



**LANDSLIDE BULLETIN NO. 3  
 FOR TROPICAL STORM BUTSOY**

Issued on 11 June 2020 at 6:00 pm  
 Next advisory: 12 June 2020 at 6:00 am

REFERENCE STATIONS AND AREAS OF INFLUENCE	SATELLITE RAINFALL FORECAST - GFS MODEL (mm)									Daily Total	Accumulated
	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST			
<b>Viga, Catanduanes (ARG)</b> Areas of Influence: <i>Panganiban, Caramoran, Viga, Baras, Gigmoto and San Miguel</i>											
June 10 (Wednesday)										0	0
June 11 (Thursday)				16	2.7	0.5			0.2	19.4	19.4
June 12 (Friday)	1.6	0.8	1.2	2.8	3.3	3.3	3.1	2.6	18.7	38.1	
June 13 (Saturday)	1.9	0.9	0.5	0.7	1.1	1.4	0.7	0.5	7.7	45.8	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											
<b>Pandan, Catanduanes (AWS)</b> Areas of Influence: <i>Pandan and Bagamanoc</i>											
June 10 (Wednesday)										0	0
June 11 (Thursday)				2.1	1.1	1.2				4.4	4.4
June 12 (Friday)	0.9	0.5	0.7	2.7	3.6	3.2	1.9	1.7	15.2	19.6	
June 13 (Saturday)	2	0.2	0.4	2.2	1.4	1.1	0.5	0.3	8.1	27.7	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											
<b>Virac, Catanduanes (ARG)</b> Areas of Influence: <i>Virac and Bato</i>											
June 10 (Wednesday)										0	0
June 11 (Thursday)				24	4.4	1.3			0.4	30.1	30.1
June 12 (Friday)	2.2	1.4	2.8	2.3	3	4.8	5	4.3	25.8	55.9	
June 13 (Saturday)	3.2	1.5	0.6	0.9	0.4	1.3	0.6	0.4	8.9	64.8	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											
<b>San Andres, Catanduanes</b> Area of Influence: <i>San Andres</i>											
June 10 (Wednesday)										0	0
June 11 (Thursday)				20	3.2	4.9	0.3			28.4	28.4
June 12 (Friday)	1.4	0.7	1.9	2.9	2.4	3.1	2.7	2.2	17.3	45.7	
June 13 (Saturday)	1.2	0.4	0.9	1.3	0.8	1.3	0.7	0.6	7.2	52.9	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											
<b>Garchitorena, Camarines Sur (AWS)</b> Areas of Influence: <i>Garchitorena and Presentacion</i>											
June 10 (Wednesday)										0	10.5
June 11 (Thursday)				5	3.8	1.9	1.7	0.3		12.7	23.2
June 12 (Friday)	1.4	0.3	0.9	2.1	1.9	3.7	2.7	1.2	14.2	37.4	
June 13 (Saturday)	0.3		2.2	6	1.6	1.4	0.6	0.6	12.7	50.1	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											
<b>Tinambac, Camarines Sur (AWS)</b> Areas of Influence: <i>Siruma, Tinambac, Naga City, Bombon, Calabanga and Magarao</i>											
June 10 (Wednesday)										0	0
June 11 (Thursday)				6	6	12	2.6	3.8		30.4	30.4
June 12 (Friday)	4.9		0.8	2	4.6	3.7	1.6	0.2	17.8	48.2	
June 13 (Saturday)			2.7	3	1.2	1.7	0.2		8.8	57	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											
<b>Caramoan, Camarines Sur (AWS)</b> Areas of Influence: <i>Caramoan</i>											
June 10 (Wednesday)										0	0
June 11 (Thursday)				11	3.8	2.1	1	0.2		18.1	18.1
June 12 (Friday)	1.2	0.3	1.8	2.7	2.2	3.3	2.4	2	15.9	34	
June 13 (Saturday)	0.5		1.5	2.6	1.1	1.3	0.6	0.8	8.4	42.4	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											
<b>Iriga City, Camarines Sur (AWS)</b> Areas of Influence: <i>Ocampo, Baao, Iriga City, Buhi and Sagñay</i>											
June 10 (Wednesday)										0	0
June 11 (Thursday)				7	18	20	2	5		52	52
June 12 (Friday)	2.5	0.4	1.4	3.8	5	4.1	2.2	0.6	20	72	
June 13 (Saturday)	0.3	0.3	0.9	1.9	1.5	1.5	2	0.3	8.7	80.7	
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>											

