

Executive Summary of flood inundation report on 28nd May 2020

National Remote Sensing Centre, Hyderabad is conducting near real time flood mapping project for Assam using Satellite data. Flood was reported in Assam during 02 June 2020 due to heavy incessant rainfall. NRSC has analyzed Resourcesat-2 and MODIS Terra satellite data of 28 May 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 GIS environment to generate detail flood inundation information district wise at 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 accusation Villages were under flood inundation in **26** districts of Assam covering **11996**Ha settlement areas and **423202** Ha Agricultural land. Barpeta, Biswanath, Cachar, Charaideo, Darrang, Dhemaji, Dibrugarh, Goalpara, Golaghat, Hailakandi, Hojai, Jorhat, Kamrup Metro, Kamrup Roral, Karbi angling (Diphu), Karimganj, Lakhimpur, Majuli, Morigaon, Nagaon, Salmora Mancachar, Sibsagar, Sonitpur, Tinsukia, Udalguri and West Karbi along district were reported to be worst affected. 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	Barpeta	Baghbor	7	Agriculture	286.60	392.46
				Built-Up	106.4	
2	Biswanath	Biswanath	247	Agriculture	8999.51	29590.59
				Built-Up	405.80	
				Other	1854.79	
		Gohpur	149	Agriculture	5579.22	
				Built-Up	24.88	
				Other	2916.03	
	Helem	162	Agriculture	7365.56		
			Built-Up	19.20		
			Other	2432.55		
3	Cachar	Katigora	165	Agriculture	4848.66	16261.74
				Built-Up	59.46	
				Other	4864.25	
		Lakhipur	1	Other	1.49	
		Silchar	65	Agriculture	1576.51	
				Built-Up	176.83	
				Other	1785.50	
		Sonai	96	Agriculture	1687.25	
				Built-Up	170.50	
Other	1091.20					
4	Charaideo	Mahmora	102	Agriculture	5851.77	20716.63
				Built-Up	36.12	
				Other	2777.56	
		Sonari RC	203	Agriculture	9004.37	
				Built-Up	27.25	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
	Charaideo	Sonari RC	203	Other	4312.78	20716.63
5	Darrang	Dalgaon	88	Agriculture	1492.34	2470.58
				Built-Up	25.49	
				Other	930.76	
		Mangaldoi	4	Agriculture	0.63	
				Other	21.4	
6	Dhemaji	Dhakuakhana	50	Agriculture	1551.85	34124.65
				Other	634.01	
		Dhemaji	177	Agriculture	6634.26	
				Built-Up	49.50	
				Other	4400.18	
		Jonai RC	24	Agriculture	1713.04	
				Other	2893.15	
		Sissibargaon	207	Agriculture	5651.50	
				Built-Up	77.20	
				Other	5354.05	
		Subansiri	72	Agriculture	4115.03	
				Built-Up	46.31	
				Other	1004.55	
7	Dibrugarh	Chabua	100	Agriculture	2933.89	61069.09
				Built-Up	112.82	
				Other	1820.17	
		Dibrugarh East	119	Agriculture	3447.94	
				Built-Up	562.94	
				Other	751.50	
		Dibrugarh West	159	Agriculture	7636.08	
				Built-Up	178.80	
				Other	4189.52	
		Jaipur RF	1	Other	22.39	
		Moran	294	Agriculture	10795.59	
				Built-Up	133.20	
				Other	2225.39	
		Naharkatia	147	Agriculture	6168.31	
				Built-Up	20.90	
Other	1759.43					
Tengakhat	217	Agriculture	6472.98			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
7	Dibrugarh	Tengakhat	217	Built-Up	171.50	61069.09
				Other	1808.51	
		Tingkhang	202	Agriculture	7445.13	
				Built-Up	25.19	
				Other	2386.91	
8	Goalpara	Balijana	71	Agriculture	1924.72	22041.75
				Built-Up	29.8	
				Other	2337.41	
		Dudhnai	8	Agriculture	23.37	
				Other	109.08	
		Lakhipur	99	Agriculture	2674.66	
				Built-Up	428.39	
				Other	5456.88	
		Matia	86	Agriculture	2069.48	
				Built-Up	8.3	
				Other	3991.92	
		Rangjuli	61	Agriculture	1041.95	
				Built-Up	7.1	
				Other	1938.67	
		9	Golaghat	Boikakhat	37	
Other	15.86					
	976.02					
Dergaon	99			Agriculture	2095.63	
				Built-Up	90.41	
				Other	801.75	
Golaghat	158			Agriculture	6885.24	
				Built-Up	109.71	
				Other	2498.53	
Khumtai	69			Agriculture	2851.73	
				Built-Up	108.78	
				Other	1199.47	
Morangi	49			Agriculture	1545.37	
				Built-Up	89.10	
				Other	411.93	
Sarupathar	91	Agriculture	16946.12			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
9	Golaghat	Sarupathar	91	Built-Up	408.13	47211.75
				Other	8259.67	
10	Hailakandi	Algapur	63	Agriculture	804.47	11671.05
				Built-Up	20.89	
				Other	2648.56	
		Hailakandi	80	Agriculture	1577.57	
				Built-Up	236.87	
				Other	2327.28	
		Katlichara	34	Agriculture	348.45	
				Built-Up	21.48	
				Other	597.12	
		Lala	72	Agriculture	1507.26	
				Built-Up	61.82	
				Other	1519.24	
11	Hojai	Doboka	98	Agriculture	8986.41	63713.92
				Built-Up	13.95	
				Other	4958.97	
		Hojai	134	Agriculture	13470.7	
				Built-Up	232.6	
				Other	7902.87	
		Lanka	167	Agriculture	18264.5	
				Built-Up	938.59	
				Other	9852.08	
12	Jorhat	Jorhat East	101	Agriculture	4141.57	46827.92
				Built-Up	232.24	
				Other	3758.43	
		Jorhat West	144	Agriculture	6483.63	
				Built-Up	112.95	
				Other	3425.61	
		Mariani	73	Agriculture	2504.18	
				Built-Up	76.23	
				Other	1066.12	
		Teok	171	Agriculture	9393.35	
				Built-Up	136.27	
				Other	5766.21	

