ:
35,37-38S 174,176-177E	30.025°S 177.639°W
37S 176E	
<ul> <li>South Australia, burned</li> </ul>	Off E. coast of N. Island, New
<ul> <li>Fire in East Gippsland</li> </ul>	Zealand:
<ul> <li>Whale washed up Newport beach</li> </ul>	37-38S 177-179E
in Sydney	
Australia	
37.56S 149.90E	North Island of New Zealand
New Zealand:	38-40S 175-177E
36-43S 169-174E	
	On the Internet of Name Zantan de
30-425 139-151E	South Island of New Zealand:
	42-455 167-175E
37-45S 169-173E	
42-403 100-170E	
20. silet wholes strended on NZ S lel's	
39, pilot whales stranded on NZ 5 ISI'S	
	UII VV. COAST OF S. ISIAND, N.Z 45-
38-425 145-148E	485 165-168E
46 10S 166 38E	
Forest fire in south-western Victoria, NZ	

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Table 5a: Samples of rainfall followed by earthquakes in previous years in Italy (Central Italy).

Rainfall Location	Earthquake Location
Italy	
(38,40 &42N 13-14,16-17E) (64-118mm at 5 stans)	Central Italy:
Italy (M)	43.38N ; 12.52E
(40-41N 08-09,12,14,17E) (51-93mm at 4 stans)	
Slovenia	Central Italy;
(45.76N 14.20E 989mm)	42.92N ; 13.12E
Italy	Jan/Central Italy;
(42.43N 14.20E)	42.53N ; 13.28E

Sea (E of Greece); 4) Ionian Sea (W of Greece); 5) Southern Greece; 6) Dodecanese Islands, Greece; 7) Dodecanese Is.-Turkey border reg; 8) Crete, Greece; 9) Greece

Direction of Earthquakes (Epicenter zones) occurs to the South of rainfall (Table 6a to 6e).

#### Andaman and Nicobar Islands

Number of Islands: 572

 Table 5b:
 Samples of rainfall followed by earthquakes in previous years in Italy (Southern Italy).

Rainfall Location	Earthquake Location
Italy(S) (41.05N 15.23E 360mm) S Italy (39.58N 15.88E 54mm)	S Italy: 41.43N ; 14.43E
Italy (40.65N 17.95E 50mm) Libyan Arab Jamahiriya (32.08N 12.55E 59mm) (31.86N 10.98E 325mm)	Southern Italy: 41.68N ; 14.82E Sicily, Italy: 38.19N ; 15.57E
SW Italy (39.58N 15.88E 62mm)	S Italy: 39.812°N 16.003°E.
Italy(S) (38 12N 15 33E 59mm)	Sep/M 5.3 (4.6;4.1) Greece: 38.71N ; 22.73E
S Italy (39N 16 &18E) (57-75mm) Italy(S)	Sicily, Italy: 36.72N ; 15.07E Sicily & Southern Italy:
(37 43N 13 26E 52.2mm)	36,38-39N ; 14-15E

Table 5c: Samples of rainfall followed by earthquakes in 2021, Italy.



Table 6a: Samples of rainfall followed by earthquakes in previous years, Greece Aegean Sea.

Precursor Area	Epicenter zone area
39-42N 22-29E	39-40N 25-26E
July 09,2013	Aegean Sea
Bulgaria	40.36N ; 25.97E
(42 12N 25 20E 68m)	
Turkey (W)	Aegean Sea:
(40 58N 28 49E 200.2mm)	39.711°N, 25.630°E
Turkey (NW)	
(40 11N 29 04E 55.4mm)	Aegean Sea;
Greece(NE)	39.62N ; 25.55E
(39 55N 25 14E 50.0mm)	

Number of seasonal variations: Monsoon or rainy season, lasting from June to September. The season is dominated by the humid southwest summer monsoon, which slowly sweeps across the country beginning in late May or early June.

### Number of Epicenter zones: 2

Direction of Earthquakes (Epicenter zones) occurs to the East of rainfall (Table 7-7d) (Figure 2).

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Table 6b: Dodecanese Islands, Greece-2014 (January-June).		
	Turkey (W):	Dodecanese Islands, Greece:
	(37-38N 23,27-28E) (52-80mm)	35-36°N 26-27°E

#### Table 6c: Crete, Greece.

Precursor Area	Epicenter Zone Area
Greece(SE)	Crete, Greece:
(35 29N 24 07E 77mm)	34.571°N, 24-25°E
Greece	Crete, Greece:
(37 42N 26 55E 60.0 mm)	34-36°N, 23-24,26°E
	Crete, Greece:
Greece (S)	34-35N ; 23,26E
(37N 21-22E)(56-60mm)	Central Mediterranean Sea:
SW Turkey	35.32N ; 22.58E
(37 02N 27 26E 57mm)	Southern Greece:
	37.36N ; 23.02E