REFERENCE STATIONS AND AREAS OF INFLUENCE	SATELLITE RAINFALL FORECAST - GFS MODEL (mm)									
<b>Ragay, Camarines Sur (AWS)</b> Areas of Influence: <i>Del Gallego, Ragay, Lupi and Sipocot</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				6	8	9	8	4.5	35.5	35.5
June 12 (Friday)	2.1	1	2.4	2.2	3.7	3.5	4.8	3.1	22.8	58.3
June 13 (Saturday)	0.5	3.3	3.1	0.2	1				8.1	66.4
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Pasacao, Camarines Sur (AWS)</b> Areas of Influence: <i>Libmanan, Pasacao, Gainza, Pamplona, San Fernando, Camaligan, Canaman and San Pascual (Masbate)</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				8	12	21	10	10	61	61
June 12 (Friday)	2	0.3	2.1	2.8	5	3.8	3.5	1.6	21.1	82.1
June 13 (Saturday)	1.3	3.1	2.7	2.1	3.7	1			13.9	96
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Bula, Camarines Sur (AWS)</b> Areas of Influence: <i>Milaor, Minalabac, Bula, Pili, Nabua and Balatan</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				8	11	14	4	10	47	47
June 12 (Friday)	2.6	0.5	1.9	3.7	5	3.4	2.5	0.4	20	67
June 13 (Saturday)	0.7	0.8	1.3	2.1	1.5	1.8			8.2	75.2
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>San Jose, Camarines Sur (AWS)</b> Areas of Influence: <i>Goa, Tigaon, San Jose and Lagonoy</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				4.9	9	22	1.3	0.8	38	38
June 12 (Friday)	3.1		0.6	2.4	3.9	4.1	2	0.6	16.7	54.7
June 13 (Saturday)			1.5	4	2	2.3	0.5	0.4	10.7	65.4
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Labo, Camarines Norte (AWS)</b> Areas of Influence: <i>Labo, Paracale and Vinzons</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				3.5	7	5	5	0.7	21.2	21.2
June 12 (Friday)	0.4	0.4	0.8	0.8	3.2	1.6	3	2.2	12.4	33.6
June 13 (Saturday)		0.3	0.5	0.3	0.2				1.3	34.9
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Jose Panganiban, Camarines Norte (AWS)</b> Areas of Influence: <i>Jose Panganiban, Sta. Elena and Capalonga</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				3.9	8	6	6	1.5	25.4	25.4
June 12 (Friday)		0.2	0.6	0.6	3.7	2.3	3.6	1.9	12.9	38.3
June 13 (Saturday)	0.2								0.2	38.5
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Tulay na Lupa, Labo, Camarines Norte (ARG)</b> Areas of Influence: <i>San Vicente and San Lorenzo Ruiz</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				3.8	7	5	4.4	1.1	21.3	21.3
June 12 (Friday)	0.5	0.5	1.4	1.4	3.2	2	3.1	2.2	14.3	35.6
June 13 (Saturday)				0.7	1	0.4	0.2		2.3	37.9
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Daet, Camarines Norte (ARG)</b> Areas of Influence: <i>Daet, Mercedes, Basud and Talisay</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				3.2	4.9	4.9	4.7	1.1	18.8	18.8
June 12 (Friday)	0.9	0.2	0.6	0.8	3.5	2.1	2	1.4	11.5	30.3
June 13 (Saturday)		0.3	1.8	1.3	0.6				4	34.3
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Legazpi City, Albay (AWS)</b> Areas of Influence: <i>Camalig, Legazpi City, Jovellar, Daraga, Bacacay, Sto. Domingo and Donsol (Sorsogon)</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				30	48	9		1.3	88.3	88.3
June 12 (Friday)	1	0.9	1.5	3.3	3.8	4.2	2	0.6	17.3	105.6
June 13 (Saturday)	0.4	0.5	0.7	2.1	0.7	1.1	0.2	0.3	6	111.6
<b>Accumulated forecast satellite rainfall may trigger landslides.</b>										

