

## *Executive Summary of flood inundation report on 22<sup>nd</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 22<sup>nd</sup> July 2020 due to incessant heavy rainfall. NRSC has analyzed SAOCOM-1A SAR(L-Band) satellite data of 22<sup>nd</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, **15,148** Villages were under flood inundation in **28** districts of Assam covering **8,58,144.97** Ha. total land out of which **8,271.20** Ha settlement areas and **5,69,465.64** 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	38	Agriculture	1725.04	34493.33
				Other	835.59	
		Baksa	131	Agriculture	2702.10	
				Built-Up	0.68	
				Other	962.81	
		Barama	54	Agriculture	2392.13	
				Built-Up	0.30	
				Other	521.81	
		Barnagar	85	Agriculture	3068.02	
				Other	675.86	
		Goreswar	85	Agriculture	2109.49	
				Built-Up	16.03	
				Other	614.30	
		Jalah	81	Agriculture	3352.64	
				Built-Up	10.01	
				Other	1225.32	
		Sarupeta	85	Agriculture	2712.68	
				Built-Up	50.11	
				Other	1051.75	
		Tamulpur	175	Agriculture	6413.65	
				Built-Up	24.25	
Other	2643.61					
Tihu	24	Agriculture	1144.58			
		Built-Up	21.06			
		Other	219.51			
2	Barpeta	Baghbor RC	82	Agriculture	6391.32	56359.06
				Built-Up	218.96	
				Other	1711.24	
		Bajali RC	112	Agriculture	4688.43	
				Built-Up	5.00	
Other	1052.12					

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
2	Barpeta	Barnagar (PT) RC	107	Agriculture	2749.29	56359.06
				Other	992.02	
		Barpeta RC	185	Agriculture	10056.86	
				Built-Up	181.25	
				Other	3551.51	
		Chengar RC	31	Agriculture	829.13	
				Other	126.22	
		Kalgachia RC	86	Agriculture	3521.03	
				Built-Up	0.77	
				Other	1549.66	
		Sarthebari RC	178	Agriculture	7907.85	
				Built-Up	32.59	
				Other	2630.25	
		Sarupeta RC	105	Agriculture	6459.82	
				Built-Up	31.44	
Other	1672.30					
3	Biswanath	Biswanath RC	270	Agriculture	9718.19	34206.08
				Built-Up	202.45	
				Other	3500.55	
		Gohpur RC	149	Agriculture	6637.40	
				Built-Up	24.10	
				Other	4552.95	
		Helem RC	168	Agriculture	6376.63	
				Built-Up	24.33	
				Other	3169.48	
4	Bongaigaon	Bijni RC	107	Agriculture	2502.67	17661.72
				Built-Up	27.15	
				Other	1428.25	
		Boitamari RC	117	Agriculture	1058.87	
				Built-Up	127.04	
				Other	2717.77	
		Bongaigaon RC	85	Agriculture	486.78	
				Built-Up	23.04	
				Other	431.46	
		Sidli (Part) RC	39	Agriculture	255.46	
				Built-Up	2.28	
				Other	137.89	
Srijangram RC	238	Agriculture	5351.93			
		Built-Up	90.80			
		Other	3020.30			
5	Charideo	Mahmora RC	94	Agriculture	2411.14	8516.22
				Built-Up	0.63	
				Other	294.09	
		Sonari RC	170	Agriculture	4920.31	
				Built-Up	2.55	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
				Other	887.50	
6	Chirang	Bengtol RC	45	Agriculture	294.91	7461.97
				Built-Up	2.52	
				Other	209.51	
		Bijni RC	173	Agriculture	3301.69	
				Built-Up	26.22	
