

## *Executive Summary of flood inundation report on 15<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 15<sup>th</sup> July 2020 due to incessant heavy rainfall. NRSC has analyzed RADERSAT-2 SAR satellite data of 15<sup>th</sup> June 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, **12067** Villages were under flood inundation in **33** districts of Assam covering **4,56,876.98Ha.** total land out of which **4678.06** Ha settlement areas and **2,90437.23** 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	Baska	Barama	3	Agriculture	34.82	47.57
				Other	12.75	
		Barnagar	56	Agriculture	1027.08	1246.21
				Other	219.13	
		Goreswar	45	Agriculture	396.78	542.44
				Built-Up	7.59	
				Other	138.06	
		Jalah	21	Agriculture	145.21	224.79
				Other	79.58	
		Sarupeta	54	Agriculture	781.83	1086.30
				Built-Up	31.65	
				Other	272.81	
		Tamulpur	77	Agriculture	805.87	1195.24
				Built-Up	13.55	
Other	375.82					
Tihu	13	Agriculture	64.25	88.88		
		Built-Up	7.92			
		Other	16.72			
2	Barpeta	Baghbor RC	76	Agriculture	3475.15	4234.76
				Built-Up	135.86	
				Other	623.75	
		Bajali RC	91	Agriculture	2120.19	2651.43
				Built-Up	9.99	
				Other	521.25	
		Barnagar (PT) RC	68	Agriculture	715.49	960.92
				Built-Up	0.11	
				Other	245.32	
		Barpeta RC	154	Agriculture	5381.42	7346.40
				Built-Up	68.81	
				Other	1896.16	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)		
2	Barpeta	Chengar RC	33	Agriculture	695.74	779.41		
				Other	83.67			
		Kalgachia RC	87	Agriculture	2111.54	2729.87		
				Other	618.33			
		Sarthebari RC	172	Agriculture	5268.96	6897.55		
				Built-Up	22.68			
				Other	1605.91			
		Sarupeta RC	100	Agriculture	3596.59	4629.68		
				Built-Up	26.05			
				Other	1007.03			
		3	Biswanath	Biswanath RC	103	Agriculture	1850.02	2461.17
						Built-Up	2.36	
Other	608.79							
Gohpur RC	82			Agriculture	1694.41	3184.67		
				Built-Up	2.70			
				Other	1487.56			
Helem RC	65			Agriculture	2729.37	4825.76		
				Built-Up	11.43			
				Other	2084.95			
4	Bongaigaon	Bijni RC	54	Agriculture	783.47	1101.97		
				Built-Up	0.10			
				Other	318.39			
		Boitamari RC	71	Agriculture	483.29	932.59		
				Built-Up	3.65			
				Other	445.65			
		Bongaigaon RC	32	Agriculture	205.55	273.06		
				Built-Up	3.49			
				Other	64.03			
		Sidli (Part) RC	20	Agriculture	93.25	131.80		
				Built-Up	0.89			
				Other	37.66			
Srijangram RC	220	Agriculture	3095.11	4609.36				
		Built-Up	41.14					
		Other	1473.12					
5	Cachar	Katigora RC	178	Agriculture	4991.82	10935.01		
				Built-Up	54.81			
				Other	5888.38			
		Lakhipur RC	55	Agriculture	820.36	1181.36		
				Built-Up	11.91			
				Other	349.09			
		Silchar RC	184	Agriculture	3848.39	8272.01		
				Built-Up	297.39			
				Other	4126.23			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)		
5	Cachar	Sonai RC	154	Agriculture	4391.01	7701.06		
				Built-Up	135.02			
				Other	3175.03			
		Udarbond RC	38	Agriculture	572.94	774.39		
				Built-Up	12.45			
				Other	189.00			
6	Charaideo	Mahmora RC	74	Agriculture	1671.96	1742.50		
				Other	70.54			
		Sonari RC	121	Agriculture	1731.56	1873.13		
				Other	141.57			
7	Chirang	Bijni RC	35	Agriculture	226.52	281.30		
				Other	54.78			
		Sidli (PT) RC	35	Agriculture	224.42	369.37		
				Built-Up	14.73			
				Other	130.22			
