

Executive Summary of flood inundation report on 01st August 2020

National Remote Sensing Centre, Hyderabad is conducting near real time flood mapping project for Assam using Satellite data. The flood was reported in Assam during 01st August 2020 due to incessant heavy rainfall. NRSC has analyzed Sentinel-1A SAR satellite data of 01st August 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 a GIS environment to generate the detailed flood inundation information district wise at the 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 acquisition, **5,664** Villages were under flood inundation in **19** districts of Assam covering **2,01,546.43** Ha. total land out of which **2,158.97** Ha settlement areas and **1,26,168.78** Ha. agricultural land. Detail district wise flood inundation information can be summarized as below:

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
1	Baksa	Barnagar	36	Agriculture	300.38	1627.91
				Other	33.07	
		Goreswar	35	Agriculture	168.38	
				Other	50.33	
		Sarupeta	19	Agriculture	173.61	
				Built-Up	8.62	
				Other	91.42	
		Tamulpur	23	Agriculture	548.89	
				Built-Up	19.14	
				Other	234.09	
2	Barpete	Baghbor RC	77	Agriculture	1999.36	18162.23
				Built-Up	121.70	
				Other	410.49	
		Bajali RC	81	Agriculture	2236.51	
				Built-Up	8.20	
				Other	329.83	
		Barnagar (PT) RC	43	Agriculture	228.14	
				Other	76.91	
		Barpete RC	155	Agriculture	3215.03	
				Built-Up	15.14	
				Other	1424.67	
		Chengar RC	12	Agriculture	131.48	
				Other	7.94	
		Kalgachia RC	55	Agriculture	611.12	
				Other	254.29	
		Sarthebari RC	169	Agriculture	3449.44	
				Built-Up	21.43	
				Other	1170.23	
Sarupeta RC	89	Agriculture	2014.10			
		Built-Up	21.15			
		Other	415.06			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
3	Bongaigaon	Bijni RC	46	Agriculture	585.59	1129.54
				Built-Up	0.06	
				Other	154.18	
		Srijangram RC	27	Agriculture	332.32	
				Other	57.38	
4	Cachar	Katigora RC	96	Agriculture	2019.90	10744.00
				Built-Up	21.58	
				Other	2890.68	
		Lakhipur RC	5	Agriculture	11.80	
				Other	4.35	
		Silchar RC	85	Agriculture	1271.74	
				Built-Up	106.40	
				Other	1680.83	
		Sonai RC	106	Agriculture	1569.84	
				Built-Up	30.17	
				Other	1105.62	
		Udarbond RC	5	Agriculture	11.91	
				Other	19.18	
5	Chirang	Bijni RC	10	Agriculture	76.63	119.75
				Other	43.12	
6	Darrang	Dalgaon	216	Agriculture	3308.22	13719.79
				Built-Up	51.91	
				Other	1342.02	
		Kalaigaon	52	Agriculture	838.42	
				Built-Up	4.89	
				Other	132.29	
		Khoirabari	27	Agriculture	326.74	
				Other	82.45	
		Mangaldoi	82	Agriculture	1635.24	
				Built-Up	3.39	
				Other	610.69	
		Pathorighat	96	Agriculture	1265.91	
				Built-Up	15.65	
				Other	936.48	
		Sipajhar	93	Agriculture	1443.01	
Built-Up	68.16					
Other	1654.33					
7	Goalpara	Matia RC	18	Agriculture	117.80	350.26
				Other	219.61	
		Rangjuli RC	6	Agriculture	1.84	
				Other	11.02	
8	Hailakandi	Algapur	74	Agriculture	505.35	3181.42
				Built-Up	26.66	
				Other	1641.60	
		Hailakandi	47	Agriculture	292.83	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)			
8	Hailakandi	Hailakandi	47	Built-Up	36.32	3181.42			
				Other	397.48				
		Katlichara	3	Agriculture	2.30				
				Other	14.59				
		Lala	27	Agriculture	171.85				
				Other	92.43				
9	Hojai	Doboka RC	82	Agriculture	2199.92	13947.32			
				Other	1050.52				
		Hojai RC	117	Agriculture	3122.58				
				Built-Up	30.78				
				Other	1279.87				
		Lanka RC	121	Agriculture	4036.34				
				Built-Up	47.78				
				Other	2179.52				
		10	Kamrup Metro	Azara	10		Agriculture	50.82	5979.22
Built-Up	35.06								
Other	577.27								
Chandrapur	24			Agriculture	143.55				
				Built-Up	65.50				
				Other	1242.62				
Dispur	8			Built-Up	84.35				
				Other	149.35				
Guwahati	6			Built-Up	1.73				
				Other	146.20				
Sonapur	74			Agriculture	1428.82				
				Built-Up	49.21				
				Other	2004.74				
11	Kamrup Rural			Boko RC	6	Agriculture	24.05	13553.61	
						Other	30.30		
		Chamaria RC	40	Agriculture	1629.54				
				Built-Up	21.91				
				Other	232.17				
		Chhaygaon RC	3	Agriculture	5.74				
				Other	4.97				
		Goreswar (PT) RC	34	Agriculture	340.73				
				Other	77.45				
		Goroimari RC	46	Agriculture	620.34				
				Built-Up	9.66				
				Other	360.62				
		Hajo RC	109	Agriculture	1748.78				
				Built-Up	17.81				
				Other	781.62				
Kamalpur RC	112	Agriculture	1848.91						
		Built-Up	8.54						
		Other	289.62						

