

## *Executive Summary of flood inundation report on 16<sup>th</sup> July 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 16<sup>th</sup> July 2020 due to incessant heavy rainfall. NRSC has analyzed SAOCOM-1A SAR(L Band) satellite data of 16<sup>th</sup> 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, **10,695** Villages were under flood inundation in **23** districts of Assam covering **5,63,124.39**Ha. total land out of which **6,351.26** Ha settlement areas and **3,37,831.46** 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	Baganpara	37	Agriculture	1687.57	31864.99
				Other	814.22	
		Baksa	79	Agriculture	2569.80	
				Built-Up	0.39	
				Other	934.22	
		Barama	53	Agriculture	2301.44	
				Other	495.84	
		Barnagar	78	Agriculture	2496.84	
				Other	518.71	
		Goreswar	86	Agriculture	2169.29	
				Built-Up	15.87	
				Other	636.25	
		Jalah	80	Agriculture	3005.54	
				Built-Up	9.70	
				Other	1127.55	
		Sarupeta	81	Agriculture	2248.29	
				Built-Up	33.79	
				Other	832.76	
Tamulpur	173	Agriculture	6147.55			
		Built-Up	15.99			
		Other	2555.80			
Tihu	24	Agriculture	1042.88			
		Built-Up	0.77			
		Other	203.94			
2	Barpeta	Baghbor RC	79	Built-Up	158.75	33939.42
				Other	1066.44	
		Bajali RC	105	Agriculture	2896.87	
				Built-Up	4.31	
				Other	560.62	
		Barnagar (PT) RC	98	Agriculture	2279.82	
Other	774.00					