8	Darrang	Dalgaon	175	Agriculture	3279.55	4795.78		
				Built-Up	62.23			
				Other	1454.00			
		Kalaigaon	49	Agriculture	909.54	1173.61		
				Built-Up	6.78			
				Other	257.29			
		Khoirabari	31	Agriculture	398.23	529.19		
				Other	130.96			
		Mangaldoi	98	Agriculture	2749.58	3939.59		
				Built-Up	6.89			
				Other	1183.11			
		Pathorighat	101	Agriculture	1631.49	2834.22		
				Built-Up	33.88			
				Other	1168.85			
		Sipajhar	112	Agriculture	3733.30	7166.79		
				Built-Up	59.95			
				Other	3373.53			
		9	Dhemaji	Dhakuakhana (Part) RC	54	Agriculture	946.53	103.20
						Other	103.20	
				Dhemaji RC	100	Agriculture	1099.15	1812.35
						Built-Up	2.07	
						Other	711.13	
				Jonai RC	6	Agriculture	21.20	211.63
						Other	190.43	
Sissibargaon RC	63			Agriculture	516.67	990.89		
				Other	474.22			
Subansiri (Part) RC	37			Agriculture	753.56	1027.50		
				Other	273.94			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
10	Dhubri	Bagibari RC	126	Agriculture	2181.15	4048.13
				Built-Up	52.84	
				Other	1814.14	
		Bilasipara (PT) RC	132	Agriculture	2088.97	3010.50
				Built-Up	50.78	
				Other	870.74	
		Chapar (PT) RC	143	Agriculture	1666.02	3825.56
				Built-Up	220.53	
				Other	1939.00	
		Dhubri (PT) RC	32	Agriculture	386.92	572.11
				Built-Up	12.72	
				Other	172.46	
11	Dibrugarh	Chabua	29	Agriculture	248.01	306.43
				Built-Up	14.06	
				Other	44.36	
		Dibrugarh East	33	Agriculture	361.41	477.34
				Other	115.93	
		Moran	112	Agriculture	4009.07	4312.27
				Built-Up	5.47	
				Other	297.74	
		Naharkatia	200	Agriculture	1512.61	1783.25
				Built-Up	3.47	
				Other	267.18	
		Tengakhat	114	Agriculture	717.75	845.36
				Built-Up	15.32	
				Other	112.30	
		Tingkhong	128	Agriculture	1749.62	1826.41
				Built-Up	0.32	
				Other	76.47	
		12	Goalpara	Balijana RC	123	Agriculture
Built-Up	32.11					
Other	2144.37					
Dudhnai RC	45			Agriculture	529.87	776.13
				Other	246.26	
Lakhipur RC	170			Agriculture	3631.83	7993.80
				Built-Up	403.80	
				Other	3958.16	
Matia RC	128			Agriculture	2456.65	5740.92
				Built-Up	16.92	
				Other	3267.35	
Rangjuli RC	82			Agriculture	1236.49	2393.97
				Built-Up	0.22	
				Other	1157.27	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
13	Golaghat	Boikakhat RC	94	Agriculture	5717.08	12288.04
				Built-Up	108.16	
				Other	6462.80	
		Dergaon RC	50	Agriculture	743.00	1126.35
				Built-Up	11.40	
				Other	371.96	
		Golaghat RC	138	Agriculture	5401.80	6998.58
				Built-Up	31.67	
				Other	1565.10	
		Khumtai RC	68	Agriculture	1817.51	2428.26
				Built-Up	15.79	
				Other	594.96	
		Morangi RC	34	Agriculture	359.14	423.23
				Built-Up	1.07	
				Other	63.02	
		Sarupathar RC	72	Agriculture	4675.44	5939.02
				Built-Up	53.10	
				Other	1210.48	
14	Hailakandi	Algapur	73	Agriculture	926.08	3467.79
				Built-Up	55.55	
				Other	2486.17	
		Hailakandi	74	Agriculture	557.48	1742.48
				Built-Up	126.97	
				Other	1058.02	
		Katlichara	22	Agriculture	147.88	374.48
				Built-Up	15.75	
				Other	210.84	
		Lala	68	Agriculture	916.94	1757.54
				Built-Up	27.43	
				Other	813.17	
15	Hojai	Doboka RC	82	Agriculture	4230.21	5983.07
				Other	1752.85	
		Hojai RC	122	Agriculture	6408.67	8298.49
				Built-Up	22.24	
				Other	1867.57	
		Lanka RC	150	Agriculture	6460.33	9649.48
Built-Up	189.95					
Other	2999.20					