Table 6d: Greece West.		
Geological coordinates of	Geological coordinates of epicentre	
precursor area:	zone area:	
38-46N 15-21E	36-40N 19-22E	
Macedonia	Grooco	
Greece (W)	Greece.	
(41 06N 20 49E 50mm)	40.14N ; 21.04E	
Albania	Kerkira region, Greece:	
(40 28N 19-20E)(55- 64mm)	39.864°N, 19.747°E	
Yugoslavia		
(43-44N 20-21E) (55-70mm at 5	W of Nidri Grooco:	
stans)		
Italy	30.090 N 20.333 E	
(41 03N 15 14E 52mm)		
Bosnia and Herzegovina		
(43 21N 17-18E 65.3mm)		
Yugoslavia		
(42 26N 18-19 &21E 80mm)		
Croatia(Greece W)	0 (0)40	
(42 34N 18 16E 53.2mm)	Greece (SW):	
Macedonia	38.675°N, 21.121°E	
(41 45N 22 11E 74mm)	38.03N ; 21.35E	
Greece(N)		
40 27N 21 17E 345mm)		
Greece (W)		
(38 37N 20 46F 329 9mm)		
Bosnia and Herzegovina		
(43-44N 16-17E 124.2mm		
Croatia	Ionian Sea:	
(44 06N 15 21E 52.2mm).	37.334°N, 20.811°E	
Yugoslavia		
(42 46N 18 57E 68mm )		
Croatia	Greece:	
(42 34N 18 16E 56.8mm)	37-38°N, 22-23°E	
Bosnia and Herzegovina	,	
(43 21N 17 48E 65.5mm)		
Yugoslavia	Southern Greece:	
(42N 18-19E)	36.515°N. 22.917°E	
Croatia		
(42 34N 18 16E 76.5mm)		

## Conclusion

Both atmospheric weather anomalies and earthquakes are repeating every year at same places to the corresponding epicenter zones with respect to the position of the orbital motion of the earth.

This empirically observed earthquake research prediction study provides the strong evidence of connection between atmospheric weather anomalies and earthquakes.

Same earthquake prediction method applied for same and different places of different continents; similar results observed. This method also best suitable to warn individual and populations of



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Table 7: Geological coordinates precursor area and epicenter zones.

Precursor Area	Area of Epicenter Zones
Andaman 08-21N 72-102E	10-18N 92-95E
Nicobar Islands 06-11N 75-101E	06-09N 92-95E

Table 7a: Samples of rainfall followed by earthquakes in previous years, Andaman Island.

Precursor Area	Epicenter Zone
Andhra Pradesh, S India (For Andaman) (16-	
17N 82-83E) (146mm)	May/M 5.9 Bay of Bengal:
India	18.24N ; 88.05E
(19.08N 82.03E 56mm)	
India; Jagdalpur	Andaman Islands, India:
(19 05N 82 02E)	14.427°N, 93.417°E
Andaman Islands:	Andaman Islands India:
11 40N 92 43E	13 851°N 03 655°E (8-11
Tropical Cyclone Three	13.031 N, 33.033 E (0-11
Wind: 40 MPH - Location: 15.9N 87.7E	uays)
Flood in India	Andaman Islands, India:
Orissa (20-21&23N 85-87E), Andhra Pradesh	12-13°N 95°F
(17&26N 83&88E).	12-13 N, 33 E
Tropical Cyclone Lehar	Andaman Islands, India:
08.1N 97.1E; wind: 85mph	11.45N ; 93.63E
Cold wave conditions over south Indian states	SE of Port Blair, Andaman
Tamilnadu and North Interior Karnataka	Islands, India: 10.619°N,
	94.117°E.
Heavy rain in different parts of Tamilnadu,	
S India. Temperature crosses 100°F in four	
districts.	Andaman Islands, India
(08 29N 76 57E) and (11 40N 92 43E)	10 601°N 93 889°F
S India	
(12-13N 74,77 & 80E)	
(11 40N 92 43E)	

### earthquakes.

Epicenter zones generated onshore earthquake precursors are identifiable, observable, verifiable and testable for any seismic regions.

This empirical research based on observed and measured phenomena from actual experience.

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Table 7c: Samples of rainfall followed by earthquakes in previous years, Nicobar Islands, India.

Precursor Area	Epicenter Zone
Sri Lanka & S India	Nicobar Islands, India
S India, Sri Lanka & Thailand (06-08 &10N 79,81 &99-101E) Tropical Cyclone: 09.8N 83.8E;wind:75mph	Nicobar Islands, India: 9.75N ; 93.02E 6.18N ; 95.41E
Sri Lanka & India (06-09N 76-80E) Heat wave above 100F condition prevails in S. India for 5 days.	07-09°N, 93-94°E
S India Kozhikode: 11 15N 75 47E Sri Lanka: 06 02N 80 13E	6.648°N, 95.614°E
Sri Lanka (06-07N 79-81E) S India, Kerala (08-09N 73&76E).	06-08°N, 92-93°E
March 18, 2014 Andhra Pradesh, South India: The Seshachalam forests, where a fire broke out in the forested Tirumala hills. Reports of a second fire are also doing the rounds. So far about 400 hectares of forest cover has burnt to ashes. Mar.19,2014 Sri Lanka (06.11N 81.13E 80.5mm)	March 21, 2014 M 6.3 (5.4; 5.3; 5.0; 4.9; 4.6; 4.5; 4.4;4.3;4.2;4.1) Nicobar Islands, India: 7.71N; 94.22E



Table 7d: Samples of rainfall followed by earthquakes in 2021, Nicobar Islands,

#### of life to serve this humanity.

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