



**Bulletin
No. 46**

**Events Date:
15-Nov-2020**

**Issued on:
16-Nov-2020**



MONITORING PADDY RESIDUE BURNING IN NORTH INDIA USING SATELLITE REMOTE SENSING DURING 2020



Prepared by:

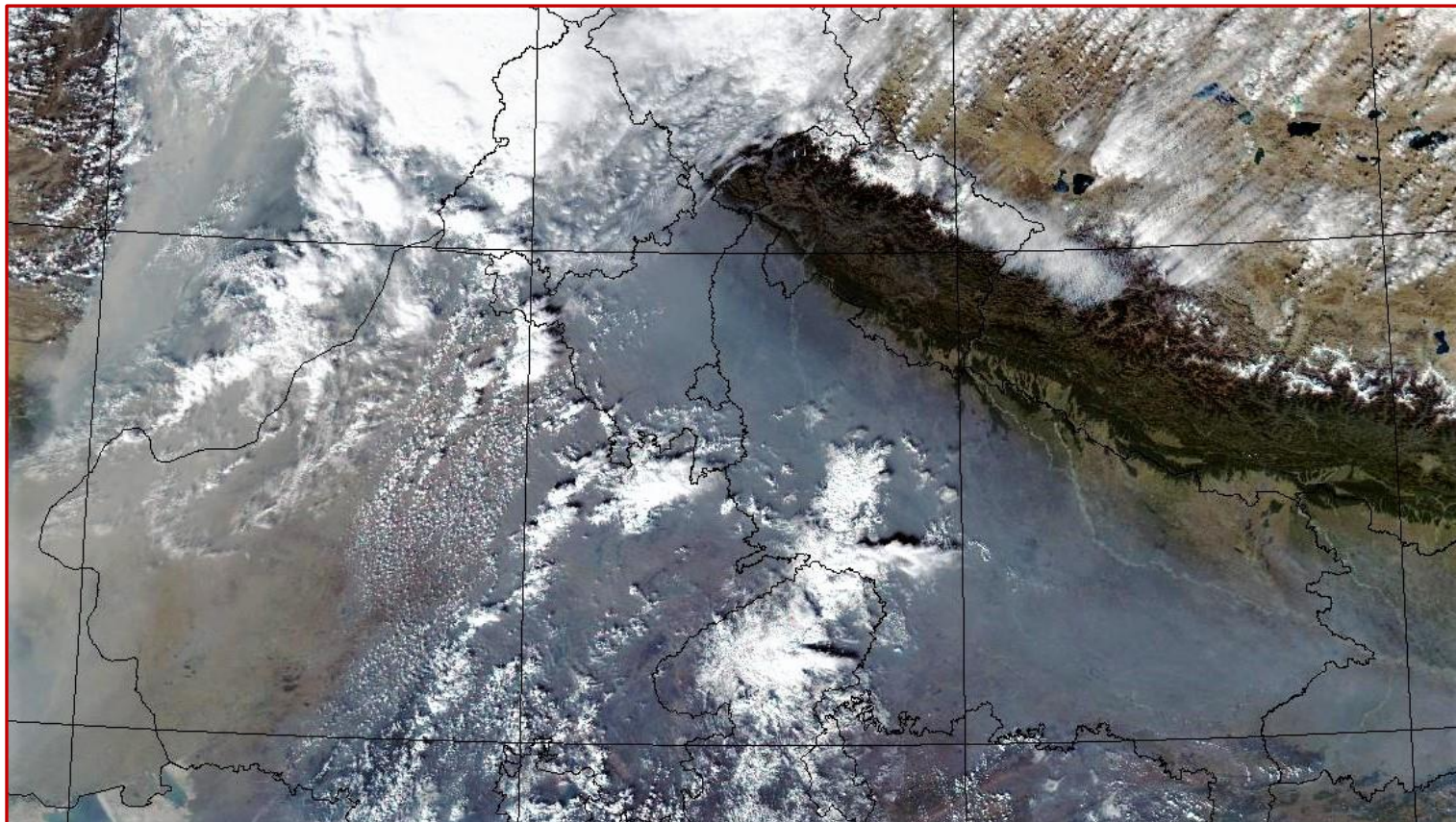
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

<http://creams.iari.res.in>

Highlights for 15-November-2020

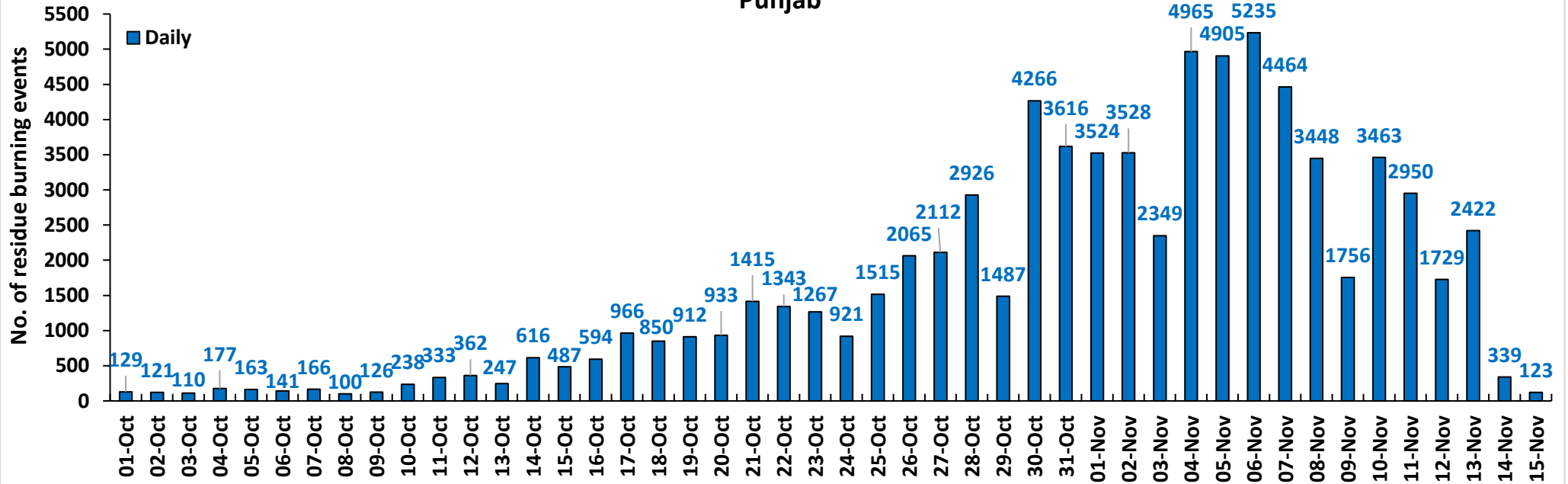
- Satellites detected **390** residue burning events in the three study States on **15-Nov-2020**.
- The state wise events detected on **15-Nov-2020** were **123** in Punjab, **91** in Haryana and **176** in UP.
- The number of events has decreased from **623** on **14-Nov-2020** to **390** on **15-Nov-2020** in the three states.
- Bathinda in Punjab, Jind in Haryana and Jhansi in UP reported the highest number of events on **15-Nov-2020**.
- Total **83756** burning events were detected in the three States between **01-Oct-2020** and **15-Nov-2020**, which are distributed as **75904**, **5000** and **2852** in Punjab, Haryana and UP, respectively.
- In Haryana and UP, the cumulative number of burning events between **01-Oct** and **15-Nov 2020** were lower than in **2019**, while in Punjab the cumulative number of events were more than in **2019**.

[AQUA \(MODIS\) Satellite image of North India Acquired on 15-Nov-2020 at 13:35 IST by IARI Ground Station](#)

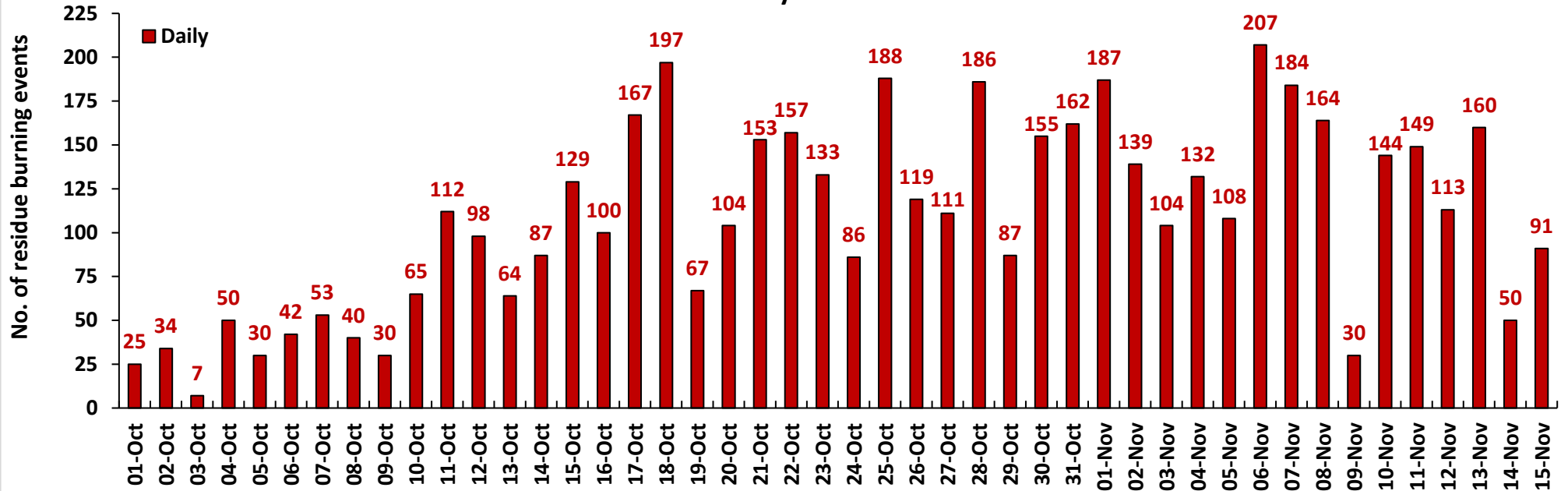


Temporal distribution of residue burning events for the three study States in 2020.