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
2	Barpeta	Barpeta RC	179	Agriculture	7242.63	33939.42
				Built-Up	121.24	
				Other	2429.75	
		Chengar RC	22	Agriculture	449.59	
				Other	85.29	
		Kalgachia RC	78	Agriculture	1947.68	
				Other	875.07	
		Sarthebari RC	161	Agriculture	5635.00	
				Built-Up	26.56	
				Other	1784.81	
		Sarupeta RC	100	Agriculture	4470.59	
				Built-Up	11.58	
Other	1118.82					
3	Biswanath	Biswanath RC	254	Built-Up	162.17	24205.87
				Other	2281.24	
		Gohpur RC	148	Agriculture	8041.21	
				Built-Up	24.38	
				Other	4048.59	
		Helem RC	161	Agriculture	7054.05	
Built-Up	8.91					
Other	2585.31					
4	Bongaigaon	Bijni RC	79	Built-Up	17.49	4056.14
				Other	809.68	
		Bongaigaon RC	2	Agriculture	8.37	
				Other	6.44	
		Srijangram RC	135	Agriculture	2217.67	
				Built-Up	7.77	
Other	988.71					
5	Cachar	Katigora RC	156	Built-Up	69.01	25851.63
				Other	5863.21	
		Lakhipur RC	64	Agriculture	1162.10	
				Built-Up	27.84	
				Other	525.15	
		Silchar RC	159	Agriculture	3418.30	
				Built-Up	259.84	
				Other	3915.15	
		Sonai RC	145	Agriculture	5731.15	
				Built-Up	159.11	
				Other	3879.48	
		Udarbond RC	36	Agriculture	599.69	
Built-Up	17.76					
Other	223.86					
6	Chirang	Bijni RC	149	Built-Up	22.45	1717.92
				Other	1695.47	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
7	Darrang	Dalgaon	230	Built-Up	160.32	19987.92
				Other	3357.30	
		Kalaigaon	53	Agriculture	1095.96	
				Built-Up	5.96	
				Other	499.97	
		Khoirabari	34	Agriculture	594.42	
				Other	297.16	
		Mangaldoi	91	Agriculture	2324.29	
				Built-Up	35.55	
				Other	1489.35	
		Pathorighat	101	Agriculture	1540.10	
				Built-Up	44.99	
				Other	1557.89	
		Sipajhar	106	Agriculture	2814.84	
Built-Up	119.58					
Other	4050.24					
8	Goalpara	Dudhnai RC	52	Built-Up	0.40	8265.80
				Other	558.76	
		Matia RC	76	Agriculture	1430.21	
				Built-Up	4.20	
				Other	2951.87	
		Rangjuli RC	96	Agriculture	1491.89	
Built-Up	8.89					
Other	1819.57					
9	Golaghat	Boikakhat RC	101	Agriculture	5628.64	49828.38
				Built-Up	326.69	
				Other	5217.97	
		Dergaon RC	71	Agriculture	2032.69	
				Built-Up	82.88	
				Other	1237.48	
		Golaghat RC	125	Agriculture	11241.10	
				Built-Up	42.09	
				Other	2306.15	
		Khumtai RC	71	Agriculture	2632.69	
				Built-Up	22.51	
				Other	1163.78	
		Morangi RC	54	Agriculture	1531.52	
				Built-Up	52.92	
Other	332.17					
Sarupathar RC	81	Agriculture	11600.46			
		Built-Up	196.99			
		Other	4179.64			
10	Hailakandi	Algapur	71	Built-Up	53.90	8349.89
				Other	2606.36	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
10	Hailakandi	Hailakandi	76	Agriculture	857.46	8349.89
				Built-Up	215.57	
				Other	1843.74	
		Katlichara	19	Agriculture	166.99	
				Other	266.33	
		Lala	59	Agriculture	1289.39	
Built-Up	25.26					
Other	1024.89					
	Hojai	Doboka RC	93	Other	2196.03	25918.43
				Agriculture	7222.73	
		Hojai RC	119	Built-Up	83.17	
				Other	2500.01	
				Agriculture	9526.72	
		Lanka RC	147	Built-Up	282.57	
Other	4107.19					
Agriculture	9526.72					
12	Jorhat	Jorhat West RC	111	Built-Up	100.58	13641.89
				Other	2570.33	
		Titabor RC	131	Agriculture	8597.34	
				Built-Up	20.60	
13	Kamrup Metro	Azara	32	Built-Up	127.21	11052.32
				Other	1181.65	
		Chandrapur	22	Agriculture	229.03	
				Built-Up	93.52	
				Other	1345.04	
		Guwahati	2	Built-Up	0.18	
				Other	6.36	
		North Guwahati	1	Built-Up	1.47	
				Other	0.60	
		Sonapur	94	Agriculture	3139.28	
Built-Up	251.72					
Other	4676.26					
14	Kamrup Rural	Boko RC	83	Other	1391.16	38071.91
				Agriculture	3203.65	
		Chamaria RC	67	Built-Up	95.99	
				Other	1754.40	
				Agriculture	782.71	
		Chhaygaon RC	68	Built-Up	108.06	
				Other	1106.84	
				Agriculture	171.62	
		Goreswar (PT) RC	16	Built-Up	0.11	
				Other	69.03	
Agriculture	1245.34					
Goroimari RC	66	Built-Up	28.32			
		Agriculture	1245.34			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
14	Kamrup Rural	Hajo RC	121	Other	1288.61	38071.91
				Agriculture	5387.43	
				Built-Up	82.53	
				Other	3480.60	
		Kamalpur RC	114	Agriculture	2261.80	
				Built-Up	39.59	
				Other	512.74	
		Koya RC	26	Agriculture	434.83	
				Built-Up	0.39	
				Other	458.08	
		Nagarbera RC	37	Agriculture	2118.96	
				Built-Up	57.95	
				Other	2830.78	
		North Guwahati (PT) RC	36	Agriculture	572.53	
				Built-Up	60.59	
				Other	746.33	
		Palashbari RC	116	Agriculture	3388.66	
				Built-Up	194.42	
Other	2985.93					
Rangia RC	59	Agriculture	947.18			
		Built-Up	21.64			
		Other	243.10			
15	Karbi Anglong West	Donka RC	37	Built-Up	39.65	1444.46
				Other	1404.81	
16	Karbil Anglong Diphu	Diphu RC	6	Built-Up	18.60	25861.08
				Other	1675.09	
		Phuloni RC	7	Agriculture	20594.74	
				Other	2840.32	
		Silonijan RC	20	Agriculture	534.58	
				Other	197.75	
17	Karimganj	Badarpur RC	71	Built-Up	49.72	18700.60
				Other	1974.61	
		Karimganj RC	110	Agriculture	1534.67	
				Built-Up	251.96	
				Other	1445.54	
		Nilambazar RC	156	Agriculture	2170.77	
				Built-Up	331.99	
				Other	3614.26	
		Patharkandi RC	53	Agriculture	1036.65	
				Built-Up	16.30	
				Other	1298.18	
		Ramkrishna Nagar RC	107	Agriculture	1313.45	
Built-Up	20.94					
Other	3641.58					