16	Jorhat	Jorhat East RC	65	Agriculture	1121.19	1638.00
				Other	516.81	
		Jorhat West RC	92	Agriculture	2623.31	889.17
				Built-Up	32.46	
				Other	518.47	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
16	Jorhat	Mariani RC	31	Agriculture	338.25	441.13
				Other	102.88	
		Teok RC	96	Agriculture	2979.03	3618.49
				Built-Up	3.56	
				Other	635.90	
		Titabor RC	145	Agriculture	5415.33	6866.00
				Built-Up	5.44	
				Other	1445.23	
		17	Kamrup (Metro)	Azara	29	Agriculture
Built-Up	6.89					
Other	473.26					
Chandrapur	25			Agriculture	267.19	1661.99
				Built-Up	96.51	
				Other	1298.30	
Dispur	6			Built-Up	76.23	216.85
				Other	140.63	
Guwahati	10			Other	64.90	64.90
North Guwahati	3			Other	1.78	1.78
Sonapur	83			Agriculture	2140.30	5853.19
				Built-Up	189.83	
		Other	3523.05			
18	Kamrup (Roral)	Boko RC	74	Agriculture	1246.96	2061.12
				Other	814.16	
		Chamaria RC	64	Agriculture	2879.81	4236.49
				Built-Up	43.32	
				Other	1313.36	
		Chhaygaon RC	58	Agriculture	755.60	1566.27
				Built-Up	70.25	
				Other	740.42	
		Goreswar (PT) RC	36	Agriculture	370.31	456.36
				Other	86.05	
		Goroimari RC	62	Agriculture	1179.27	2239.41
				Built-Up	17.52	
				Other	1042.62	
		Hajo RC	126	Agriculture	4395.92	6125.52
				Built-Up	67.54	
				Other	1662.06	
		Kamalpur RC	27	Agriculture	1320.60	1514.44
				Built-Up	7.32	
Other	186.52					
Koya RC	27	Agriculture	421.26	748.46		
		Built-Up	0.15			
		Other	327.04			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
18	Kamrup (Roral)	Nagarbera RC	34	Agriculture	1929.19	4682.37
				Built-Up	58.35	
				Other	2694.83	
		North Guwahati (PT) RC	31	Agriculture	519.89	936.47
				Built-Up	29.44	
				Other	387.14	
		Palashbari RC	100	Agriculture	1955.31	3665.52
				Built-Up	47.98	
				Other	1662.22	
		Rangia RC	81	Agriculture	1054.49	1469.06
				Built-Up	4.19	
				Other	410.38	
19	Karbi Anlong West	Donka RC	26	Agriculture	1614.05	2222.80
				Built-Up	21.25	
				Other	587.50	
20	Karbi Anglong Diphu	Diphu RC	6	Agriculture	360.45	520.59
				Other	160.14	
		Phuloni RC	7	Agriculture	8894.66	10469.98
				Other	1575.32	
		Silonijan RC	7	Agriculture	87.47	122.53
				Other	35.06	
21	Karimganj	Badarpur RC	57	Agriculture	162.08	1331.13
				Built-Up	29.67	
				Other	1139.38	
		Karimganj RC	144	Agriculture	1070.88	2366.77
				Built-Up	232.23	
				Other	1063.66	
		Nilambazar RC	144	Agriculture	1604.65	4498.32
				Built-Up	232.17	
				Other	2661.50	
		Patharkandi RC	46	Agriculture	591.88	1722.82
				Built-Up	34.68	
				Other	1096.26	
		Ramkrishna Nagar RC	106	Agriculture	912.24	3482.13
				Built-Up	23.18	
				Other	2546.71	
22	Kokrajhar	Dotma	25	Agriculture	104.15	142.23
				Other	38.08	
		Kokrajhar	67	Agriculture	399.93	578.44
				Built-Up	4.34	
				Other	174.16	
23	Lakhimpur	Bihpuria	72	Agriculture	2313.69	3749.35
				Built-Up	5.58	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
23	Lakhimpur	Dhakuakhana	156	Other	1430.07	2962.09
				Agriculture	1857.64	
				Built-Up	1.19	
				Other	1103.26	
		Kadam	98	Agriculture	1422.74	1783.49
				Built-Up	0.27	
				Other	360.48	
		Naobaicha	12	Agriculture	183.90	415.19
				Other	231.28	
		Narayanpur	90	Agriculture	1450.92	2257.11
				Built-Up	1.33	
				Other	804.87	
		North Lakhimpur	147	Agriculture	4979.57	6608.10
				Built-Up	0.48	
				Other	1628.04	
