

Executive Summary of flood inundation report on 19th July 2020

National Remote Sensing Centre, Hyderabad is conducting near real time flood mapping project for Assam using Satellite data. Flood was reported in Assam during 19 July 2020 due to heavy incessant rainfall. NRSC has analyzed TerraSARx satellite data of 19 July 2020 and prepared a flood map for part of Assam. Copy of the flood layer is shared with North Eastern Space Applications Centre (NESAC) for Value added product. The flood layer is brought into GIS environment to generate detail flood inundation information district wise at village level. The administrative layers like district boundary, revenue circle, village boundary and thematic layer Land Use /Land Cover are utilized from Space Based Information support for Decentralized Planning (SIS-DP) project. On the date of data accusation **5,026** Villages were under flood inundation in **23** districts of Assam covering **115271.63Ha**.land. Baksa, Barpeta, Biswanath, Bongaigaon, Charaideo, Chirang, Dhemaji, Dhubri, Goalpara, Golaghat, Hojai, Jorhat, Kamrup Metro, Kamrup Rural, Karbi Anglongdiphu, Kokrajhar, Lakhimpur, Majuli, Morigaon, Nagaon, Nalbari, Sibsagar and Sonitpur districts were reported to be worst affected. Detail district wise flood inundation information can be summarized as below.

Sl.No.	District	Revenue Circle	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total Area (Ha)
1	Baksa	Baganpara	9	Agriculture	6.55	9.49
				Other	2.94	
		Baksa	36	Agriculture	39.92	49.72
				Other	9.80	
		Barama	30	Agriculture	48.25	61.43
				Other	13.19	
		Barnagar	55	Agriculture	415.71	464.35
				Other	48.64	
		Goreswar	3	Other	0.31	0.31
		Jalah	47	Agriculture	314.05	365.70
				Other	51.65	
		Sarupeta	71	Agriculture	464.43	667.75
				Built-Up	11.46	
				Other	191.85	
		Tamulpur	18	Agriculture	199.54	277.18
Built-Up	5.37					
Other	72.27					
Tihu	1	Agriculture	15.60	16.64		
		Built-Up	0.28			
		Other	0.76			
2	Barpeta	Baghbor RC	81	Agriculture	2126.86	2679.66
				Built-Up	100.00	
				Other	452.80	
		Bajali RC	94	Agriculture	871.35	1032.69
				Other	161.34	
		Barnagar (PT) RC	33	Agriculture	162.23	209.28
				Other	47.04	
		Barpeta RC	174	Agriculture	2900.74	4192.93

Sl.No.	District	Revenue Circle	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total Area (Ha)	
				Built-Up	19.50		
				Other	1272.68		
		Chengar RC	25	Agriculture	122.86		142.21
				Other	19.35		
		Kalgachia RC	32	Agriculture	364.21		414.01
				Built-Up	0.09		
				Other	49.71		
		Sarthebari RC	167	Agriculture	2195.43		3084.46
				Built-Up	7.61		
				Other	881.43		
		Sarupeta RC	104	Agriculture	1661.54		1983.91
				Built-Up	8.73		
Other	313.65						
3	Biswanath	Biswanath RC	25	Agriculture	34.23	67.49	
				Built-Up	0.13		
				Other	33.13		
		Gohpur RC	59	Agriculture	231.38	769.50	
				Built-Up	0.22		
				Other	537.90		
Helem RC	39	Agriculture	618.04	1479.23			
		Built-Up	0.72				
		Other	860.46				
4	Bongaigaon	Bijni RC	56	Agriculture	505.57	847.07	
				Built-Up	2.84		
				Other	338.66		
		Boitamari RC	63	Agriculture	395.78	722.86	
				Built-Up	1.93		
				Other	325.15		
		Bongaigaon RC	46	Agriculture	102.35	194.40	
				Built-Up	2.43		
				Other	89.62		
		Sidli (Part) RC	41	Agriculture	125.37	245.31	
				Built-Up	7.61		
				Other	112.33		
Srijangram RC	130	Agriculture	1631.56	2286.20			
		Built-Up	15.94				
		Other	638.70				
5	Charaideo	Sonari RC	1	Other	0.47	0.47	
	Bengtol RC	Other		0.21	0.21		
6	Chirang	Bijni RC	15	Agriculture	68.45	130.45	
				Other	62.00		
		Sidli (PT) RC	31	Agriculture	13.76	24.62	
				Other	10.87		