REFERENCE STATIONS AND AREAS OF INFLUENCE	SATELLITE RAINFALL FORECAST - GFS MODEL (mm)									
<b>Ligao City, Albay (AWS)</b> Areas of Influence: <i>Ligao, Guinobatan and Pio Duran</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				14	43	13	0.9	3.1	74	74
June 12 (Friday)	1.5	1.1	1.7	4.3	4.6	3.6	2.8	0.9	20.5	94.5
June 13 (Saturday)	0.4	0.3	0.6	3.3	1.4	1.3			7.3	101.8
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Polangui, Albay (AWS)</b> Area of Influence: <i>Polangui</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				10	35	15	1.2	3.7	64.9	64.9
June 12 (Friday)	1.7	1	1.7	4.4	4.9	3.6	2.7	0.9	20.9	85.8
June 13 (Saturday)	0.4	0.3	0.8	3.2	1.6	1.5			7.8	93.6
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Libon, Albay (AWS)</b> Areas of Influence: <i>Libon, Oas and Bato (Camarines Sur)</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				10	30	13	1.7	5	59.7	59.7
June 12 (Friday)	1.7	1	1.8	4.3	4.8	3.4	2.8	1.2	21	80.7
June 13 (Saturday)	0.5	0.6	1.2	3.4	1.8	1.7			9.2	89.9
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Tiwi, Albay (AWS)</b> Areas of Influence: <i>Tiwi, Malinao, Tabaco and Malilipot</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				10	29	28	1.1	1	69.1	69.1
June 12 (Friday)	1.8	0.3	0.9	3.1	3.6	5	3	1.9	19.6	88.7
June 13 (Saturday)	0.9	0.2	1	1.1	0.8	1.7	0.4	0.5	6.6	95.3
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Rapu-Rapu, Albay (AWS)</b> Areas of Influence: <i>Rapu-Rapu and Prieto Diaz (Sorsogon)</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				9	4.9	1.4		0.4	15.7	15.7
June 12 (Friday)	1.3	0.9	1.4	1.6	2.2	6	4.2	1.9	19.5	35.2
June 13 (Saturday)	1	0.4		0.2	0.2	2.8	0.8	0.3	5.7	40.9
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Matnog, Sorsogon (ARG)</b> Areas of Influence: <i>Irosin, Matnog and Bulan</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				6	2.8		0.5	2.6	11.9	11.9
June 12 (Friday)	1.9	1.9	0.9	2	2	4.4	3.6	0.9	17.6	29.5
June 13 (Saturday)	0.8	0.2			0.6	4.5	1.6	0.7	8.4	37.9
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Barcelona, Sorsogon (AWS)</b> Areas of Influence: <i>Gubat, Casiguran and Barcelona</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				3.4	4.3	0.2	0.2	1.2	9.3	9.3
June 12 (Friday)	1.3	1.1	0.9	1.7	2.3	6	3.5	0.9	17.7	27
June 13 (Saturday)					0.5	2.2	1.7	0.4	4.8	31.8
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Castilla, Sorsogon (AWS)</b> Areas of Influence: <i>Pilar, Castilla, Sorsogon City, Magallanes and Manito (Albay)</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				19	20	1		1.2	41.2	41.2
June 12 (Friday)	1	0.9	1.4	2.8	3.2	4.6	2.6	0.5	17	58.2
June 13 (Saturday)	0.3	0.5	1.1	1.9	1.1	1.7	0.4	0.3	7.3	65.5
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Bulusan, Sorsogon (ARG)</b> Areas of Influence: <i>Bulusan, Juban and Sta. Magdalena</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				4.9	4.5		0.2	1.8	11.4	11.4
June 12 (Friday)	1.4	1.4	1.1	2.1	2.6	4.8	3.5	0.4	17.3	28.7
June 13 (Saturday)					0.9	2.6	1.8	0.3	5.6	34.3
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										

REFERENCE STATIONS AND AREAS OF INFLUENCE	SATELLITE RAINFALL FORECAST - GFS MODEL (mm)									
<b>Masbate City, Masbate (AWS)</b> Areas of Influence: <i>Masbate City, Mobo, Uson, Cawayan, San Jacinto, San Fernando, Batuan, Placer Dimasalang, Palanas, Pio V. Corpuz, Cataingan and Esperanza</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				11	1.2		0.3	2.6	15.1	15.1
June 12 (Friday)	0.8	1.3	0.9	1.3	2.3	2.6	2.4	1.3	12.9	28
June 13 (Saturday)	1.5	1.6	0.8	0.3		5	1.1	1.1	11.4	39.4
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Mandaon, Masbate (AWS)</b> Areas of Influence: <i>Mandaon, Milagros and Balud</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				11	0.5		0.3	2.3	14.1	14.1
June 12 (Friday)	0.6	1	0.9	0.5	1.1	1.7	1.2	1.2	8.2	22.3
June 13 (Saturday)	1.2	4.2	1.4	0.2	1.3	4.7	3.2	1.3	17.5	39.8
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
<b>Aroroy, Masbate (ARG)</b> Areas of Influence: <i>Aroroy, Baleno, Claveria and Monreal</i>	2am UTC/ 10am PST	5am UTC/ 1pm PST	8am UTC/ 4pm PST	11am UTC/ 7pm PST	2pm UTC/ 10pm PST	5pm UTC/ 1am PST	8pm UTC/ 4am PST	11pm UTC/ 7am PST	Daily Total	Accumulated
June 10 (Wednesday)									0	0
June 11 (Thursday)				1.8	1.9			1.6	5.3	5.3
June 12 (Friday)	0.7	0.9	1	1.1	1.3	2.4	3.9	2	13.3	18.6
June 13 (Saturday)	2.4	4.1	2.3	0.4	1.1	6	0.4	1.4	18.1	36.7
<b>Accumulated forecast satellite rainfall is unlikely to initiate landslides.</b>										
Communities and the Local Disaster Risk and Reduction Management Councils are advised to take the necessary precautionary measures and watch for the next bulletin.										

Prepared by:

**Geohazards and Engineering Geology Section**

Checked by:

  
**ARLENE E. DAYAO**  
Chief Geologist

Approved by:

  
**GUILLERMO A. MOLINA, JR. IV**  
Regional Director