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12	Jorhat	Titabor	67	Agriculture	7471.00	46827.92
				Built-Up	13.40	
				Other	2246.73	
13	Kamrup (Metro)	Chandrapur	16	Agriculture	167.86	2423.46
				Built-Up	49.05	
				Other	762.69	
		Sonapur	45	Agriculture	303.52	
				Built-Up	68.65	
				Other	1071.66	
14	Kamrup (Rural)	Boko	54	Agriculture	929.3	6815.92
				Built-Up	11.62	
				Other	768.27	
		Chamaria	21	Agriculture	477.44	
				Built-Up	10.83	
				Other	535.73	
		Goroimari	1		27.9	
		Nagarbera	27	Agriculture	1222.81	
				Built-Up	22.22	
Other	2812.44					
15	Karbi Anglong (Diphu)	Diphu	11	Agriculture	1506.3	37639
				Built-Up	119.68	
				Other	1648.19	
		Phuloni	7	Agriculture	26705.5	
				Other	7251.53	
		Silonijan	13	Agriculture	190.55	
Other	217.29					
16	Karimganj	Badarpur	77	Agriculture	656.41	22926.6
				Built-Up	125.83	
				Other	2745.87	
		Karimganj	166	Agriculture	2898.49	
				Built-Up	489.85	
				Other	2415.99	
		Nilambazar	193	Agriculture	3196.84	
				Built-Up	270.4	
				Other	4366.03	
Patharkandi	52	Agriculture	1263.56			