				Other	1947.08	
		Sidli (PT) RC	129	Agriculture	993.57	
				Built-Up	20.42	
				Other	666.06	
7	Dhemaji	Dhakuakhana (Part) RC	63	Agriculture	2519.21	72224.26
				Other	380.56	
		Dhemaji RC	292	Agriculture	10369.02	
				Built-Up	12.09	
				Other	4689.62	
		Jonai RC	248	Agriculture	8925.68	
				Built-Up	173.81	
				Other	8332.22	
		Sissibargaon RC	280	Agriculture	14830.68	
				Built-Up	42.58	
				Other	10212.10	
		Subansiri (Part) RC	211	Agriculture	8984.39	
				Built-Up	5.20	
				Other	2747.10	
		8	Dhubri	Agamoni RC	68	
Built-Up	23.55					
Other	1409.42					
Bagibari RC	149			Agriculture	3437.04	
				Built-Up	156.74	
				Other	2901.45	
Bilasipara (PT) RC	216			Agriculture	5309.52	
				Built-Up	186.56	
				Other	2770.32	
Chapar (PT) RC	169			Agriculture	2481.22	
				Built-Up	392.12	
				Other	3757.30	
Dhubri (PT) RC	201			Agriculture	3916.00	
				Built-Up	540.11	
				Other	6883.90	
Golokganj (PT) RC	116			Agriculture	1531.85	
				Built-Up	52.56	
				Other	3115.56	
Gossaigaob (PT) RC	21			Agriculture	277.24	
				Built-Up	1.00	
				Other	278.42	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
9	Dibrugarh	Chabua	79	Agriculture	1492.06	34600.49
				Built-Up	72.47	
				Other	802.00	
		Dibrugarh East	88	Agriculture	1044.59	
				Built-Up	78.18	
				Other	296.22	
		Dibrugarh West	164	Agriculture	6276.87	
				Built-Up	56.84	
				Other	4337.77	
		Moran	258	Agriculture	6222.64	
				Built-Up	21.05	
				Other	779.31	
		Naharkatia	136	Agriculture	3744.19	
				Built-Up	7.67	
				Other	1254.93	
		Tengakhat	140	Agriculture	2284.23	
				Built-Up	34.10	
				Other	655.42	
Tingkhong	172	Agriculture	4133.81			
		Built-Up	12.51			
		Other	993.63			
10	Goalpara	Balijana RC	185	Agriculture	4415.67	37136.20
				Built-Up	63.31	
				Other	3202.92	
		Dudhnai RC	64	Agriculture	1300.16	
				Built-Up	0.93	
				Other	685.89	
		Lakhipur RC	183	Agriculture	5754.50	
				Built-Up	517.76	
				Other	5298.14	
		Matia RC	147	Agriculture	5765.56	
				Built-Up	37.43	
				Other	5385.42	
Rangjuli RC	102	Agriculture	2194.95			
		Built-Up	8.34			
		Other	2505.23			
11	Golaghat	Boikakhat RC	103	Agriculture	6344.83	44211.56
				Built-Up	212.14	
				Other	5700.82	
		Dergaon RC	64	Agriculture	1487.25	
				Built-Up	30.31	
				Other	708.21	
		Golaghat RC	130	Agriculture	8839.82	
				Built-Up	42.59	
				Other	2754.03	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
11	Golaghat	Khumtai RC	71	Agriculture	2391.05	44211.56
				Built-Up	22.93	
				Other	845.77	
		Morangi RC	50	Agriculture	1344.57	
				Built-Up	39.58	
				Other	231.79	
		Sarupathar RC	67	Agriculture	9817.27	
				Built-Up	125.72	
				Other	3272.87	
12	Hojai	Doboka RC	92	Agriculture	5146.52	36325.90
				Other	2550.72	
		Hojai RC	126	Agriculture	7923.78	
				Built-Up	43.00	
				Other	3001.52	
		Lanka RC	155	Agriculture	11822.96	
				Built-Up	429.19	
				Other	5408.22	
