

Executive Summary of flood inundation report on 17th 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 17th July 2020 due to incessant heavy rainfall. NRSC has analyzed RADERSAT-2 SAR and RCM Constellation satellite data of 17th 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, **5834** Villages were under flood inundation in **18** districts of Assam covering **168262.60Ha.** total land out of which **2396.98 Ha** settlement areas and **128714.9 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	35	Agriculture	659.15	1626.77
				Others	98.83	
		Goreswar	14	Agriculture	119.53	
				Built-Up	0.02	
				Others	26.45	
		Jalah	3	Agriculture	6.53	
				Others	4.04	
		Sarupeta	26	Agriculture	238.14	
				Others	41.15	
		Tamulpur	15	Agriculture	335.71	
				Built-Up	15.52	
				Others	81.71	
2	BARPETA	Baghbor RC	63	Agriculture	2420.47	18424.47
				Built-Up	126.90	
				Others	315.82	
		Bajali RC	74	Agriculture	794.13	
				Built-Up	1.04	
				Others	146.03	
		Barnagar (PT) RC	18	Agriculture	109.10	
				Others	18.98	
		Barpeta RC	162	Agriculture	5141.87	
				Built-Up	45.27	
				Others	538.56	
		Chengar RC	30	Agriculture	544.17	
				Others	75.99	
		Kalgachia RC	60	Agriculture	1094.03	
				Others	317.07	
		Sarthebari RC	165	Agriculture	3853.69	
				Built-Up	11.66	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
		Sarupeta RC	86	Others	506.76	
				Agriculture	1960.58	
				Built-Up	15.32	
				Others	387.05	
3	BISWANATH	Gohpur RC	71	Agriculture	1071.37	4109.62
				Built-Up	0.54	
				Others	822.12	
		Helem RC	42	Agriculture	1477.76	
				Built-Up	5.6	
				Others	732.23	
4	BONGAIGAON	Bijni RC	33	Agriculture	309.29	3883.05
				Others	73.91	
		Boitamari RC	59	Agriculture	407.32	
				Built-Up	4.66	
				Others	160.63	
		Bongaigaon RC	8	Agriculture	48.08	
				Others	22.33	
		Sidli (Part) RC	12	Agriculture	59.28	
				Others	41.3	
		Srijangram RC	97	Agriculture	2304.71	
				Built-Up	24.66	
				Others	426.88	
5	CHARAIDEO	Mahmora RC	67	Agriculture	1735.05	3671.55
				Others	304.74	
		Sonari RC	112	Agriculture	1443.94	
				Others	187.76	
6	DARRANG	Kalaigaon	17	Agriculture	146.31	8086.45
				Built-Up	1.21	
				Others	46.71	
		Khoirabari	21	Agriculture	163.80	
				Others	67.60	
		Mangaldoi	16	Agriculture	153.72	
				Built-Up	0.14	
				Others	76.64	
		Pathorighat	81	Agriculture	971.20	
				Built-Up	39.70	
				Others	948.17	
		Sipajhar	158	Agriculture	3606.58	
Built-Up	68.56					
Others	1796.11					