Sl.No.	District	Revenue Circle	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total Area (Ha)
7	Darrang	Dalgaon	40	Agriculture	367.21	555.70
				Built-Up	0.34	
				Other	188.15	
		Mangaldoi	39	Agriculture	366.37	707.29
				Built-Up	0.02	
				Other	340.90	
		Pathorighat	52	Agriculture	321.91	725.49
				Built-Up	15.33	
				Other	388.24	
		Sipajhar	96	Agriculture	1307.67	3065.19
				Built-Up	20.13	
				Other	1737.39	
8	Dhemaji	Dhemaji RC	11	Agriculture	119.66	216.98
				Other	97.33	
		Jonai RC	46	Agriculture	506.70	1440.30
				Other	933.61	
		Sissibargaon RC	62	Agriculture	156.54	592.29
				Built-Up	0.54	
Other	435.22					
9	Dhubri	Bilasipara (PT) RC	79	Agriculture	381.63	569.30
				Built-Up	10.61	
				Other	177.06	
		Chapar (PT) RC	158	Agriculture	938.44	2081.59
				Built-Up	108.68	
				Other	1034.47	
10	Goalpara	Balijana RC	77	Agriculture	605.84	1415.90
				Built-Up	17.77	
				Other	792.28	
		Dudhnai RC	5	Agriculture	0.85	4.08
				Other	3.23	
		Lakhipur RC	83	Agriculture	729.55	1524.18
				Built-Up	66.10	
				Other	728.53	
		Matia RC	55	Agriculture	629.84	2249.76
				Other	1619.92	
		Rangjuli RC	35	Agriculture	295.56	613.22
				Other	317.66	
11	Golaghat	Boikakhat RC	63	Agriculture	2204.16	3929.24
				Built-Up	3.14	
				Other	1721.94	
		Dergaon RC	56	Agriculture	296.35	540.01
				Built-Up	6.12	
				Other	237.53	

Sl.No.	District	Revenue Circle	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total Area (Ha)		
		Golaghat RC	4	Agriculture	3.92	16.60		
				Other	12.68			
		Khumtai RC	33	Agriculture	852.23	1177.08		
				Built-Up	0.05			
				Other	324.80			
		Sarupathar RC	35	Agriculture	51.53	79.87		
				Other	28.34			
		Hojai	Doboka RC	24	Agriculture	457.40	636.85	
					Other	179.45		
	Hojai RC		57	Agriculture	1400.08	1662.70		
				Other	262.62			
	Lanka RC		1	Agriculture	0.16	0.36		
Other		0.20						
12	Jorhat	Jorhat East RC	20	Agriculture	194.34	347.53		
				Built-Up	0.03			
				Other	153.16			
		Jorhat West RC	51	Agriculture	516.33	758.39		
				Built-Up	13.38			
				Other	228.67			
		Teok RC	39	Agriculture	476.39	586.32		
				Other	109.93			
		Titabor RC	9	Agriculture	2.68	3.38		
				Other	0.70			
		13	Kamrup Metro	Azara	10	Agriculture	111.12	807.63
						Built-Up	28.36	
Other	668.15							
Chandrapur	25			Agriculture	199.36	1382.00		
				Built-Up	58.28			
				Other	1124.36			
Dispur	6			Built-Up	50.38	124.42		
				Other	74.04			
Guwahati	4			Other	59.99	59.99		
Sonapur	79			Agriculture	1388.60	3229.40		
				Built-Up	54.55			
				Other	1786.25			
14	Kamrup Rural	Boko RC	24	Agriculture	30.94	48.37		
				Other	17.43			
		Chamaria RC	57	Agriculture	1197.83	1425.50		
				Built-Up	18.64			
				Other	209.03			
		Chhaygaon RC	5	Agriculture	1.77	3.99		
				Other	2.22			
		Goroimari RC	35	Agriculture	253.01	334.63		

