

INFOHYDRO

ECUADOR

Hydrological observation in the country are largely undertaken by [MINISTERIO DE ENERGÍA Y MINAS](#)

The following information pertaining to:

[MINISTERIO DE ENERGÍA Y MINAS](#)

[Preliminary information](#)

[Pluviographs - Continuous Precipitation Recording](#)

[Daily Precipitation](#)

[Evaporation](#)

[Stage non-recording](#)

[Stage recording](#)

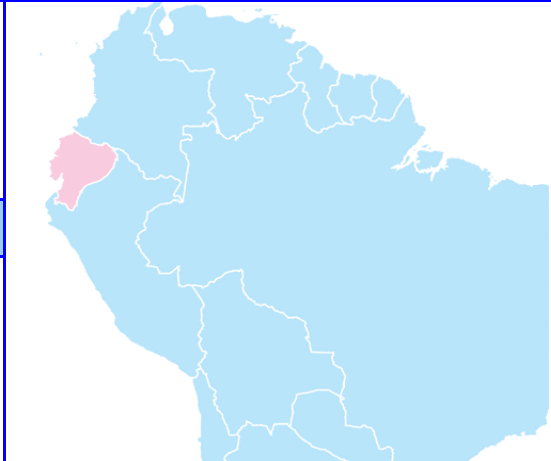
[Discharge non-recording](#)

[Discharge recording](#)

[Groundwater](#)

[Sediment](#)

[Water quality](#)



Percentage of coverage represented by these data:

N/A

Last update:

10/07/2007

Preliminary information

Main unit of institution name (*Base name of an institution, usually the name of the governing body*)

ECUADOR

[MINISTERIO DE ENERGÍA Y MINAS](#)

Subordinate unit of institution name (*Part of a name of an institution that defines a subdivision or department or unit of the institution*)

[INSTITUTO NACIONAL DE METEOROLOGÍA E HIDROLOGÍA](#)

Abbreviated name

INAMHI

Full mailing address (*of the Institution*)

INAMHI
Iñaquito N36-14 y Corea
Quito
Ecuador
Po.Box. 61-310

Full location address (*of the Institution*). Indicate only if not the same then mailing address

-

Telephone number (*Central operator*)

(593 - 2) 3971100

Telefacsimile number (*Central operator*)

(593 - 2) 2241874

Electronic mail identifier (*E-mail address*)

inamhi@inamhi.gov.ec

Host system network address (*Web site address*)

www.inamhi.gov.ec

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Preliminary information		ECUADOR
Protocol options (<i>Code, word or phrase that specifies capabilities that are supported by a service provider ; "yes" -If activity undertaken - "no" otherwise</i>)	General Hydrology	yes
	Hydropower	yes
	Agriculture	yes
	Water supply	yes
	Flood control	yes
	Pollution control	no
	Navigation	no
	Others (<i>please specify</i>)	Meteorología
Coverage	National (<i>if not leave blank</i>)	yes
	Other (Regional, State, Province...)	-
Types of stations operated	Hydrometric	yes
	Groundwater	yes
	Climate	yes
	Snow	no
	Lake levels	no
	Glaciers	yes
	Estuaries	no
	Ice thickness	yes
	Soil Moisture	yes
	Sediment	yes
	Water quality	yes
Bio diversity	no	
Geographical Descriptors	Area of country or region (State) (<i>km²</i>)	256370 km2
	Mean Annual Precipitation (<i>mm</i>)	250mm - 1500mm
	Standard Deviation of Annual Precipitation (<i>mm</i>)	-
	General climate (<i>Tropical,sub-tropical, Arid, semi-arid, temperate etc...</i>)	Tropical y Andino

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Pluviographs - Continuous Precipitation Recording		ECUADOR
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		63
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	8
	5 years to 10 years	7
	11 years to 30 years	12
	Greater than 30 years	36
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	-
	Radio	-
	Satellite	28
	Others (<i>Please specify and give number operating</i>)	-
Method used to estimate precipitation (<i>Number of sites currently operating</i>)	Tipping Bucket	28
	Siphon	63
	Others (<i>Please specify and give number operating</i>)	-
Number of radar stations located in the country (<i>Number of sites</i>)		0
Date that this information was last updated (<i>month and year</i>)		12-1998
Are the data: Available in an electronic medium (<i>yes or no</i>)		no
Stored in a database (<i>yes or no</i>)		no