		13	Jorhat	Jorhat East RC	77	
Built-Up	0.76					
Other	888.66					
Jorhat West RC	120			Agriculture	4949.61	
				Built-Up	66.67	
				Other	1621.10	
Mariani RC	61			Agriculture	1671.42	
				Built-Up	9.03	
				Other	418.47	
Teok RC	145			Agriculture	6465.86	
				Built-Up	10.99	
				Other	2232.15	
Titabor RC	148			Agriculture	6831.16	
				Built-Up	1.35	
				Other	1613.44	
14	Kamrup Metro	Azara	33	Agriculture	539.03	2025.60
				Built-Up	130.13	
				Other	1304.09	
		Guwahati	3	Other	50.42	
		North Guwahati	1	Built-Up	1.36	
				Other	0.57	
15	Kamrup Rural	Boko RC	77	Agriculture	2090.34	48933.84
				Other	1761.63	
		Chamaria RC	67	Agriculture	4846.25	
				Built-Up	120.89	
				Other	2452.94	
		Chhaygaon RC	70	Agriculture	1477.75	
				Built-Up	140.16	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
15	Kamrup Rural			Other	1762.20	48933.84
		Goreswar (PT) RC	13	Agriculture	148.73	
				Other	52.69	
		Goroimari RC	68	Agriculture	2355.18	
				Built-Up	43.22	
				Other	2090.64	
		Hajo RC	133	Agriculture	6135.78	
				Built-Up	104.63	
				Other	3781.60	
		Kamalpur RC	66	Agriculture	1670.48	
				Built-Up	32.71	
				Other	320.90	
		Koya RC	33	Agriculture	544.00	
				Built-Up	0.34	
				Other	502.96	
		Nagarbera RC	40	Agriculture	2763.99	
				Built-Up	82.38	
				Other	4183.08	
		North Guwahati (PT) RC	15	Agriculture	211.39	
				Built-Up	52.56	
				Other	209.60	
Palashbari RC	122	Agriculture	3794.08			
		Built-Up	212.28			
		Other	3480.06			
Rangia RC	73	Agriculture	1132.80			
		Built-Up	21.72			
		Other	353.90			
16	Harbi Anglong West	Donka RC	39	Agriculture	5150.44	6932.64
				Built-Up	24.11	
				Other	1758.09	
17	Karbi anglong Diphu	Diphu RC	10	Agriculture	1432.42	27300.83
				Built-Up	16.61	
				Other	869.45	
		Phuloni RC	10	Agriculture	20384.67	
				Other	4054.10	
		Silonijan RC	15	Agriculture	374.85	
		Other	168.72			
18	Kokrajhar	Bhowraguri	90	Agriculture	701.33	12763.06
				Built-Up	6.37	
				Other	558.44	
		Dotma	175	Agriculture	2289.85	
				Built-Up	15.13	
				Other	1052.64	
		Gossaigaon	176	Agriculture	2463.10	
Built-Up	101.00					

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
18	Kokrajhar	Kokrajhar	173	Other	1373.49	12763.06
				Agriculture	2572.71	
				Built-Up	27.72	
				Other	1601.28	
19	Lakhimpur	Bihpuria	186	Agriculture	7558.49	71813.82
				Built-Up	21.07	
				Other	3744.03	
		Dhakuakhana	189	Agriculture	5935.28	
				Built-Up	0.86	
				Other	1840.77	
		Kadam	166	Agriculture	7367.52	
				Built-Up	14.23	
				Other	3185.74	
		Naobaicha	131	Agriculture	3095.47	
				Other	2177.31	
		Narayanpur	210	Agriculture	5920.57	
				Built-Up	6.07	
				Other	2908.00	
		North Lakhimpur	252	Agriculture	15920.55	
				Built-Up	28.58	
Other	6397.90					
Subansiri(Part)	127	Agriculture	3716.96			
		Built-Up	4.19			
		Other	1970.23			
20	Majuli	Majuli RC	187	Agriculture	14788.77	19328.96