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
7	DHUBRI	Agamoni RC	2	Agriculture	1.45	16426.20
		Bagibari RC	117	Agriculture	2129.75	
				Built-Up	35.32	
				Others	695.86	
		Bilasipara (PT) RC	89	Agriculture	1762.08	
				Built-Up	7.08	
				Others	232.42	
		Chapar (PT) RC	128	Agriculture	2461.12	
				Built-Up	151.31	
				Others	594.83	
		Dhubri (PT) RC	165	Agriculture	4517.83	
				Built-Up	337.55	
				Others	1796.81	
		Golokganj (PT) RC	79	Agriculture	1163.39	
Built-Up	34.73					
Others	502.25					
Gossaigaob (PT) RC	1	Agriculture	0.48			
		Others	1.93			
8	GOALPARA	Balijana RC	104	Agriculture	2141.49	16441.26
				Built-Up	33.32	
				Others	1009.82	
		Dudhnai RC	23	Agriculture	86.09	
				Others	22.92	
		Lakhipur RC	159	Agriculture	5220.05	
				Built-Up	398.36	
				Others	1569.33	
		Matia RC	98	Agriculture	3302.57	
				Built-Up	10.23	
				Others	849.32	
		Rangjuli RC	49	Agriculture	1418.87	
Others	378.90					
9	GOLAGHAT	Boikakhat RC	71	Agriculture	3910.46	16372.63
				Built-Up	20.27	
				Others	756.54	
		Dergaon RC	88	Agriculture	1188.42	
				Built-Up	26.66	
				Others	608.20	
		Golaghat RC	146	Agriculture	4881.26	
				Built-Up	17.19	
				Others	1187.09	
		Khumtai RC	85	Agriculture	2157.18	
				Built-Up	28.17	
				Others	463.79	
Morangi RC	35	Agriculture	445.82			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)		
		Morangi RC	35	Built-Up	3.10	16372.63		
				Others	54.46			
		Sarupathar RC	43	Agriculture	478.21			
				Built-Up	10.45			
		Others	135.36					
10	JORHAT	Jorhat East RC	76	Agriculture	1291.95	15696.14		
				Others	469.77			
		Jorhat West RC	127	Agriculture	3263.81			
				Built-Up	44.96			
				Others	1018.92			
		Mariani RC	52	Agriculture	420.81			
				Others	123.62			
		Teok RC	144	Agriculture	3005.47			
				Built-Up	10.81			
				Others	641.23			
		Titabor RC	156	Agriculture	4255.13			
				Built-Up	3.09			
Others	1146.57							
11	KAMRUP METRO	Azara	23	Agriculture	181.39	1804.31		
				Built-Up	43.91			
				Others	787.81			
		Chandrapur	17	Agriculture	256.28			
				Built-Up	8.11			
				Others	208.15			
		Dispur	7	Agriculture	41.37			
				Built-Up	73.14			
				Others	77.23			
		Guwahati	6	Agriculture	0.02			
				Built-Up	0.01			
				Others	67.84			
		North Guwahati	3	Built-Up	1.31			
				Others	13.21			
Sonapur	3	Agriculture	42.88					
		Others	1.64					
	KAMRUP RURAL	Boko RC	56	Agriculture	899.08	19628.77		
				Others	311.39			
		Chamaria RC	61	Agriculture	3157.49			
				Built-Up	29.29			
				Others	635.49			
		Chhaygaon RC	34	Agriculture	506.88			
				Built-Up	27.25			
				Others	204.37			
		Goeswar (PT) RC	24	Agriculture	161.43			
				Others	34.95			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
12		Goroimari RC	57	Agriculture	1206.47	19628.77
				Built-Up	9.52	
				Others	309.79	
		Hajo RC	103	Agriculture	3485.28	
				Built-Up	52.57	
				Others	716.41	
		Kamalpur RC	96	Agriculture	724.31	
				Built-Up	1.17	
				Others	91.65	
		Koya RC	22	Agriculture	317.28	
				Others	24.27	
		Nagarbera RC	37	Agriculture	2970.92	
				Built-Up	44.84	
				Others	1422.73	
		North Guwahati (PT) RC	26	Agriculture	363.64	
				Built-Up	16.71	
				Others	157.48	
		Palashbari RC	71	Agriculture	551.68	
Built-Up	18.35					
Others	509.82					
Rangia RC	52	Agriculture	498.44			
		Built-Up	0.27			
		Others	167.54			
13	LAKHIMPUR	Bihpuria	109	Agriculture	1896.85	9697.33
				Built-Up	2.32	
				Others	362.42	
		Dhakuakhana	56	Agriculture	975.53	
				Built-Up	0.05	
				Others	275.84	
		Naobaicha	47	Agriculture	262.94	
				Others	85.84	
		Narayanpur	119	Agriculture	1168.85	
				Built-Up	0.05	
				Others	347.79	
		North Lakhimpur	144	Agriculture	2041.90	
				Built-Up	0.23	
				Others	624.78	
		Subansiri(Part)	54	Agriculture	1292.25	
Built-Up	2.51					
Others	357.18					
14	MAJULI	Majuli RC	119	Agriculture	2232.28	2661.18
				Built-Up	26.78	
				Others	402.11	
	IBRAINA		45	Agriculture	370.79	3329.65

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
15			45	Others	86.21	
		Barkhetri RC	90	Agriculture	1237.53	
				Built-Up	2.15	
				Others	379.00	
		Ghograpar (PT) RC	14	Agriculture	60.91	
				Others	14.64	
		Nalbari RC	19	Agriculture	87.69	
				Others	2.64	
		Pachim Nalbari RC	47	Agriculture	894.95	
				Others	48.92	
		Tihu(PT) RC	20	Agriculture	128.33	
Others	15.90					
16	MANKACHAR SALMARA-	Mankachar RC	82	Agriculture	1800.19	5964.64
				Built-Up	294.97	
				Others	662.22	
		South Salmara RC	72	Agriculture	1745.70	
				Built-Up	175.55	
				Others	1286.01	
17	SIBSAGAR	Amguri RC	110	Agriculture	3532.36	20114.36
				Built-Up	5.36	
				Others	715.72	
		Dimow RC	123	Agriculture	5165.54	
				Built-Up	21.88	
				Others	2212.30	
		Nazira RC	106	Agriculture	1652.97	
				Built-Up	0.50	
				Others	106.53	
		Sibsagar RC	138	Agriculture	5935.80	
				Built-Up	2.03	
				Others	763.36	
18	UDALGURI	Harisinga RC	4	Agriculture	3.11	305.43
				Others	7.60	
		Kalaigaon RC	11	Agriculture	52.33	
				Built-Up	0.65	
				Others	23.86	
		Khoirabari RC	25	Agriculture	132.02	
Built-Up	2.02					
Others	83.84					