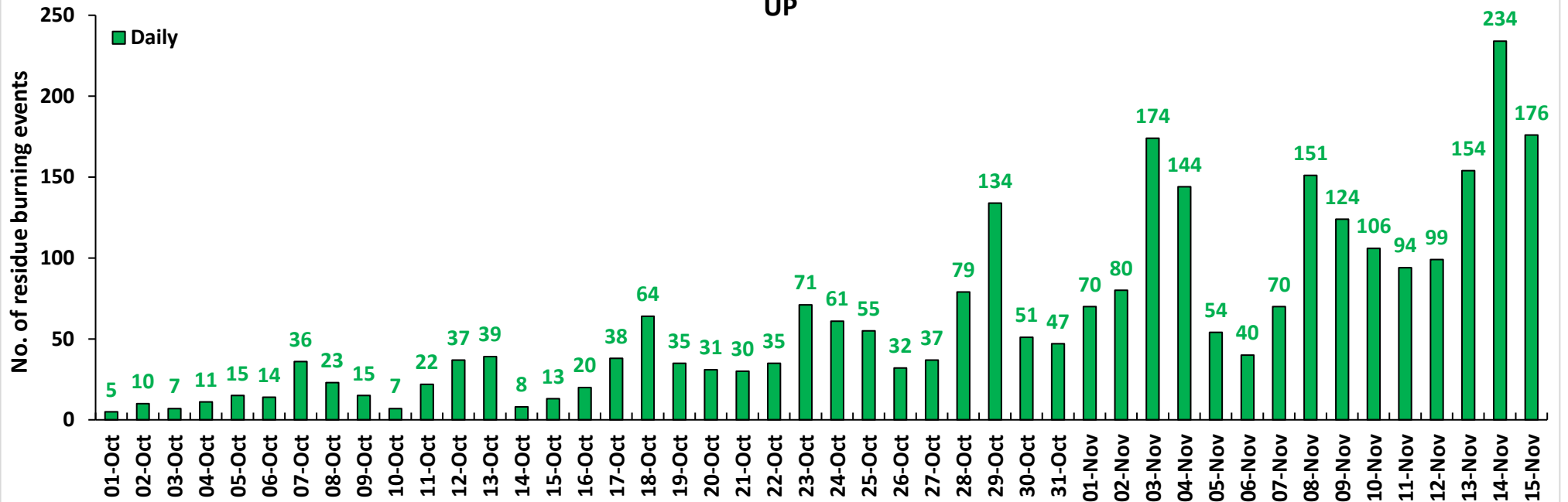
Punjab



Haryana

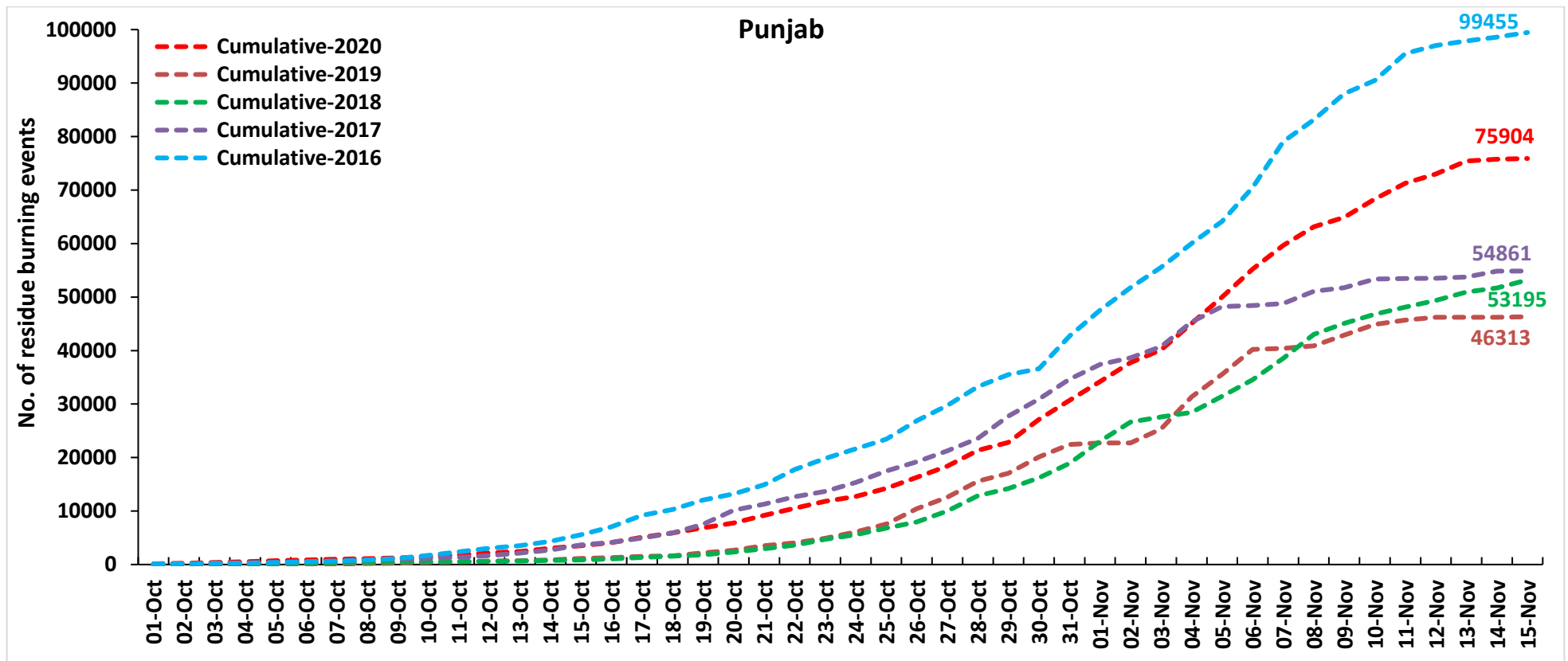


UP

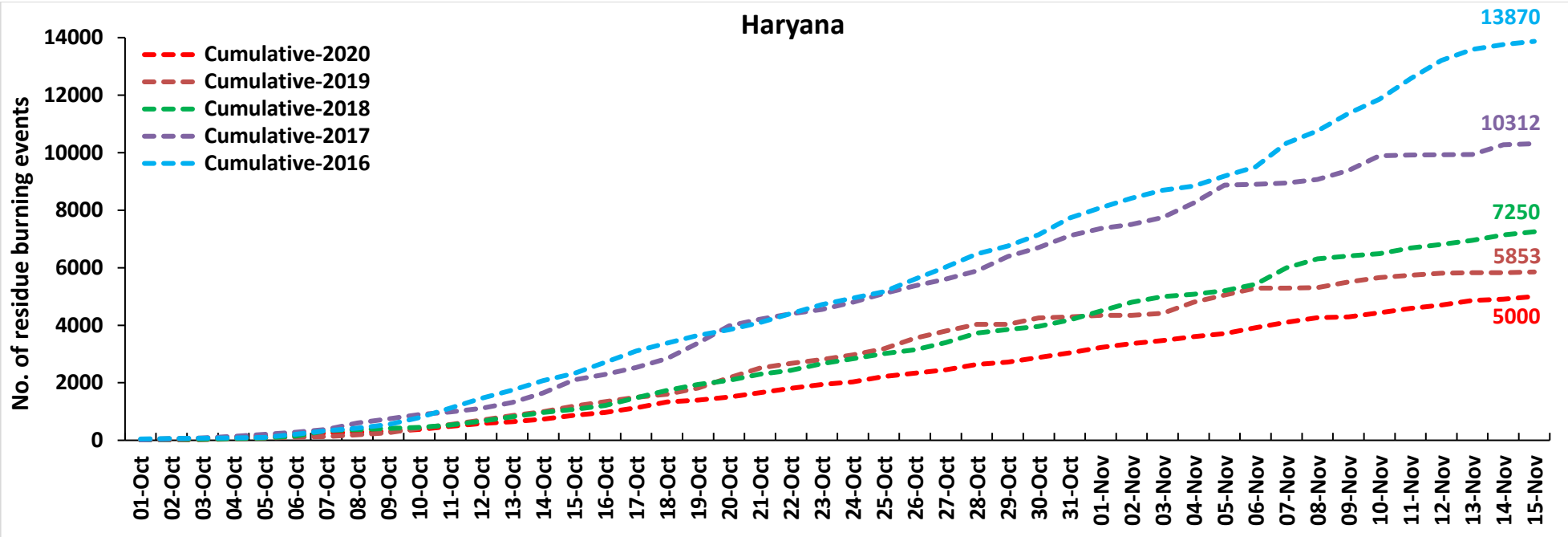


Comparison of residue burning events in current year (2020) with previous years (2019, 2018, 2017 & 2016) for the three study States

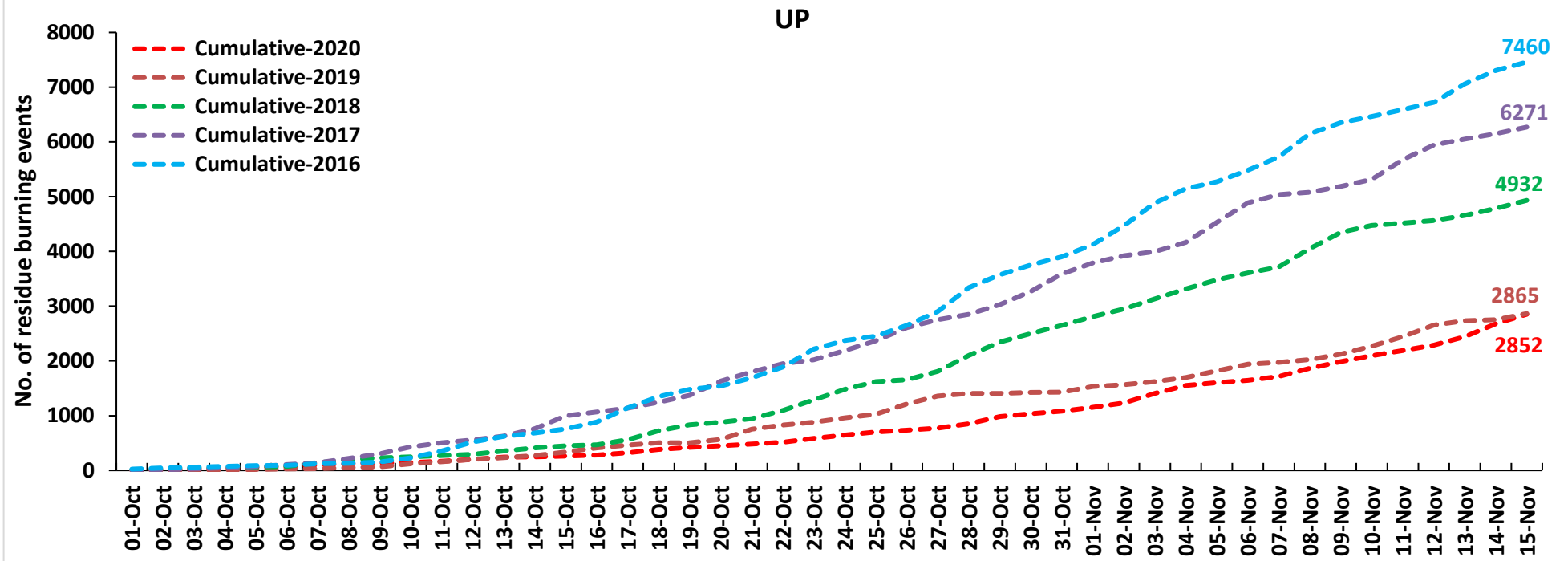
(01-Oct to 15-Nov)