				Built-Up	65.96	
				Other	4474.22	
21	Morigaon	Laharighat	55	Agriculture	1663.84	19331.95
				Built-Up	2.72	
				Other	691.38	
		Marigaon	98	Agriculture	6506.91	
				Built-Up	53.76	
		Mikirbheta	97	Other	2266.35	
Agriculture	6623.77					
Built-Up	31.54					
22	Nagaon	Dhing RC	116	Other	1491.68	70596.53
				Agriculture	3363.39	
				Built-Up	24.59	
		Kalibor RC	145	Other	3545.99	
				Agriculture	4248.18	
				Built-Up	130.36	
		Kampur RC	151	Other	3425.05	
				Agriculture	7622.93	
				Built-Up	33.35	
				Other	6901.07	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
22	Nagaon	Nagaon RC	193	Agriculture	10152.46	70596.53
				Built-Up	139.41	
				Other	3092.80	
		Raha RC	145	Agriculture	8992.98	
				Built-Up	23.16	
				Other	5465.91	
		Rupahi RC	107	Agriculture	1975.83	
				Built-Up	40.00	
				Other	3990.50	
		Samaguri RC	159	Agriculture	5189.23	
				Built-Up	17.80	
				Other	2221.55	
23	Nalbari	Baganpara(PT) RC	7	Agriculture	184.72	15885.55
				Other	77.22	
		Barama(PT) RC	12	Agriculture	339.46	
				Other	74.60	
		Barbhag RC	75	Agriculture	526.85	
				Other	579.87	
		Barkhetri RC	103	Agriculture	2151.99	
				Built-Up	18.94	
				Other	2912.80	
		Ghograpar (PT) RC	91	Agriculture	2092.93	
				Built-Up	0.26	
				Other	651.09	
		Nalbari RC	83	Agriculture	602.55	
				Built-Up	0.32	
				Other	228.91	
		Pachim Nalbari RC	69	Agriculture	1739.65	
				Built-Up	0.06	
				Other	577.17	
Tihu(PT) RC	73	Agriculture	2251.25			
		Built-Up	31.60			
		Other	843.29			
24	Salmara Mankachar	Mankachar RC	100	Agriculture	1329.26	9504.11
				Built-Up	619.07	
				Other	3042.34	
		South Salmara RC	78	Agriculture	1756.74	
				Other	2559.11	
25	Sibsagar	Amguri RC	111	Agriculture	5358.22	41012.54
				Built-Up	15.49	
				Other	903.65	
		Dimow RC	181	Agriculture	10816.90	
				Built-Up	58.10	
				Other	2636.23	



Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
25	Sibsagar	Nazira RC	115	Agriculture	4803.50	41012.54
				Built-Up	10.10	
				Other	550.88	
		Sibsagar RC	153	Agriculture	12150.53	
				Built-Up	12.56	
				Other	3696.36	
26	Sonitpur	Chariduar RC	183	Agriculture	8222.29	45701.85
				Built-Up	217.85	
				Other	2651.27	
		Dhekiajuli RC	253	Agriculture	10403.04	
				Built-Up	69.79	
				Other	3589.98	
		Na-Duar RC	185	Agriculture	10040.60	
				Built-Up	41.34	
				Other	4951.96	
		Tezpur RC	105	Agriculture	2940.28	
				Built-Up	287.52	
				Other	2285.92	
27	Tinsukia	Doomdooma RC	116	Agriculture	2716.33	11438.29
				Built-Up	42.78	
				Other	1259.42	
		Margherita RC	45	Agriculture	757.72	
				Other	716.51	
		Sadiya RC	9	Agriculture	633.07	
				Built-Up	9.00	
				Other	397.03	
		Tinsukia RC	134	Agriculture	3516.65	
Built-Up	157.00					
Other	1232.79					
28	Udalguri	Harisinga RC	18	Agriculture	457.68	2262.51
				Other	141.20	
		Khoirabari RC	44	Agriculture	1256.82	
				Built-Up	13.67	
				Other	393.14	