Subansiri(Part)	106	Agriculture	2477.91	4005.92		
		Built-Up	6.50			
		Other	1521.51			
24	Majuli	Majuli RC	127	Agriculture	4456.07	5638.56
				Built-Up	38.09	
				Other	1144.40	
25	Morigaon	Bhuragaon	78	Agriculture	2507.32	4177.82
				Other	1670.50	
		Laharighat	69	Agriculture	2509.01	2871.31
				Other	362.30	
		Marigaon	208	Agriculture	10340.10	13391.18
				Built-Up	258.05	
				Other	2793.03	
		Mayong	170	Agriculture	11600.86	17208.54
				Built-Up	40.69	
				Other	5566.99	
		Mikirbheta	88	Agriculture	3805.29	4171.78
				Built-Up	14.59	
Other	351.91					
26	NC Hills	Umrangso RC	1	Agriculture	6.28	6.28
27	Nagaon	Dhing RC	104	Agriculture	1940.36	3564.91
				Built-Up	8.15	
				Other	1616.40	
		Kalibor RC	77	Agriculture	948.22	4354.67
				Built-Up	6.84	
				Other	3399.62	
Kampur RC	135	Agriculture	5753.82	11088.23		
		Other	5334.41			



Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
27	Nagaon	Nagaon RC	160	Agriculture	3637.21	4254.76
				Built-Up	10.36	
				Other	607.18	
		Raha RC	132	Agriculture	6119.29	10091.86
				Built-Up	15.61	
				Other	3956.96	
		Rupahi RC	80	Agriculture	666.76	2644.95
				Built-Up	0.62	
				Other	1977.56	
		Samaguri RC	87	Agriculture	1319.50	1717.71
				Built-Up	0.59	
				Other	397.63	
28	Nalbari	Barama(PT) RC	3	Agriculture	10.99	11.67
				Other	0.68	
		Barbhag RC	68	Agriculture	519.77	736.97
				Other	217.20	
		Barkhetri RC	98	Agriculture	1012.62	2667.80
				Built-Up	10.15	
				Other	1645.03	
		Ghograpar (PT) RC	35	Agriculture	331.98	420.72
				Other	88.74	
		Nalbari RC	36	Agriculture	168.53	238.60
				Other	70.08	
		Pachim Nalbari RC	66	Agriculture	1560.61	2073.74
Other	513.13					
Tihu(PT) RC	52	Agriculture	577.31	1049.80		
		Built-Up	40.21			
		Other	432.28			
29	Salmara Mankachar	Mankachar RC	13	Agriculture	13.57	176.51
				Built-Up	9.96	
				Other	152.98	
		South Salmara RC	65	Agriculture	853.59	2401.15
				Built-Up	151.72	
Other	1395.85					
30	Sibsagar	Amguri RC	89	Agriculture	2857.95	3563.13
				Built-Up	13.74	
				Other	691.45	
		Dimow RC	166	Agriculture	7545.87	9733.67
				Built-Up	30.01	
				Other	2157.79	
		Nazira RC	75	Agriculture	1529.07	1676.06
				Built-Up	4.33	
				Other	142.66	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
30	Sibsagar	Sibsagar RC	143	Agriculture	7164.56	8238.03
				Built-Up	17.23	
				Other	1056.24	
31	Sonitpur	Chariduar RC	41	Agriculture	455.45	603.63
				Built-Up	9.09	
				Other	139.09	
		Dhekiajuli RC	244	Agriculture	4020.91	6624.51
				Built-Up	28.18	
				Other	2575.43	
		Na-Duar RC	111	Agriculture	3112.39	5216.32
				Built-Up	4.41	
				Other	2099.52	
		Tezpur RC	48	Agriculture	777.31	3161.15
				Built-Up	2.52	
				Other	2381.31	
32	Tinsukia	Tinsukia RC	56	Agriculture	833.91	1118.02
				Built-Up	20.57	
				Other	263.53	
33	Udalguri	Dalgaon (PT) RC	28	Agriculture	422.42	511.62
				Other	89.21	
		Dhekiajuli (PT) RC	26	Agriculture	214.01	269.59
				Other	55.58	
		Harisinga RC	78	Agriculture	576.37	902.40
				Built-Up	1.15	
				Other	324.87	
		Kalaigaon RC	101	Agriculture	2069.27	2893.90
				Built-Up	4.06	
				Other	820.57	
		Khoirabari RC	88	Agriculture	974.56	1401.72
				Built-Up	8.73	
				Other	418.43	
		Mangaldoi (PT) RC	37	Agriculture	1052.32	1186.98
				Other	134.66	
		Udalguri RC	122	Agriculture	1178.56	1597.04
				Built-Up	2.82	
				Other	415.66	