Haryana

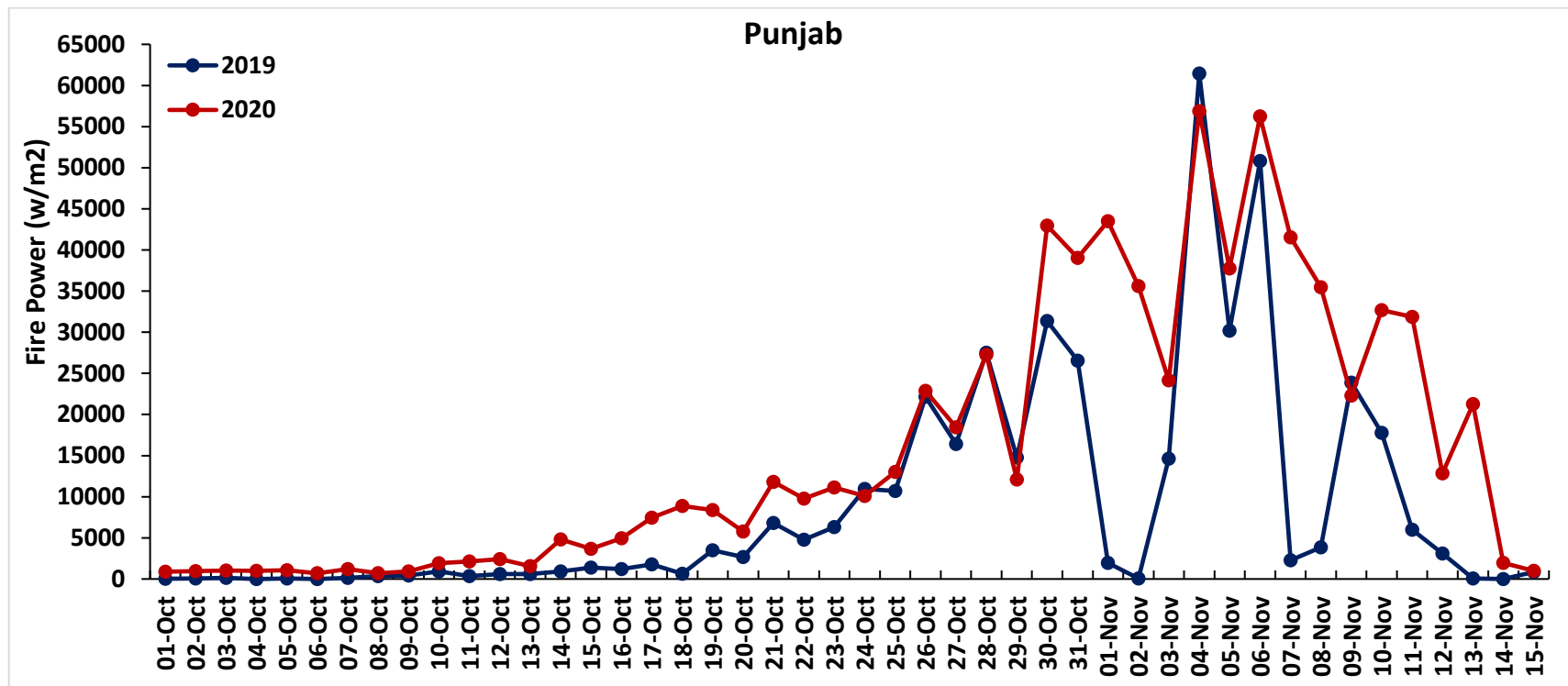


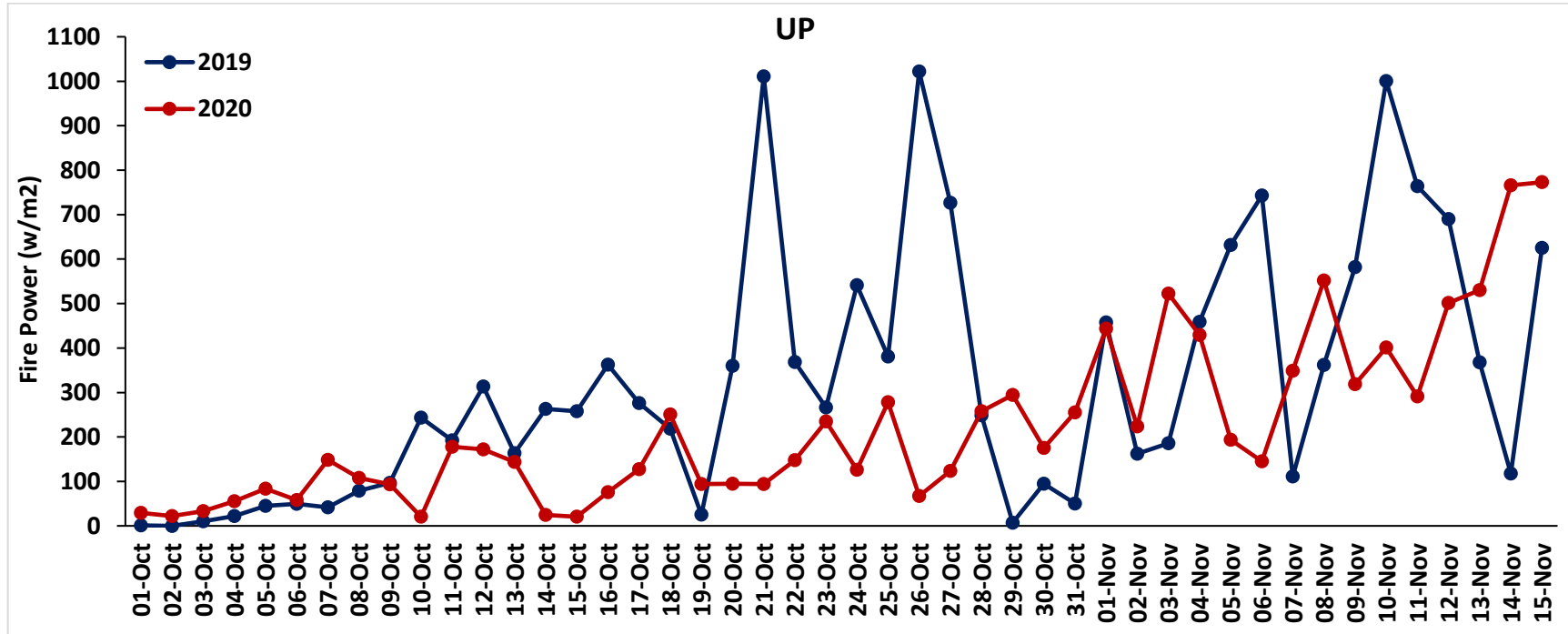
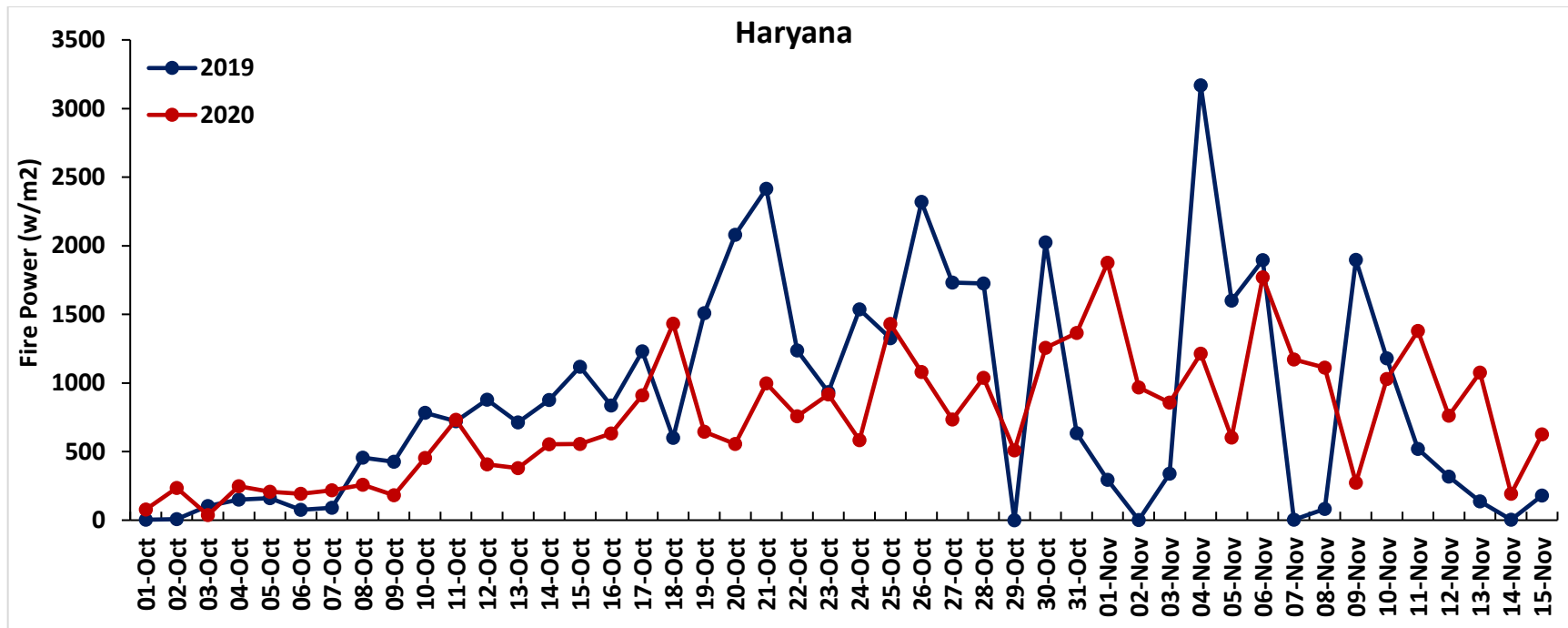
UP



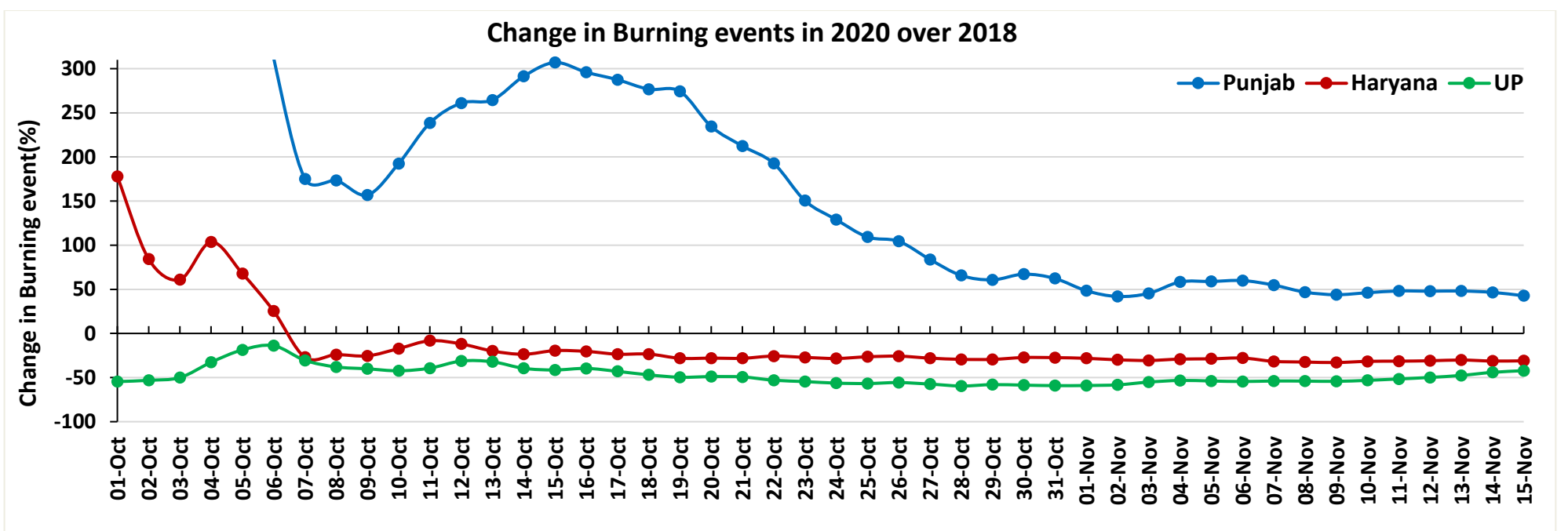
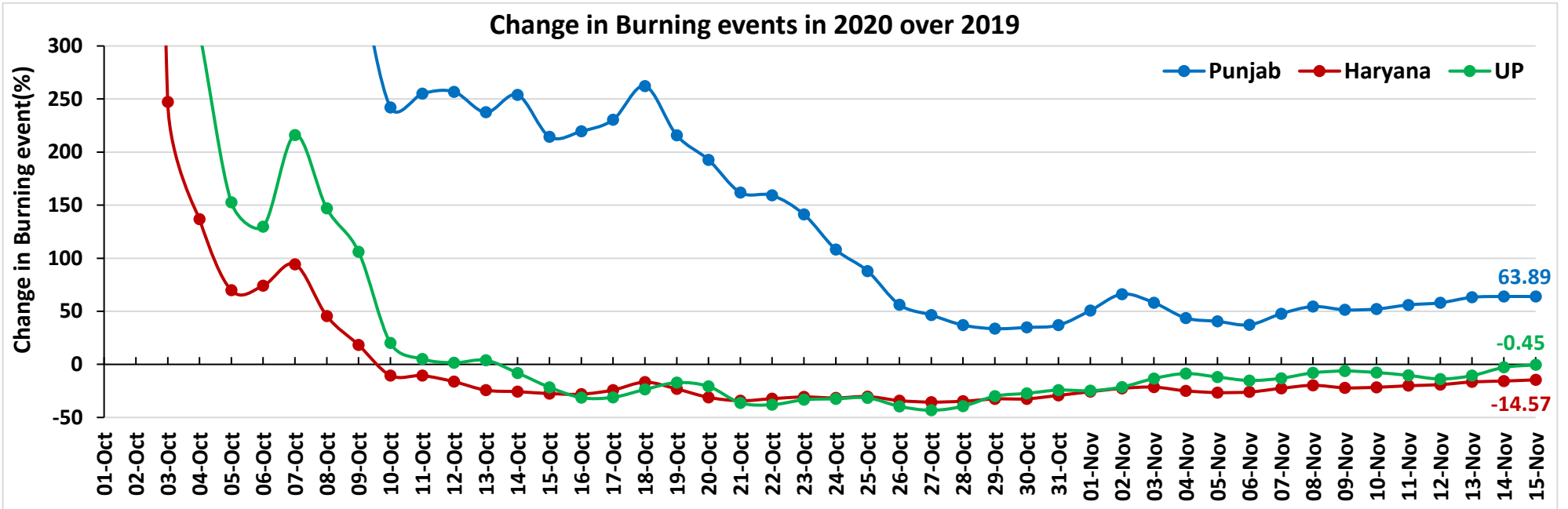
Comparison of Fire Intensity of residue burning events in current year (2020) with previous year (2019)
For the three study States

(01-Oct to 15-Nov)