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Daily Precipitation		ECUADOR
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		128
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	152
	5 years to 10 years	202
	11 years to 30 years	273
	Greater than 30 years	229
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	-
	Radio	-
	Satellite	48
	Post/Collected	-
	Others (<i>Please specify and give number operating</i>)	-
Date that this information was last updated (<i>month and year</i>)		06-2006
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Evaporation		ECUADOR
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Tres observaciones diarias
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		112
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	157
	5 years to 10 years	112
	11 years to 30 years	176
	Greater than 30 years	72
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	-
	Radio	-
	Satellite	28
	Post/Collected	-
Method used to estimate evaporation (<i>Yes -If activity undertaken- No, otherwise</i>)	Others (<i>Please specify and give number operating</i>)	-
	Direct measurement	yes
	Indirect calculation	yes
Date that this information was last updated (<i>month and year</i>)		06-2006
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Stage non-recording		ECUADOR
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Dos observaciones diarias
Number of sites at which measurements are taken (<i>Number of sites currently operating</i>)		121
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	157
	5 years to 10 years	112
	11 years to 30 years	176
	Greater than 30 years	72
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	-
	Post/Collected	4
	Others (<i>Please specify and give number operating</i>)	19
Method used to estimate stage (<i>Yes -If activity undertaken. -No- otherwise</i>)	Gauge-board	yes
	Others (<i>Please specify</i>)	Orphimedes
Date that this information was last updated (<i>month and year</i>)		06-2006
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Stage recording		ECUADOR
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Linnigrafos estala minima 1 hora se obtienen niveles medios diarios
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		41
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Specify if Regional, State,Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	59
	5 years to 10 years	42
	11 years to 30 years	73
	Greater than 30 years	20
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	-
	Radio	-
	Satellite	19
	Post/Collected	4
	Others (<i>Please specify and give number operating</i>)	-
Method used to estimate stage (<i>Yes -If activity undertaken. -No- otherwise</i>)	Gauge-board	yes
	Float Well	yes
	Gas-pressure	yes
	Others (<i>Please specify</i>)	-
Date that this information was last updated (<i>month and year</i>)		06-2006
Are the data:Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Discharge non-recording		ECUADOR
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		instantánea
Number of sites at which measurements are taken (<i>Number of sites currently operating</i>)		80
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	98
	5 years to 10 years	70
	11 years to 30 years	103
	Greater than 30 years	52
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	-
	Post/Collected	-
	Others (<i>Please specify and give number operating</i>)	-
Method used to determine stage (<i>Yes -If activity undertaken- No, otherwise</i>)	Direct measurement (<i>Gauge Boards</i>)	yes
	Indirect calculation	yes
Method used to estimate discharge (<i>Yes -If activity undertaken. -No- otherwise</i>)	Rating Curve	yes
	Others (<i>Please specify</i>)	-
Date that this information was last updated (<i>month and year</i>)		06-2006
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Discharge recording		ECUADOR
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		No disponemos sistemas de medición automática de caudal (curva de gasto)
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		-
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	-
	5 years to 10 years	-
	11 years to 30 years	-
	Greater than 30 years	-
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	-
	Radio	-
	Satellite	-
	Post/Collected	-
	Others (<i>Please specify and give number operating</i>)	-
Method used to determine stage (<i>Yes -If activity undertaken- No, otherwise</i>)	Gauge-board	yes
	Float Well	yes
	Gas-pressure	yes
	Others (<i>Please specify</i>)	-
Method used to estimate discharge (<i>Yes -If activity undertaken- No,</i>	Rating Curve	yes
	Others (<i>Please specify</i>)	-
Date that this information was last updated (<i>month and year</i>)		-
Are the data: Available in an electronic medium (<i>yes or no</i>)		-
Stored in a database (<i>yes or no</i>)		-

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Groundwater		ECUADOR
Recording frequency	Non-continuous	10
	Continuous	-
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		10
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	4
	5 years to 10 years	-
	11 years to 30 years	-
	Greater than 30 years	-
Date that this information was last updated (<i>month and year</i>)		05-2007
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes
Are water quality data taken (<i>yes or no</i>)		yes

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Sediment		ECUADOR
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		días
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		20 cuencas
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	-
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	4
	5 years to 10 years	-
	11 years to 30 years	32
	Greater than 30 years	16
Date that this information was last updated (<i>month and year</i>)		06-2007
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Water quality		ECUADOR
Data routinely measured (Yes -if activity undertaken. -No- otherwise)	Water Temperature	yes
	Air Temperature	no
	pH	yes
	Specific Conductivity	yes
	Dissolved Oxygen	yes
	Turbidity	yes
	Major ions	yes
	Metals	yes
	Organics	no
	Pesticides	no
	Herbicides	no
	Mercury	no
	Phenols	no
	Nutrients	no
BOD & COD	no	
POPs	no	
Others (Please specify)	alclinidad,color dureza, sólidos	
Number of sites at which recordings are taken (Number of sites currently operating)		50
Level of responsibility for national coverage (Yes if "National" or specify "Other" but not both)	National (if not leave blank)	yes
	Other (Regional, State, Province...)	-
Tabular information on the number of stations operated for different time periods (Number of sites currently operating)	Less than 5 years	44
	5 years to 10 years	28
	11 years to 30 years	14
	Greater than 30 years	-
Date that this information was last updated (month and year)		06-2007
Are the data: Available in an electronic medium (yes or no)		yes
Stored in a database (yes or no)		yes