

## *Executive Summary of flood inundation report on 21<sup>st</sup> June 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 21 June 2020 due to heavy incessant rainfall. NRSC has analyzed Sentinel-1 SAR satellite data of 21 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 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 **3359** Villages were under flood inundation in **11** districts of Assam covering **629.11** Ha. settlement areas and **72220.19** Ha. Agricultural land. Biswanath, Charaideo, Dhemaji, Dibrugarh, Golaghat, Karbi Anglong, Lakhimpur, Majuli, Sibsagar, Sonitpur, and Jorhat, 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	Biswanath	Gohpur	82	Agriculture	1694.62	3242.297
				Built-Up	0.61	
				Other	1547.06	
		Helem	51	Agriculture	1121.68	2322.537
				Built-Up	9.84	
				Other	1191.02	
2	Charaideo	Mahmora	113	Agriculture	2066.15	2863.614
				Built-Up	6.61	
				Other	790.86	
		Sonari	99	Agriculture	1307.22	1943.834
				Built-Up	2.87	
				Other	633.74	
3	Dhemaji	Dhakuakhana (Part)	14	Agriculture	209.42	328.3261
				Other	118.90	
4	Dibrugarh	Dibrugarh West	56	Agriculture	838.34	1981.445
				Built-Up	0.00	
				Other	1143.11	
		Moran	293	Agriculture	3003.32	4248.098
				Built-Up	37.32	
				Other	1207.46	
		Tingkhong	61	Agriculture	372.44	580.6744
				Built-Up	0.26	
				Other	207.98	
5	Golaghat	Boiakhat	40	Agriculture	590.54	963.1537
				Built-Up	2.68	
				Other	369.93	

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
5	Golaghat	Dergaon	97	Agriculture	1165.46	1870.22
				Built-Up	22.23	
				Other	682.53	1870.22
		Golaghat	172	Agriculture	6284.41	9540.875
				Built-Up	209.27	
				Other	3047.19	
		Khumtai	71	Agriculture	999.77	1451.82
				Built-Up	5.01	
				Other	447.04	
		Morangi	52	Agriculture	562.08	738.701
				Built-Up	14.79	
				Other	161.83	
		Sarupathar	100	Agriculture	3207.37	5280.297
				Built-Up	58.62	
				Other	2014.31	
6	Karbi Anglong	Diphu	9	Agriculture	208.49	569.9955
				Built-Up	0.21	
				Other	361.29	
		Silonijan	15	Agriculture	129.23	354.2669
				Other	225.04	
7	Lakhimpur	Bihpuria	170	Agriculture	2159.28	3768.274
				Built-Up	9.03	
				Other	1599.97	
		Dhakuakhana	79	Agriculture	295.85	503.7143
				Other	207.86	
		Naobaicha	95	Agriculture	664.49	1397.495
				Other	733.01	
		Narayanpur	190	Agriculture	1863.07	3153.286
				Built-Up	10.79	
				Other	1279.43	
		North Lakhimpur	168	Agriculture	2782.89	3975.15
				Built-Up	1.52	
				Other	1190.74	
		Subansiri (Part)	41	Agriculture	122.68	391.5318
				Built-Up	0.66	
Other	268.19					
8	Majuli	Majuli	98	Agriculture	1023.27	1354.594
				Built-Up	3.15	
				Other	328.18	
9	Sivsagar	Amguri	117	Agriculture	4785.10	7134.518
				Built-Up	22.70	
				Other	2326.71	
		Dimow	190	Agriculture	7502.59	11810.41

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)	Total (Ha)
9	Sivsagar	Dimow	190	Built-Up	49.20	11810.41
				Other	4258.62	
		Nazira	130	Agriculture	3729.13	5150.653
				Built-Up	8.93	
				Other	1412.59	
		Sibsagar	150	Agriculture	8104.34	10976.49
				Built-Up	14.60	
				Other	2857.54	
		10	Sonitpur	Chariduar	1	Agriculture
Other	0.11					
Na-Duar	2			Agriculture	0.33	0.602195
				Other	0.27	
11	Jorhat	Jorhat East	88	Agriculture	1284.56	2412.76
				Built-Up	1.10	
				Other	1127.10	
		Jorhat West	142	Agriculture	3027.28	4591.80
				Built-Up	61.15	
				Other	1503.37	
		Mariani	55	Agriculture	626.10	981.77
				Built-Up	6.83	
				Other	348.84	
		Teok	147	Agriculture	5187.03	7747.97
				Built-Up	50.74	
				Other	2510.20	
		Titabor	170	Agriculture	5301.61	7220.16
				Built-Up	18.41	
				Other	1900.14	