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
11	Kamrup Rural	Koya RC	27	Agriculture	403.44	13553.61
				Other	164.61	
		Nagarbera RC	29	Agriculture	1335.61	
				Built-Up	38.19	
				Other	1326.71	
		North Guwahati (PT) RC	32	Agriculture	338.98	
				Built-Up	33.95	
				Other	288.13	
		Rangia RC	88	Agriculture	1140.65	
				Built-Up	13.56	
Other	417.00					
12	Karbi Anglong West	Donka RC	23	Agriculture	719.61	1110.21
				Other	390.60	
13	Karbi Anglong Diphu	Phuloni RC	5	Agriculture	3043.87	3560.25
				Other	516.38	
14	Karimganj	Badarpur RC	45	Agriculture	72.89	4266.57
				Built-Up	18.47	
				Other	634.61	
		Karimganj RC	10	Agriculture	23.75	
				Other	39.36	
		Nilambazar RC	45	Agriculture	315.03	
				Built-Up	2.99	
				Other	904.41	
		Ramkrishna Nagar RC	74	Agriculture	351.77	
				Built-Up	18.44	
Other	1884.85					
15	Morigaon	Bhuragaon	65	Agriculture	971.84	33120.92
				Other	976.55	
		Laharighat	71	Agriculture	1284.12	
				Built-Up	2.09	
				Other	273.48	
		Marigaon	209	Agriculture	7360.48	
				Built-Up	247.63	
				Other	2486.44	
		Mayong	156	Agriculture	10424.81	
				Built-Up	37.35	
				Other	4757.95	
		Mikirbheta	91	Agriculture	3585.50	
Built-Up	16.46					
Other	696.23					
16	Nagaon	Dhing RC	117	Agriculture	3153.52	48989.33
				Built-Up	14.71	
				Other	3170.08	
		Kalibor RC	76	Agriculture	1446.05	
				Built-Up	11.15	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
16	Nagaon	Kampur RC	114	Other	216.00	48989.33
				Agriculture	5395.07	
				Built-Up	12.70	
		Nagaon RC	192	Other	6040.33	
				Agriculture	6181.21	
				Built-Up	82.11	
		Raha RC	143	Other	1933.32	
				Agriculture	6968.18	
				Built-Up	21.30	
		Rupahi RC	104	Other	4649.36	
				Agriculture	2106.05	
				Built-Up	18.74	
		Samaguri RC	129	Other	3680.18	
				Agriculture	2655.44	
				Built-Up	12.62	
17	Nalbari	Barbhag RC	66	Agriculture	479.75	5313.07
				Other	257.55	
		Barkhetri RC	94	Agriculture	700.42	
				Built-Up	2.12	
		Ghograpar (PT) RC	36	Other	973.58	
				Agriculture	311.64	
		Nalbari RC	8	Other	114.34	
				Agriculture	27.53	
		Pachim Nalbari RC	42	Other	17.76	
				Agriculture	1270.79	
		Tihu(PT) RC	28	Other	414.93	
				Agriculture	376.91	
18	Sonitpur	Chariduar RC	113	Built-Up	108.10	19675.38
				Other	607.72	
				Agriculture	2433.73	
		Dhekiajuli RC	229	Built-Up	30.95	
				Other	2142.36	
				Agriculture	4935.62	
		Na-Duar RC	126	Other	1046.14	
				Built-Up	7.81	
				Agriculture	4085.77	
		Tezpur RC	117	Other	2194.04	
				Built-Up	425.70	
				Agriculture	1657.44	
19	Udalguri	Dalgaon (PT) RC	29	Other	69.34	2995.65
				Agriculture	407.76	
		Dhekiajuli (PT)	31	Agriculture	363.11	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
19	Udalguri	RC		Other	85.29	2995.65
		Kalaigaon RC	81	Agriculture	946.24	
				Built-Up	1.13	
				Other	188.29	
		Khoirabari RC	34	Agriculture	152.52	
				Built-Up	0.16	
				Other	45.48	
		Mangaldoi (PT) RC	34	Agriculture	518.10	
				Other	30.80	
		Udalguri RC	44	Agriculture	157.75	
				Built-Up	0.10	
Other	29.58					