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16	Karimganj	Patharkandi	52	Built-Up	64.14	22926.6
				Other	1593.16	
		Ramkrishna Nagar	90	Agriculture	705.64	
				Other	2134.76	
17	Lakhimpur	Bihpuria	181	Agriculture	9272.37	48372.25
				Built-Up	75.49	
				Other	3109.64	
		Dhakuakhana	24	Agriculture	335.90	
				Other	214.58	
		Kadam	110	Agriculture	3297.39	
				Built-Up	16.78	
				Other	1200.94	
		Naobaicha	129	Agriculture	5358.11	
				Built-Up	0.99	
				Other	2851.06	
		Narayanpur	105	Agriculture	9084.48	
				Built-Up	13.88	
				Other	1755.05	
		North Lakhimpur	183	Agriculture	8610.52	
				Built-Up	190.66	
Other	2984.43					
18	Majuli	Majuli	15	Agriculture	2735.31	3671.38
				Other	936.07	
19	Morigaon	Bhuragaon	15	Agriculture	188.51	29610.4
				Other	95.22	
		Laharighat	34	Agriculture	588	
				Built-Up	9.95	
				Other	374.88	
		Marigaon	183	Agriculture	9421.62	
				Built-Up	351.61	
				Other	4108.73	
		Mayong	144	Agriculture	6824.88	
				Built-Up	34.82	
Other	3524.92					
Mikirbheta	74	Agriculture	3094.05			
		Built-Up	10.27			

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
19	Morigaon	Mikirbheta	74	Other	983.7	29610.4
20	Nagaon	Dhing	44	Agriculture	957.45	52456.2
				Built-Up	21.12	
				Other	2489.72	
		Kalibor	64	Agriculture	2749.73	
				Built-Up	266.56	
				Other	309.01	
		Kampur	163	Agriculture	9615.16	
				Built-Up	47.48	
				Other	9502.79	
		Nagaon	269	Agriculture	7430.97	
				Built-Up	517.01	
				Other	2739.65	
		Raha	148	Agriculture	8349.66	
				Built-Up	35.15	
				Other	5739.28	
Samaguri	63	Agriculture	1372.59			
		Other	312.65			
21	Salmara Mankachar	South Salmara	17	Agriculture	345.21	725.34
				Built-Up	1.3	
				Other	378.84	
22	Sibsagar	Amguri	127	Agriculture	7912.12	60819.18
				Built-Up	67.73	
				Other	4412.59	
		Dimow	197	Agriculture	12268.24	
				Built-Up	183.43	
				Other	7795.20	
		Nazira	125	Agriculture	6989.02	
				Built-Up	73.42	
				Other	3082.10	
Sibsagar	166	Agriculture	12240.54			
		Built-Up	290.29			
		Other	5504.50			
23	Sonitpur	Chariduar	221	Agriculture	11466.5	
				Built-Up	426	
				Other	4618.28	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
23	Sonitpur	Dhekiajuli	376	Agriculture	15791.6	59042.56
				Built-Up	233.84	
				Other	6629.62	
		Na-Duar	168	Agriculture	10395.4	
				Built-Up	51.29	
				Other	3153.79	
		Tezpur	190	Agriculture	3224.29	
				Built-Up	274.96	
				Other	2778.08	
24	Tinsukia	Doomdooma	227	Agriculture	6477.34	22078.51
				Built-Up	63.67	
				Other	3729.06	
		Margherita	50	Agriculture	1872.58	
				Built-Up	26.75	
				Other	933.28	
		Sadiya	3	Agriculture	8.72	
				Other	10.73	
		Tinsukia	202	Agriculture	6667.29	
				Built-Up	355.46	
				Other	1933.63	
		25	Udalguri	Dalgaon	38	
Built-Up	5.74					
Other	458.36					
Dhekiajuli	40			Agriculture	1162.28	
				Built-Up	0.02	
				Other	309.28	
Udalguri	179			Agriculture	6762.27	
				Built-Up	44.14	
				Other	2028.62	
26	Weast Karbi Anglong	Donka	42	Agriculture	9235.52	15506.7
				Built-Up	262.92	
				Other	6022.53	