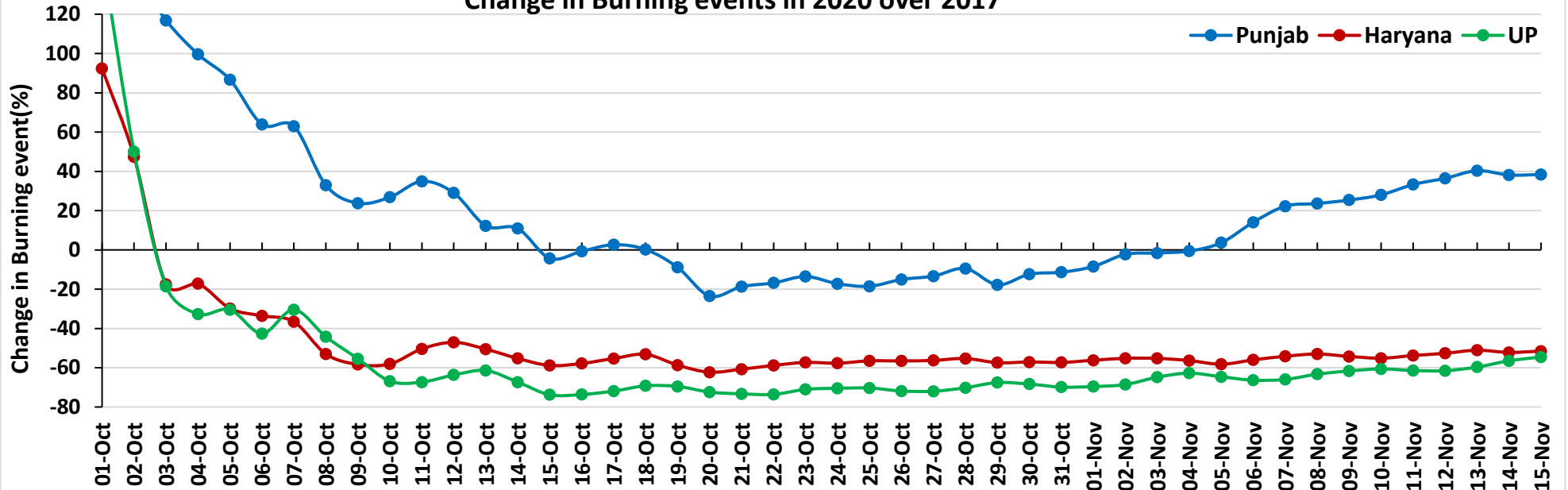




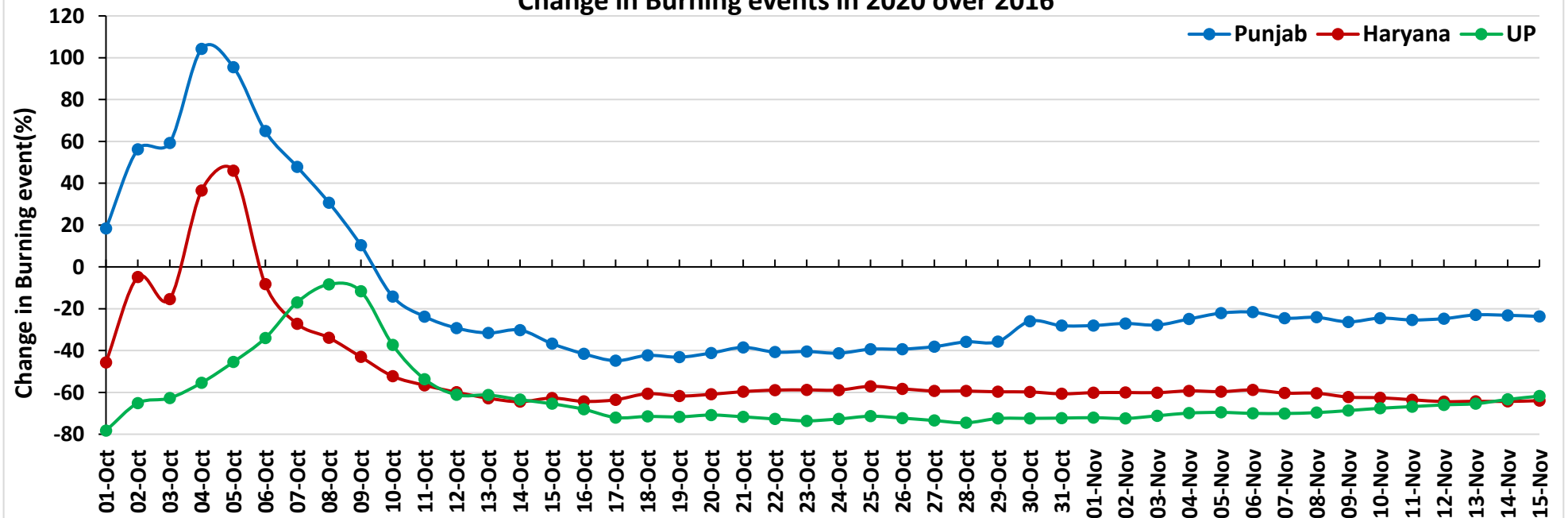
Percent Change in Burning events in 2020 over 2019, 2018, 2017 and 2016 (Daily Cumulative)



Change in Burning events in 2020 over 2017

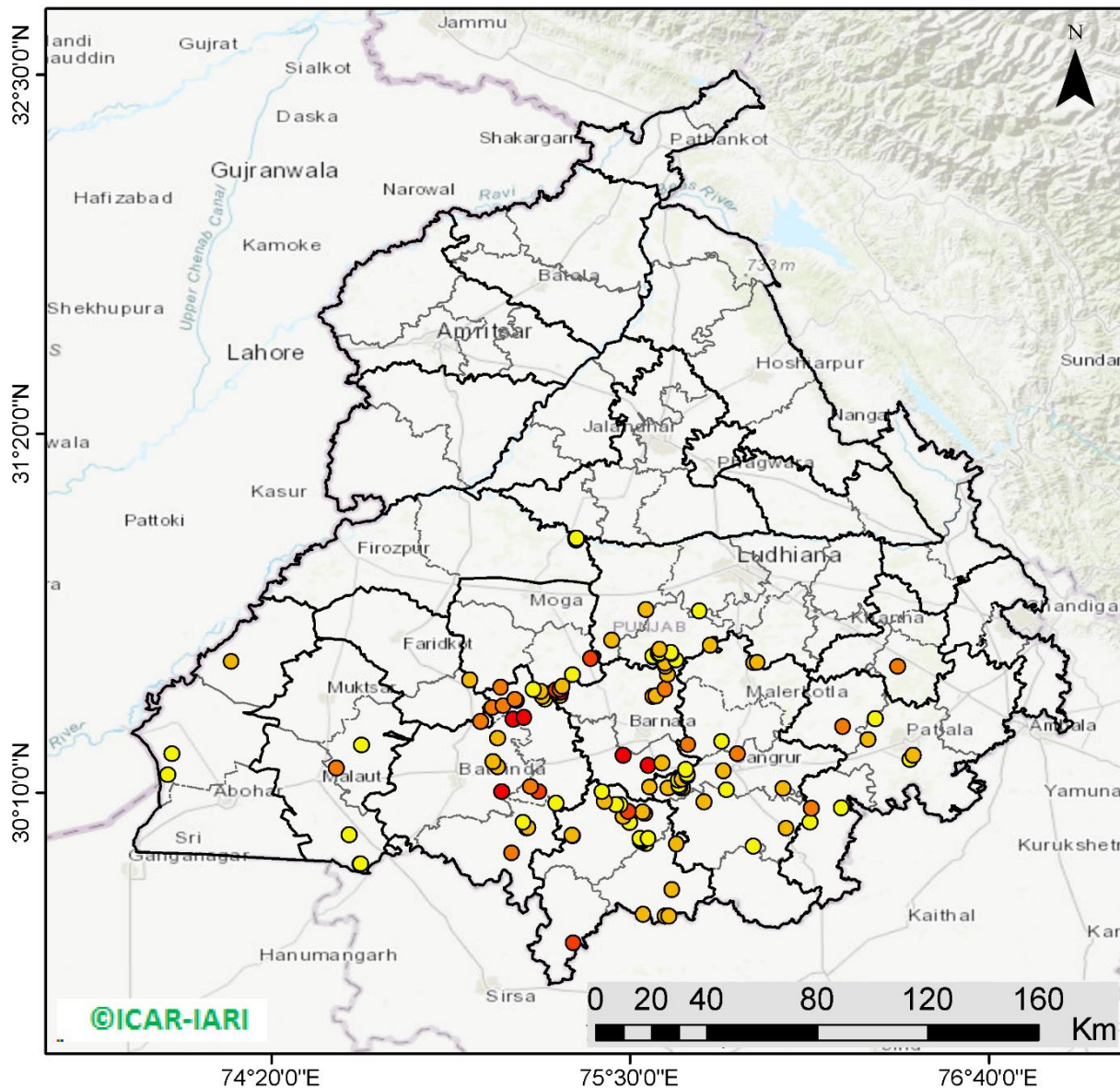


Change in Burning events in 2020 over 2016



(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



123 burning events detected in Punjab on 15th November 2020

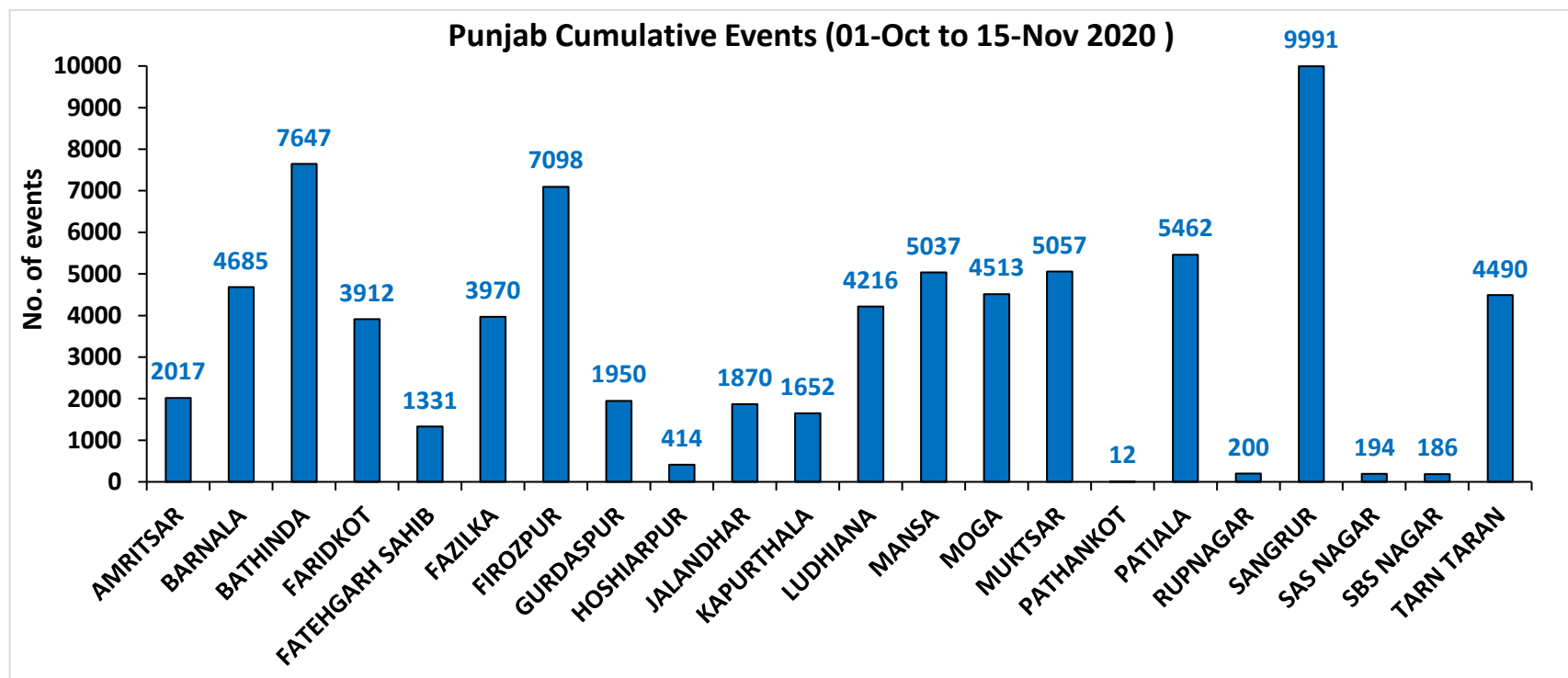
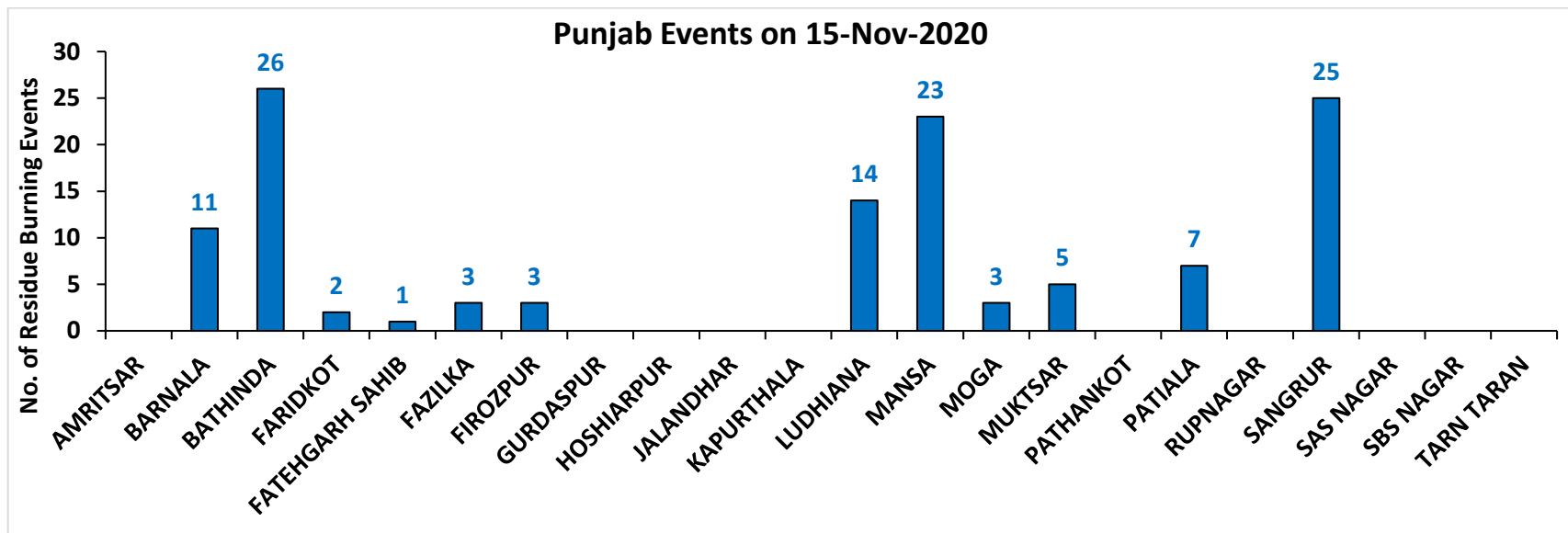
Fire Intensity (W/m²)

- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



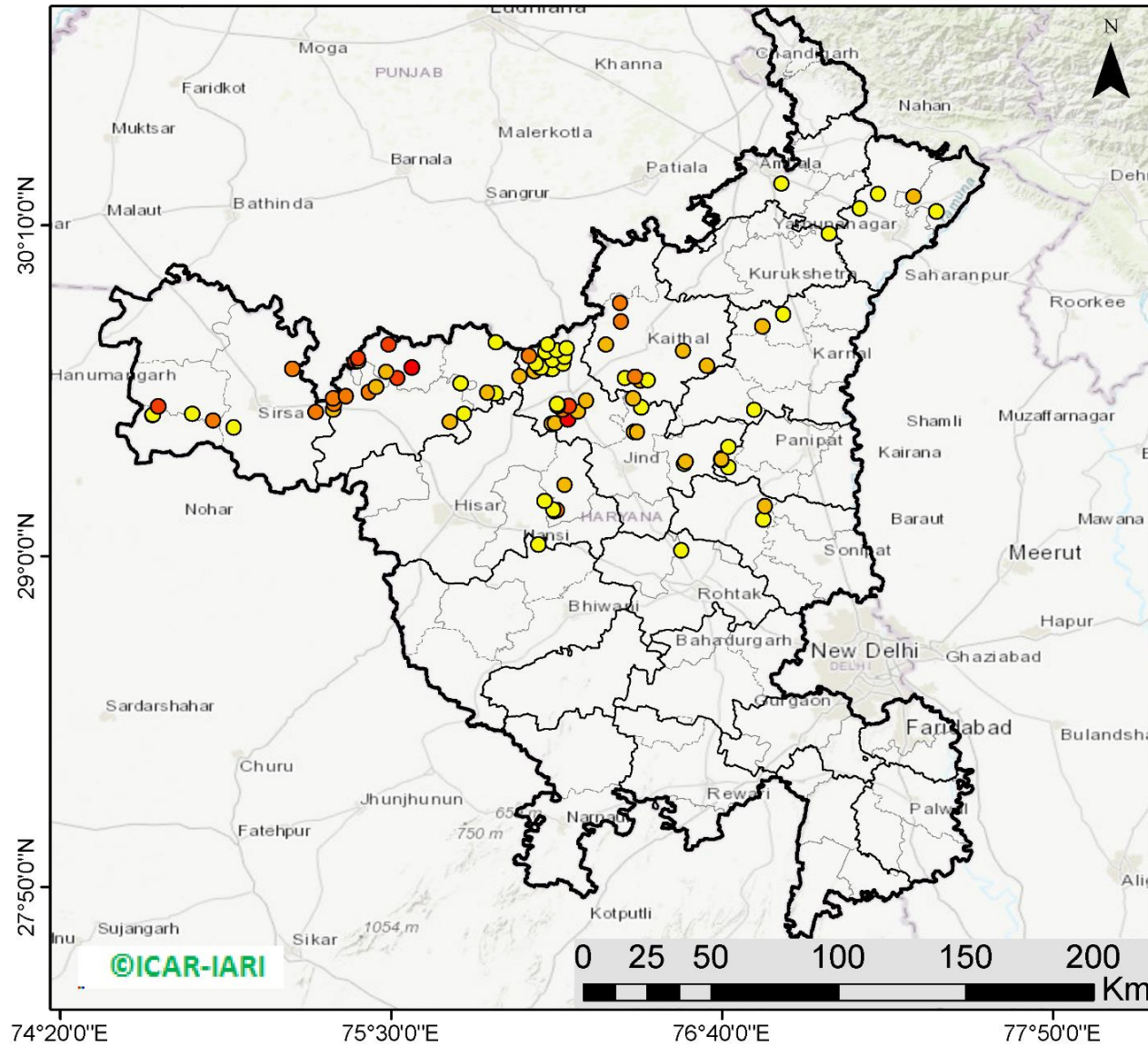
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Punjab (01-Oct to 15-Nov 2020)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



91 burning events detected in Haryana on 15th November 2020

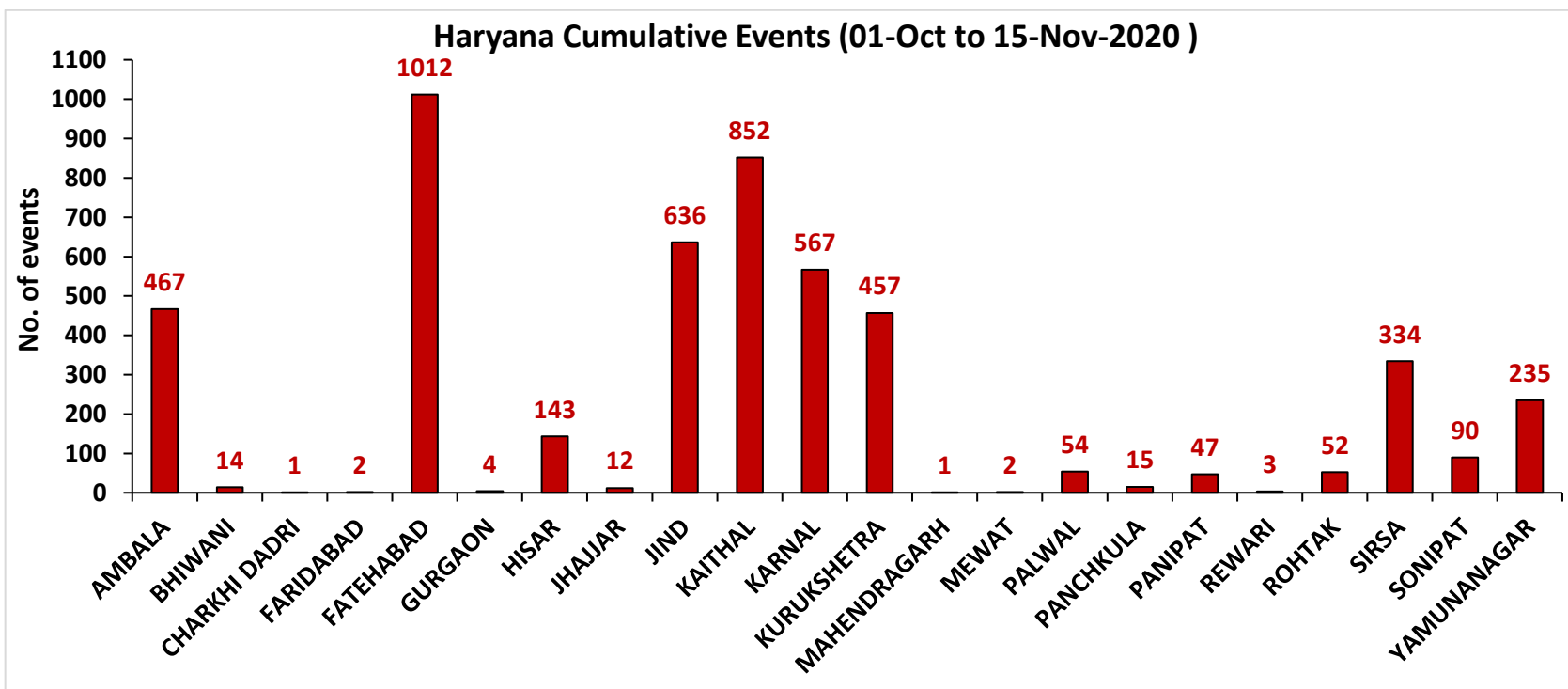
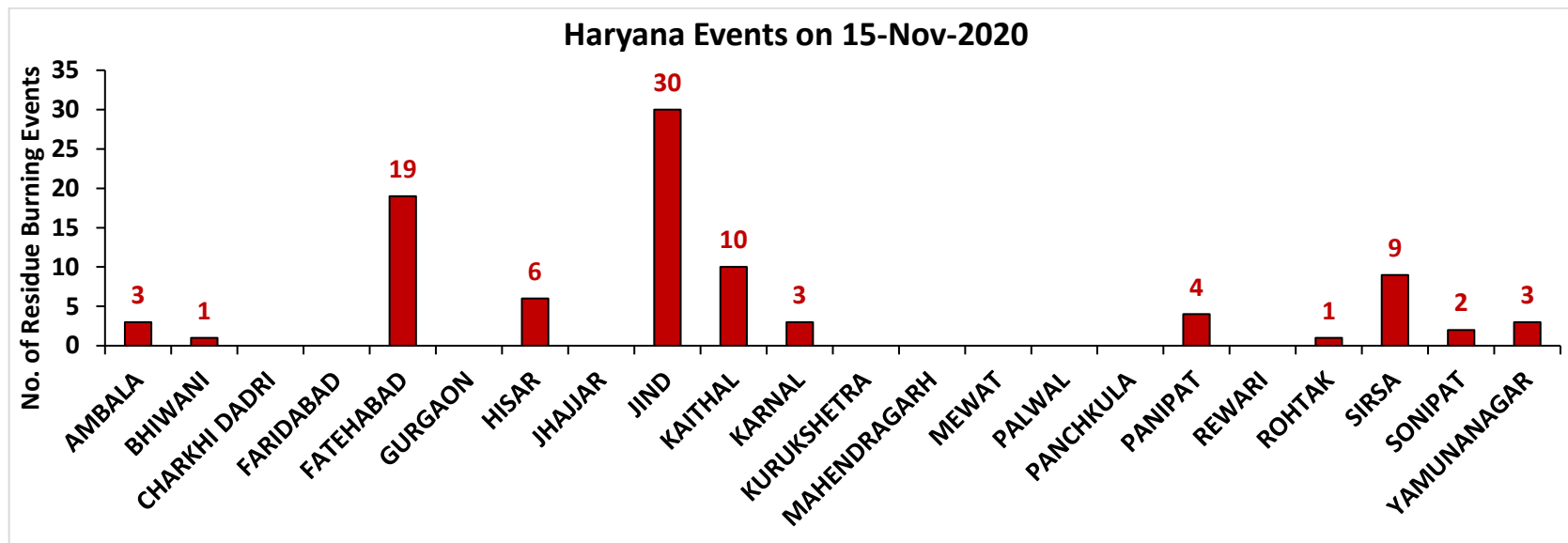
Fire Intensity (W/m²)

- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



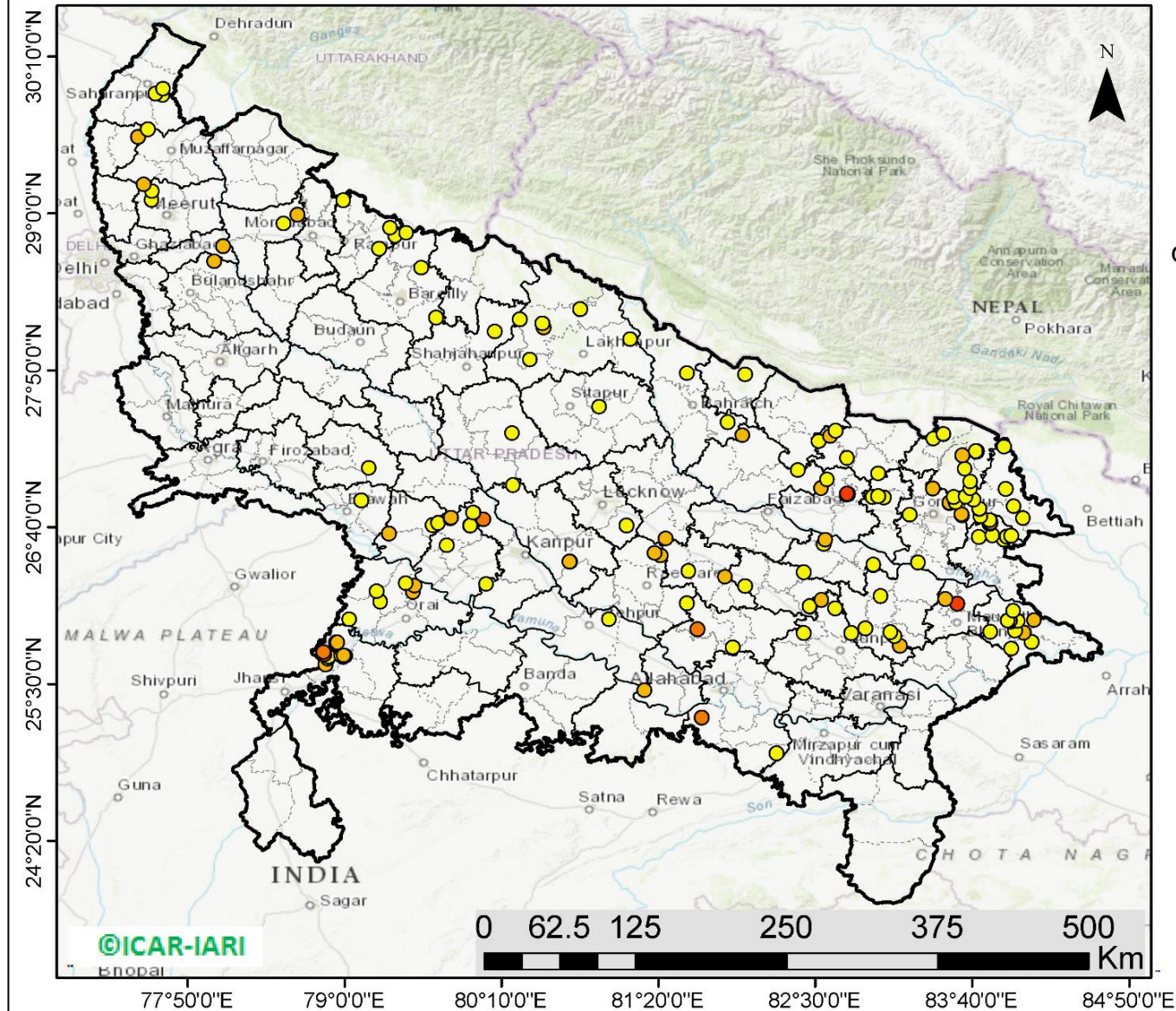
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Haryana (01-Oct to 15-Nov 2020)



(c) Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



176 burning events detected in Uttar Pradesh on 15th November 2020

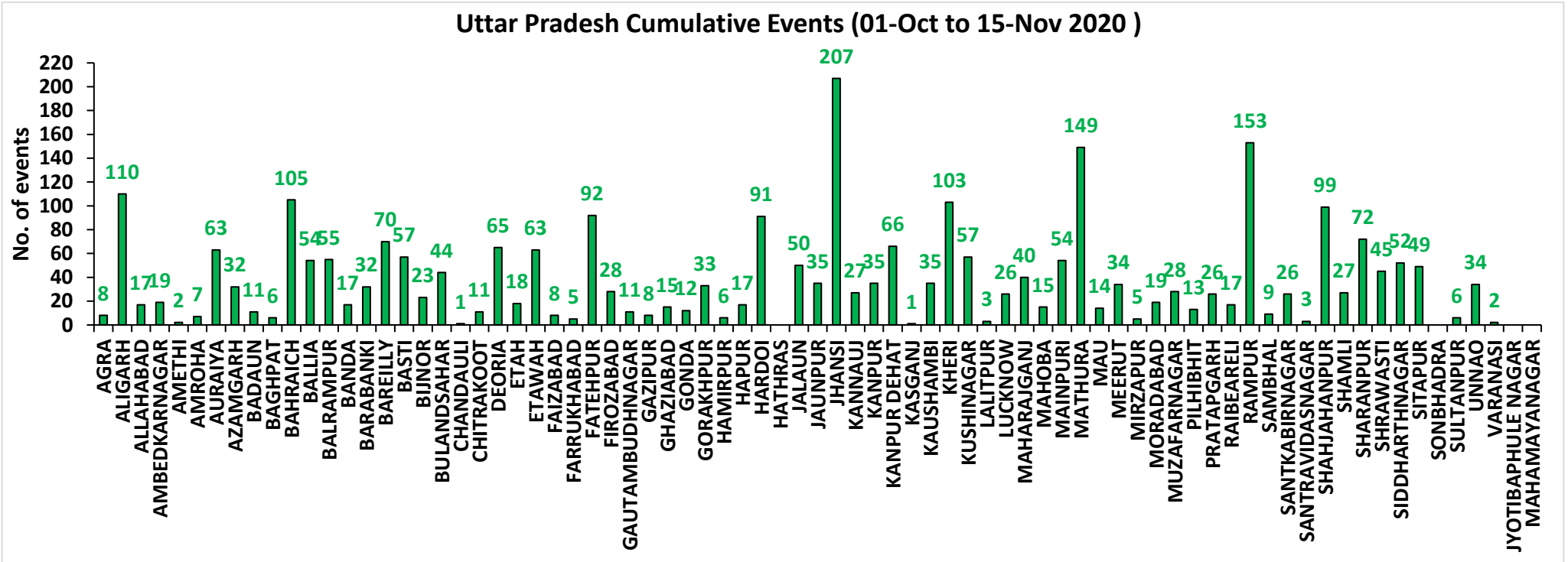
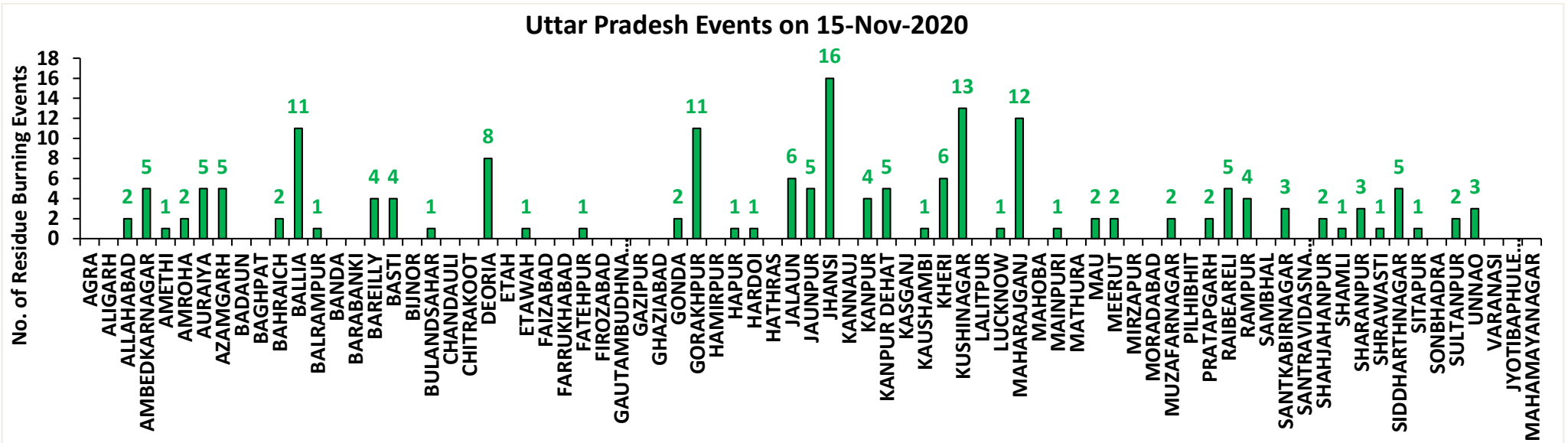
Fire Intensity (W/m²)

- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Uttar Pradesh (01-Oct to 15-Nov 2020)



State-wise and date-wise number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-October to 15-November)

Date	Punjab					Haryana					UP					Total				
	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016
01-Oct	129	3	16	54	109	25	1	9	13	46	5	1	11	2	23	159	5	36	69	178
02-Oct	121	20	9	50	51	34	2	23	27	16	10	0	21	8	20	165	22	53	85	87
03-Oct	110	37	4	62	66	07	16	9	40	16	07	3	12	17	16	124	56	25	119	98
04-Oct	177	3	32	103	37	50	30	16	60	7	11	4	5	22	15	238	37	53	185	59
05-Oct	163	16	56	106	95	30	37	30	68	15	15	11	10	20	14	208	64	96	194	124
06-Oct	141	0	87	138	152	42	22	63	75	105	14	8	13	39	6	197	30	163	252	263
07-Oct	166	27	162	105	171	53	16	180	97	126	36	4	69	33	24	255	47	411	235	321
08-Oct	100	59	39	215	166	40	69	40	218	94	23	18	54	76	14	163	146	133	509	274
09-Oct	126	93	75	163	270	30	70	47	148	121	15	17	32	88	22	171	180	154	399	413
10-Oct	238	172	23	164	597	65	157	37	151	242	07	53	21	126	74	310	382	81	441	913
11-Oct	333	78	30	177	652	112	126	78	87	336	22	38	24	74	128	467	242	132	338	1116
12-Oct	362	99	67	342	694	98	154	133	123	338	37	42	22	51	164	497	295	222	516	1196
13-Oct	247	108	62	470	467	64	159	147	207	284	39	33	61	69	102	350	300	270	746	853
14-Oct	616	141	112	582	812	87	133	153	333	328	08	39	57	137	60	711	313	322	1052	1200
15-Oct	487	262	90	943	1215	129	203	110	458	248	13	63	35	237	76	629	528	235	1638	1539
16-Oct	594	168	174	465	1478	100	148	138	186	385	20	77	20	71	125	714	393	332	722	1988
17-Oct	966	250	272	807	2173	167	152	268	244	399	38	53	94	69	261	1171	455	634	1120	2833
18-Oct	850	100	263	970	1065	197	103	255	306	270	64	39	163	108	204	1111	242	681	1384	1539
19-Oct	912	529	254	1591	1762	67	220	208	541	276	35	3	108	128	132	1014	752	570	2260	2170
20-Oct	933	490	496	2653	1175	104	360	141	597	188	31	62	49	255	62	1068	912	686	3505	1425
21-Oct	1415	852	618	1139	1726	153	339	217	233	257	30	185	66	168	152	1598	1376	901	1540	2135
22-Oct	1343	555	656	1356	2837	157	158	134	186	309	35	78	149	151	194	1535	791	939	1693	3340
23-Oct	1267	827	1113	994	2040	133	131	232	155	313	71	48	193	72	331	1471	1006	1538	1221	2684
24-Oct	921	1220	844	1714	1836	86	165	166	244	221	61	79	192	171	152	1068	1464	1202	2129	2209
25-Oct	1515	1463	1247	2104	1813	188	212	182	303	229	55	67	142	175	83	1758	1742	1571	2582	2125
26-Oct	2065	2861	1173	1715	3390	119	366	132	276	434	32	189	33	240	195	2216	3416	1338	2231	4019
27-Oct	2112	2135	2040	2069	2904	111	249	252	224	417	37	145	154	145	255	2260	2529	2446	2438	3576
28-Oct	2926	3007	2864	2318	3493	186	238	330	292	458	79	45	290	99	435	3191	3290	3484	2709	4386
29-Oct	1487	1504	1321	4184	2258	87	0	124	502	278	134	1	243	180	237	1708	1505	1688	4866	2773
30-Oct	4266	3017	2008	3152	1076	155	222	103	307	395	51	19	158	238	175	4472	3258	2269	3697	1646
31-Oct	3616	2325	2715	3743	6132	162	36	229	413	575	47	4	148	321	153	3825	2365	3092	4477	6860
01-Nov	3524	293	4140	2736	4843	187	50	306	250	362	70	105	161	199	223	3781	448	4607	3185	5428
02-Nov	3528	6	3550	1246	4183	139	2	306	145	332	80	33	142	131	345	3747	41	3998	1522	4860