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
18	Lakhimpur	Bihpuria	175	Built-Up	66.76	23717.49
				Other	3751.82	
		Kadam	1	Agriculture	0.27	
				Other	0.35	
		Naobaicha	129	Agriculture	3015.40	
				Other	2942.64	
		Narayanpur	204	Agriculture	6507.45	
				Built-Up	19.96	
				Other	2682.32	
		North Lakhimpur	101	Agriculture	2967.05	
				Built-Up	57.04	
				Other	1706.41	
19	Morigaon	Bhuragaon	70	Built-Up	0.78	54174.74
				Other	2225.05	
		Laharighat	76	Agriculture	3177.09	
				Built-Up	5.02	
				Other	1600.36	
		Marigaon	213	Agriculture	13915.37	
				Built-Up	328.80	
				Other	5500.16	
		Mayong	164	Agriculture	13938.55	
				Built-Up	51.86	
				Other	6857.61	
		Mikirbheta	97	Agriculture	5348.13	
Built-Up	19.79					
Other	1206.18					
20	Nalbari	Baganpara(PT) RC	7	Agriculture	181.59	12780.90
				Other	78.01	
		Barama(PT) RC	12	Agriculture	323.94	
				Other	64.13	
		Barbhag RC	55	Agriculture	433.03	
				Other	496.29	
		Barkhetri RC	93	Agriculture	1853.94	
				Built-Up	16.11	
				Other	2446.86	
		Ghograpar (PT) RC	84	Agriculture	1914.53	
				Built-Up	0.31	
				Other	633.44	
Nalbari RC	61	Agriculture	498.14			
		Built-Up	0.30			
		Other	197.27			
Pachim Nalbari RC	41	Agriculture	870.96			
		Built-Up	0.18			
		Other	367.78			

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20	Nalbari	Tihu(PT) RC	66	Agriculture	1804.96	12780.90
				Built-Up	6.28	
				Other	592.84	
21	Nagaon	Dhing RC	102	Built-Up	26.48	59089.81
				Other	3178.73	
				Kalibor RC	123	
		Built-Up	168.04			
		Other	3553.63			
		Kampur RC	145	Agriculture	7281.63	
				Built-Up	12.71	
				Other	6407.65	
		Nagaon RC	188	Agriculture	8514.34	
				Built-Up	130.29	
				Other	2885.85	
		Raha RC	141	Agriculture	8129.61	
				Built-Up	20.76	
				Other	5183.20	
		Rupahi RC	90	Agriculture	1174.38	
				Built-Up	19.48	
				Other	3622.11	
		Samaguri RC	123	Agriculture	3576.09	
				Built-Up	11.06	
				Other	1741.15	
		22	Sonitpur	Chariduar RC	123	
Other	2108.80					
Dhekiajuli RC	339			Agriculture	12212.32	
				Built-Up	96.86	
				Other	5641.46	
Na-Duar RC	171			Agriculture	9520.28	
				Built-Up	31.88	
				Other	3810.66	
Tezpur RC	59			Agriculture	1791.53	
		Built-Up	48.55			
		Other	2937.69			
23	Udalguri	Dalgaon (PT) RC	36	Built-Up	4.45	32332.39
				Other	371.33	
		Dhekiajuli (PT) RC	37	Agriculture	833.40	
				Built-Up	0.15	
				Other	272.85	
		Harisinga RC	112	Agriculture	3239.06	
				Built-Up	3.01	
				Other	1068.52	
Kalaigaon RC	112	Agriculture	3377.80			
		Built-Up	11.33			

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23	Udalguri	Khoirabari RC	99	Other	1386.61	32332.39
				Agriculture	2840.69	
				Built-Up	30.69	
				Other	1084.51	
		Mangaldoi (PT) RC	35	Agriculture	1335.54	
				Other	329.94	
		Udalguri RC	315	Agriculture	12290.49	
				Built-Up	137.82	
				Other	3714.20	