

Executive Summary of flood inundation report on 25th 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 25th July 2020 due to incessant heavy rainfall. NRSC has analyzed KONTSAT-5 COSI SAR(C-Band) satellite data of 25th 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, **3,536** Villages were under flood inundation in **09** districts of Assam covering **1,40,147.73** Ha. total land out of which **3,656.10** Ha settlement areas and **77402.45** 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	79	Agriculture	1689.22	2482.04
				Other	429.55	
		Sarupeta	19	Agriculture	273.35	
				Built-Up	25.95	
				Other	63.97	
2	Barpeta	Baghbor RC	77	Agriculture	4786.28	27791.12
				Built-Up	178.52	
				Other	1105.16	
		Barnagar (PT) RC	117	Agriculture	1737.83	
				Built-Up	3.83	
				Other	991.30	
		Barpeta RC	165	Agriculture	6688.43	
				Built-Up	267.67	
				Other	2746.40	
		Chengar RC	12	Agriculture	404.41	
				Built-Up	0.19	
				Other	63.19	
		Kalgachia RC	95	Agriculture	3364.59	
				Built-Up	1.45	
				Other	1503.12	
		Sarthebari RC	23	Agriculture	825.75	
				Other	286.05	
		Sarupeta RC	64	Agriculture	2245.01	
				Other	591.93	
		3	Bongaigaon	Bijni RC	114	
Built-Up	8.15					
Other	879.27					
Boitamari RC	97			Agriculture	1143.07	
				Built-Up	67.83	
				Other	1379.07	
Bongaigaon RC	108			Agriculture	846.01	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
3	Bongaigaon	Bongaigaon RC	108	Built-Up	35.30	15514.92
				Other	669.99	
				Agriculture	335.26	
		Sidli (Part) RC	35	Built-Up	2.37	
				Other	198.47	
				Agriculture	5192.12	
		Srijangram RC	252	Built-Up	116.93	
				Other	3174.99	
				Agriculture	541.99	
4	Chirang	Bengtol RC	40	Built-Up	15.87	6460.35
				Other	581.22	
				Agriculture	1778.34	
		Bijni RC	195	Built-Up	9.63	
				Other	1027.45	
				Agriculture	1370.14	
		Sidli (PT) RC	144	Built-Up	34.44	
				Other	1101.27	
				Agriculture	27.39	
5	Dhubri	Agamoni RC	4	Built-Up	0.10	27793.31
				Other	3.80	
				Agriculture	3209.53	
		Bagibari RC	140	Built-Up	123.05	
				Other	2511.68	
				Agriculture	2875.73	
		Bilasipara (PT) RC	110	Built-Up	73.62	
				Other	1168.52	
				Agriculture	2180.40	
		Chapar (PT) RC	159	Built-Up	341.45	
				Other	2434.80	
				Agriculture	3502.64	
		Dhubri (PT) RC	170	Built-Up	533.01	
				Other	5709.06	
				Agriculture	1044.07	
		Golokganj (PT) RC	82	Built-Up	42.84	
				Other	2011.29	
				Agriculture	0.01	
Gossaigaob (PT) RC	2	Other	0.31			
		Agriculture	3342.09			
		Built-Up	87.82			
6	Goalpara	Balijana RC	164	Other	3067.58	36044.99
				Built-Up	87.82	
				Agriculture	1941.36	
		Dudhnai RC	76	Built-Up	10.05	
				Other	851.69	
				Agriculture	5538.27	
		Lakhipur RC	187	Built-Up	10.05	
				Other	851.69	
				Agriculture	5538.27	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
6	Goalpara	Lakhipur RC	187	Built-Up	725.46	36044.99
				Other	4909.45	
				Agriculture	5303.90	
		Matia RC	162	Built-Up	40.64	
				Other	5292.83	
				Agriculture	2645.47	
		Rangjuli RC	142	Built-Up	5.03	
				Other	2283.35	
				Agriculture	1136.97	
7	Kamrup Rural	Boko RC	77	Built-Up	1.16	14525.46
				Other	676.85	
				Agriculture	3970.48	
		Chamaria RC	63	Built-Up	56.47	
				Other	1770.64	
				Agriculture	426.55	
		Goroimari RC	22	Built-Up	8.71	
				Other	238.48	
				Agriculture	2483.86	
		Nagarbera RC	39	Built-Up	66.30	
				Other	3688.99	
				Agriculture	37.29	
8	Kokrajhar	Kokrajhar	12	Other	14.14	51.44
				Agriculture	37.29	
9	Salmara Mankachar	Mankachar RC	100	Agriculture	1026.50	9484.11
				Built-Up	470.46	
				Other	2949.01	
		South Salmara RC	189	Agriculture	2022.03	
				Built-Up	301.80	
				Other	2714.31	