03-Nov	2349	2646	972	2109	3806	104	68	202	240	375	174	56	181	75	409	2627	2770	1355	2424	4490
04-Nov	4965	6001	882	4603	4477	132	383	77	499	146	144	75	183	168	265	5241	6459	1142	5270	4888
05-Nov	4905	4199	2989	2876	4137	108	253	129	625	345	54	124	163	367	125	5067	4576	3281	3868	4607
06-Nov	5235	4642	3071	171	6303	207	243	222	26	322	40	118	130	357	215	5482	5003	3423	554	6840
07-Nov	4464	189	4033	420	8575	184	2	568	46	821	70	33	108	149	244	4718	224	4709	615	9640
08-Nov	3448	462	4450	2256	4129	164	16	313	128	432	151	54	338	43	419	3763	532	5101	2427	4980
09-Nov	1756	2003	2083	675	4857	30	199	96	311	608	124	96	294	107	205	1910	2298	2473	1093	5670
10-Nov	3463	2046	1675	1642	2468	144	151	85	509	484	106	147	125	131	109	3713	2344	1885	2282	3061
11-Nov	2950	783	1364	103	5040	149	78	196	29	716	94	174	45	358	129	3193	1035	1605	490	5885
12-Nov	1729	520	1256	33	1477	113	68	122	3	634	99	210	45	269	129	1941	798	1423	305	2240
13-Nov	2422	10	1563	237	885	160	16	146	7	389	154	79	94	109	338	2736	105	1803	353	1612
14-Nov	339	0	765	1101	692	50	1	189	340	171	234	22	128	95	247	623	23	1082	1536	1110
15-Nov	123	92	1480	5	871	91	29	107	40	107	176	111	146	123	154	390	232	1733	168	1132
Total	75904	46313	53195	54861	99455	5000	5853	7250	10312	13870	2852	2865	4932	6271	7460	83756	55031	65377	71444	120785

District-wise and date-wise cumulative number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-Oct to 15-Nov)

(a) Punjab

Districts	01-Oct to 15-Nov				
	2016	2017	2018	2019	2020
AMRITSAR	2056	1205	1136	1300	2017
BARNALA	5644	2790	2911	2867	4685
BATHINDA	8658	4750	5751	5009	7647
FARIDKOT	4565	2862	2737	2021	3912
FATEHGARH SAHIB	2446	1607	826	796	1331
FAZILKA	0	0	0	1483	3970
FIROZPUR	12750	5606	8340	4351	7098
GURDASPUR	2145	1507	1090	1440	1950
HOSHIARPUR	892	475	187	307	414
JALANDHAR	4611	1987	1281	1480	1870
KAPURTHALA	3115	1526	708	1344	1652
LUDHIANA	9253	3978	2328	2192	4216
MANSA	5456	4082	3994	3416	5037
MOGA	6352	1986	2413	2046	4513
MUKTSAR	6535	3433	4880	2603	5057
PATHANKOT	0	0	0	6	12
PATIALA	6530	5006	4125	3778	5462
RUPNAGAR	707	326	76	113	200
SANGRUR	11794	8222	7547	6268	9991
SAS NAGAR	114	107	104	149	194
SBS NAGAR	1582	792	337	258	186
TARN TARAN	4250	2614	2424	3086	4490
Total	99455	54861	53195	46313	75904

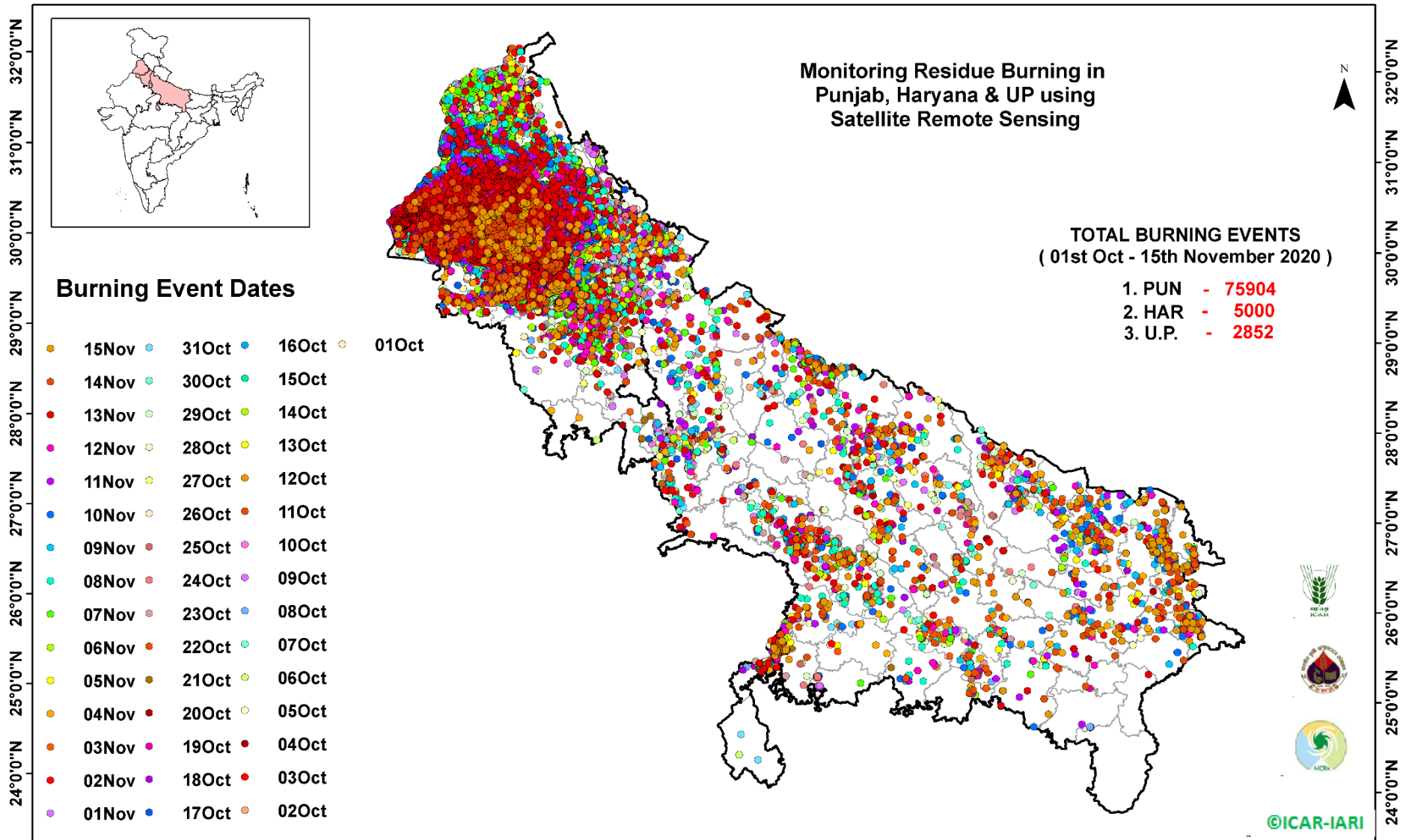
(b) Haryana

Districts	01-Oct to 15-Nov				
	2016	2017	2018	2019	2020
AMBALA	529	490	320	334	467
BHIWANI	55	27	13	6	14
CHARKHI DADRI	0	0	0	0	1
FARIDABAD	278	341	183	10	2
FATEHABAD	4408	2954	1899	1037	1012
GURGAON	0	0	0	4	4
HISAR	327	160	123	98	143
JHAJJAR	24	12	14	3	12
JIND	813	898	711	503	636
KAITHAL	1737	1491	1250	1218	852
KARNAL	1619	1484	831	1057	567
KURUKSHETRA	1075	1141	679	735	457
MAHENDRAGARH	0	0	0	2	1
MEWAT	0	0	0	3	2
PALWAL	0	0	0	188	54
PANCHKULA	0	0	3	21	15
PANIPAT	70	71	51	25	47
REWARI	0	0	0	3	3
ROHTAK	74	53	11	12	52
SIRSA	2553	831	956	321	334
SONIPAT	69	55	28	24	90
YAMUNANAGAR	239	304	178	249	235
Total	13870	10312	7250	5853	5000

(C)
Uttar Pradesh

Districts	01-Oct to 15-Nov																
	2016	2017	2018	2019	2020	GAUTAMBUDHNAGAR	20	33	11	16	11	MUZAFARNAGAR	102	101	31	23	28
AGRA	0	0	0	2	8	GAZIPUR	13	7	8	6	8	PILHIBHIT	907	679	410	321	13
ALIGARH	48	75	87	88	110	GHAZIABAD	58	35	24	12	15	PRATAPGARH	25	28	20	10	26
ALLAHABAD	3	8	10	6	17	GONDA	41	32	18	6	12	RAIBEARELI	47	36	29	10	17
AMBEDKARNAGAR	56	25	11	4	19	GORAKHPUR	46	59	60	9	33	RAMPUR	611	604	219	296	153
AMETHI	0	0	0	5	2	HAMIRPUR	0	0	1	20	6	SAMBHAL	0	0	0	7	9
AMROHA	0	0	0	7	7	HAPUR	0	0	0	8	17	SANTKABIRNAGAR	49	55	43	4	26
AURAIYA	173	125	46	15	63	HARDOI	225	175	106	57	91	SANTRAVIDASNAGAR	0	0	0	0	3
AZAMGARH	26	19	20	2	32	HATHRAS	0	0	0	1	0	SHAHJAHANPUR	1118	672	357	316	99
BADAUN	6	6	9	22	11	JALAUN	0	0	0	81	50	SHAMLI	0	0	0	21	27
BAGHPAT	0	0	0	5	6	JAUNPUR	10	6	14	1	35	SHARANPUR	75	96	48	61	72
BAHRAICH	55	35	57	36	105	JHANSI	0	0	2	69	207	SHRAWASTI	30	29	35	16	45
BALLIA	5	15	10	6	54	KANNAUJ	21	12	6	8	27	SIDDHARTHANAGAR	206	148	416	18	52
BALRAMPUR	27	24	37	4	55	KANPUR	9	6	8	5	35	SITAPUR	105	58	33	31	49
BANDA	1	10	8	8	17	KANPUR DEHAT	26	35	16	20	66	SONBHADRA	14	9	9	0	0
BARABANKI	204	142	165	53	32	KASGANJ	0	0	0	2	1	SULTANPUR	40	18	15	6	6
BAREILLY	234	191	114	101	70	KAUSHAMBI	15	30	32	12	35	UNNAO	48	34	33	20	34
BASTI	118	169	93	6	57	KHERI	379	235	168	152	103	VARANASI	1	0	0	0	2
BIJNOR	39	33	6	12	23	KUSHINAGAR	24	47	65	12	57	JYOTIBAPHULE NAGAR	8	11	4	0	0
BULANDSAHAR	16	28	12	22	44	LALITPUR	0	0	0	6	3	MAHAMAYANAGAR	2	2	6	0	0
CHANDAULI	2	0	0	0	1	LUCKNOW	53	30	26	14	26	Total	7460	6271	4932	2865	2852
CHITRAKOOT	0	0	0	3	11	MAHARAJGANJ	337	614	673	148	40						
DEORIA	36	34	41	2	65	MAHOBA	0	0	0	9	15						
ETAH	16	26	24	4	18	MAINPURI	60	71	41	31	54						
ETAWAH	72	69	32	34	63	MATHURA	1420	1082	1046	455	149						
FAIZABAD	10	6	7	3	8	MAU	10	5	9	1	14						
FARRUKHABAD	0	0	0	5	5	MEERUT	51	52	12	21	34						
FATEHPUR	43	32	64	41	92	MIRZAPUR	2	10	5	3	5						
FIROZABAD	23	16	9	13	28	MORADABAD	39	27	11	11	19						