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				Built-Up	0.72	
				Other	80.90	
		Hajo RC	37	Agriculture	491.57	825.36
				Built-Up	1.52	
		Kamalpur RC	9	Other	332.27	5.22
				Agriculture	3.56	
		Koya RC	28	Other	1.65	308.16
				Agriculture	205.56	
		Nagarbera RC	33	Agriculture	1042.17	2106.41
				Built-Up	31.88	
				Other	1032.35	
		North Guwahati (PT) RC	9	Agriculture	42.41	44.94
				Other	2.53	
		Rangia RC	41	Agriculture	117.85	177.81
Built-Up	0.34					
Other	59.62					
15	KarbiAnglongDiphu	Diphu RC	3	Agriculture	7.60	15.84
				Other	8.23	
		Phuloni RC	1	Agriculture	0.71	0.71
Silonijan RC	3	Agriculture	2.06	9.45		
		Other	7.39			
16	Kokrajhar	Dotma	26	Agriculture	15.84	31.00
				Built-Up	0.03	
				Other	15.13	
		Kokrajhar	109	Agriculture	142.62	358.42
				Built-Up	20.92	
Other	194.87					
17	Lakhimpur	Bihpuria	8	Agriculture	46.35	474.11
				Other	427.77	
		Naobaicha	2	Agriculture	1.39	4.11
				Other	2.72	
18	Majuli	Majuli RC	8	Agriculture	146.80	179.67
				Built-Up	5.83	
				Other	27.04	
19	Morigaon	Bhuragaon	68	Agriculture	1178.96	2155.93
				Other	976.97	
		Laharighat	71	Agriculture	789.96	918.53
				Other	128.56	
		Marigaon	206	Agriculture	5537.04	7686.19
				Built-Up	211.35	
				Other	1937.80	
Mayong	163	Agriculture	9337.40	13778.41		

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				Built-Up	35.63				
				Other	4405.39				
				Mikirbbeta	71		Agriculture	1004.33	1193.31
				Built-Up	3.24				
		Other	185.74						
20	Nagaon	Dhing RC	96	Agriculture	687.10	1192.22			
				Built-Up	0.58				
				Other	504.54				
		Kalibor RC	35	Agriculture	270.43	2735.87			
				Other	2465.44				
		Kampur RC	98	Agriculture	3512.07	7545.68			
				Other	4033.62				
		Nagaon RC	107	Agriculture	948.54	1184.84			
				Built-Up	2.70				
				Other	233.60				
		Raha RC	111	Agriculture	3953.72	7465.19			
				Built-Up	19.93				
				Other	3491.55				
		Rupahi RC	49	Agriculture	98.75	1386.24			
				Other	1287.49				
		Samaguri RC	6	Agriculture	1.89	2.23			
Other	0.34								
21	Nalbari	Baganpara(PT) RC	1	Agriculture	3.58	3.67			
				Other	0.09				
		Barama(PT) RC	7	Agriculture	3.70	5.07			
				Other	1.37				
		Barbhag RC	40	Agriculture	122.32	279.31			
				Other	156.99				
		Barkhetri RC	23	Agriculture	108.43	237.63			
				Other	129.20				
		Ghograpar (PT) RC	28	Agriculture	13.64	28.48			
				Other	14.84				
		Nalbari RC	37	Agriculture	18.09	45.46			
				Other	27.37				
PachimNalbari RC	18	Agriculture	81.30	186.52					
		Other	105.21						
Tihu(PT) RC	46	Agriculture	116.85	175.76					
		Built-Up	1.40						
		Other	57.51						
22	Sibsagar	Amguri RC	28	Agriculture	393.52	547.36			
				Built-Up	5.70				
				Other	148.14				
		Dimow RC	87	Agriculture	1197.99	1875.18			

Sl.No.	District	Revenue Circle	No. of Villages Inundated	LULC	Inundated Area (Ha)	Total Area (Ha)
				Other	677.20	
		Nazira RC	31	Agriculture	87.77	108.66
				Built-Up	0.23	
				Other	20.65	
		Sibsagar RC	106	Agriculture	1346.29	1616.82
				Built-Up	2.92	
				Other	267.60	
23	Sonitpur	Chariduar RC	1	Agriculture	0.44	2.13
				Other	1.69	
		Dhekiajuli RC	25	Agriculture	109.10	839.26
				Other	730.16	
		Na-Duar RC	79	Agriculture	397.73	901.46
				Built-Up	0.67	
				Other	503.06	
		Tezpur RC	53	Agriculture	253.94	1297.98
				Built-Up	79.72	
				Other	964.33	