Map of Cumulative Burning Events (01-Oct to 15-Nov 2020)



(<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>)

Details of residue burning events in Punjab on 15-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	BARNALA	BARNALA	AQUA	75.57400	30.47900	13:35:00	D	12.70
2	BARNALA	BARNALA	AQUA	75.58500	30.48100	13:35:00	D	8.70
3	BARNALA	BARNALA	S-NPP	75.27262	30.48211	12:48:00	D	4.00
4	BARNALA	BARNALA	AQUA	75.61400	30.50400	13:35:00	D	14.20
5	BARNALA	BARNALA	AQUA	75.62200	30.55000	13:35:00	D	6.90
6	BARNALA	BARNALA	AQUA	75.61600	30.57700	13:35:00	D	7.50
7	BARNALA	BARNALA	AQUA	75.61400	30.58700	13:35:00	D	8.30
8	BARNALA	TAPPA	S-NPP	75.68057	30.24154	12:48:00	D	3.90
9	BARNALA	TAPPA	AQUA	75.56000	30.25600	13:35:00	D	22.90
10	BARNALA	TAPPA	AQUA	75.60400	30.26300	13:35:00	D	8.00
11	BARNALA	TAPPA	AQUA	75.47700	30.28800	13:35:00	D	41.40
12	BATHINDA	BATHINDA	AQUA	75.08300	30.17000	13:35:00	D	36.50
13	BATHINDA	BATHINDA	AQUA	75.07000	30.25100	13:35:00	D	6.90
14	BATHINDA	BATHINDA	AQUA	75.05400	30.26800	13:35:00	D	7.70
15	BATHINDA	BATHINDA	AQUA	75.06900	30.34300	13:35:00	D	6.90
16	BATHINDA	RAMPURA PHUL	AQUA	75.20300	30.17000	13:35:00	D	15.10
17	BATHINDA	RAMPURA PHUL	AQUA	75.17600	30.18500	13:35:00	D	13.70
18	BATHINDA	RAMPURA PHUL	AQUA	75.12000	30.40500	13:35:00	D	24.50
19	BATHINDA	RAMPURA PHUL	AQUA	75.15500	30.41100	13:35:00	D	29.90
20	BATHINDA	RAMPURA PHUL	AQUA	75.05200	30.44300	13:35:00	D	12.60
21	BATHINDA	RAMPURA PHUL	AQUA	75.08700	30.44900	13:35:00	D	10.80
22	BATHINDA	RAMPURA PHUL	AQUA	75.13100	30.46500	13:35:00	D	13.70
23	BATHINDA	RAMPURA PHUL	AQUA	75.12500	30.46900	13:35:00	D	11.80
24	BATHINDA	RAMPURA PHUL	S-NPP	75.22308	30.46985	12:48:00	D	2.60
25	BATHINDA	RAMPURA PHUL	S-NPP	75.21542	30.47965	12:48:00	D	8.70
26	BATHINDA	RAMPURA PHUL	AQUA	75.26300	30.49200	13:35:00	D	31.80
27	BATHINDA	RAMPURA PHUL	AQUA	75.27400	30.49300	13:35:00	D	27.30
28	BATHINDA	RAMPURA PHUL	S-NPP	75.21013	30.49589	12:48:00	D	5.80
29	BATHINDA	RAMPURA PHUL	AQUA	75.26000	30.50100	13:35:00	D	15.20
30	BATHINDA	RAMPURA PHUL	S-NPP	75.18578	30.50160	12:48:00	D	1.70

31	BATHINDA	RAMPURA PHUL	AQUA	75.27200	30.50300	13:35:00	D	14.80
32	BATHINDA	RAMPURA PHUL	AQUA	75.08000	30.51000	13:35:00	D	14.20
33	BATHINDA	TALWANDI SABO	AQUA	75.11500	29.97100	13:35:00	D	11.20
34	BATHINDA	TALWANDI SABO	S-NPP	75.16428	30.05130	12:48:00	D	4.40
35	BATHINDA	TALWANDI SABO	S-NPP	75.16854	30.05235	12:48:00	D	5.30
36	BATHINDA	TALWANDI SABO	S-NPP	75.15232	30.06964	12:48:00	D	4.80
37	BATHINDA	TALWANDI SABO	S-NPP	75.25990	30.13200	12:48:00	D	4.20
38	FARIDKOT	JAITO	AQUA	75.01400	30.39800	13:35:00	D	10.20
39	FARIDKOT	JAITO	AQUA	74.97800	30.53300	13:35:00	D	7.80
40	FATEHGARH SAHIB	FATEHGARH SAHIB	AQUA	76.37000	30.57600	13:35:00	D	15.00
41	FAZILKA	FAZILKA	S-NPP	73.99671	30.22374	01:30:00	N	0.90
42	FAZILKA	FAZILKA	S-NPP	74.00985	30.29227	12:48:00	D	3.60
43	FAZILKA	JALALABAD	AQUA	74.20300	30.59200	13:35:00	D	7.60
44	FIROZPUR	ZIRA	S-NPP	75.32491	30.98801	01:30:00	N	0.50
45	FIROZPUR	ZIRA	S-NPP	75.32328	30.99294	01:30:00	N	1.60
46	FIROZPUR	ZIRA	S-NPP	75.32545	30.99355	01:30:00	N	0.70
47	LUDHIANA	JAGRAON	AQUA	75.44100	30.66200	13:35:00	D	6.60
48	LUDHIANA	JAGRAON	AQUA	75.55200	30.76200	13:35:00	D	9.00
49	LUDHIANA	LUDHIANA WEST	S-NPP	75.72496	30.75738	12:48:00	D	2.40
50	LUDHIANA	RAIKOT	S-NPP	75.65041	30.59767	12:48:00	D	1.90
51	LUDHIANA	RAIKOT	S-NPP	75.57524	30.60797	12:48:00	D	2.80
52	LUDHIANA	RAIKOT	S-NPP	75.57443	30.60994	12:48:00	D	2.70
53	LUDHIANA	RAIKOT	S-NPP	75.59318	30.61800	12:48:00	D	5.30
54	LUDHIANA	RAIKOT	S-NPP	75.59708	30.61894	12:48:00	D	4.60
55	LUDHIANA	RAIKOT	S-NPP	75.63474	30.61920	12:48:00	D	3.00
56	LUDHIANA	RAIKOT	S-NPP	75.59232	30.62009	12:48:00	D	5.20
57	LUDHIANA	RAIKOT	S-NPP	75.59623	30.62106	12:48:00	D	4.20
58	LUDHIANA	RAIKOT	S-NPP	75.63406	30.62215	12:48:00	D	2.70
59	LUDHIANA	RAIKOT	S-NPP	75.59673	30.63259	12:48:00	D	5.60
60	LUDHIANA	RAIKOT	S-NPP	75.76093	30.64680	14:24:00	D	6.00
61	MANSA	BUDHLADA	AQUA	75.61400	29.76500	13:35:00	D	9.70
62	MANSA	BUDHLADA	AQUA	75.62600	29.76600	13:35:00	D	5.70
63	MANSA	BUDHLADA	AQUA	75.54300	29.77200	13:35:00	D	5.20

64	MANSA	BUDHLADA	AQUA	75.63700	29.85100	13:35:00	D	8.50
65	MANSA	BUDHLADA	S-NPP	75.65154	29.99935	14:24:00	D	5.80
66	MANSA	BUDHLADA	S-NPP	75.55222	30.00124	14:24:00	D	2.20
67	MANSA	BUDHLADA	S-NPP	75.53878	30.00724	14:24:00	D	6.30
68	MANSA	MANSA	S-NPP	75.53365	30.01077	14:24:00	D	4.70
69	MANSA	MANSA	S-NPP	75.53844	30.01389	14:24:00	D	6.30
70	MANSA	MANSA	S-NPP	75.53329	30.01741	14:24:00	D	3.10
71	MANSA	MANSA	S-NPP	75.55952	30.01856	14:24:00	D	4.20
72	MANSA	MANSA	S-NPP	75.31315	30.02732	14:24:00	D	5.70
73	MANSA	MANSA	S-NPP	75.31187	30.02880	14:24:00	D	5.60
74	MANSA	MANSA	S-NPP	75.49773	30.06905	14:24:00	D	4.70
75	MANSA	MANSA	S-NPP	75.47715	30.08801	14:24:00	D	8.60
76	MANSA	MANSA	S-NPP	75.54724	30.09869	12:48:00	D	10.60
77	MANSA	MANSA	S-NPP	75.54178	30.10444	14:24:00	D	7.00
78	MANSA	MANSA	AQUA	75.49400	30.10600	13:35:00	D	18.90
79	MANSA	MANSA	S-NPP	75.46857	30.12745	14:24:00	D	3.60
80	MANSA	MANSA	S-NPP	75.45461	30.12822	12:48:00	D	2.90
81	MANSA	MANSA	S-NPP	75.41615	30.13805	14:24:00	D	5.10
82	MANSA	MANSA	S-NPP	75.40898	30.16897	12:48:00	D	3.50
83	MANSA	SARDULGARH	AQUA	75.31600	29.67800	13:35:00	D	18.10
84	MOGA	NIHAL SINGH WALA	S-NPP	75.28033	30.51314	12:48:00	D	7.00
85	MOGA	NIHAL SINGH WALA	S-NPP	75.31255	30.55007	12:48:00	D	3.10
86	MOGA	NIHAL SINGH WALA	AQUA	75.37200	30.60300	13:35:00	D	16.10
87	MUKTSAR	GIDDARBAHA	S-NPP	74.62653	30.32041	12:48:00	D	2.50
88	MUKTSAR	MALAUT	S-NPP	74.62240	29.93487	12:48:00	D	1.90
89	MUKTSAR	MALAUT	S-NPP	74.62322	29.93515	12:48:00	D	4.40
90	MUKTSAR	MALAUT	S-NPP	74.58624	30.02983	12:48:00	D	3.90
91	MUKTSAR	MALAUT	AQUA	74.54500	30.24700	13:35:00	D	10.80
92	PATIALA	NABHA	AQUA	76.19200	30.38200	13:35:00	D	13.60
93	PATIALA	PATIALA	S-NPP	76.41082	30.27475	12:48:00	D	2.40
94	PATIALA	PATIALA	AQUA	76.42100	30.28800	13:35:00	D	5.70
95	PATIALA	PATIALA	AQUA	76.27400	30.33900	13:35:00	D	5.10
96	PATIALA	PATIALA	AQUA	76.29700	30.40700	13:35:00	D	5.00

97	PATIALA	SAMANA	AQUA	76.08900	30.11600	13:35:00	D	13.80
98	PATIALA	SAMANA	S-NPP	76.18748	30.11666	12:48:00	D	2.00
99	SANGRUR	DHURI	AQUA	75.68800	30.32200	13:35:00	D	14.30
100	SANGRUR	DHURI	S-NPP	75.79883	30.33281	12:48:00	D	2.60
101	SANGRUR	MALERKOTLA	AQUA	75.90300	30.58800	13:35:00	D	6.60
102	SANGRUR	MALERKOTLA	AQUA	75.91400	30.58900	13:35:00	D	5.20
103	SANGRUR	MOONAK	S-NPP	75.90076	29.99319	12:48:00	D	2.80
104	SANGRUR	SANGRUR	S-NPP	75.66792	30.17991	12:48:00	D	6.10
105	SANGRUR	SANGRUR	S-NPP	75.99743	30.18032	12:48:00	D	7.40
106	SANGRUR	SANGRUR	S-NPP	75.67188	30.18087	12:48:00	D	6.10
107	SANGRUR	SANGRUR	S-NPP	75.62476	30.18098	12:48:00	D	4.00
108	SANGRUR	SANGRUR	S-NPP	75.62278	30.18140	12:48:00	D	5.90
109	SANGRUR	SANGRUR	S-NPP	75.56358	30.18351	12:48:00	D	5.20
110	SANGRUR	SANGRUR	S-NPP	75.66227	30.18428	12:48:00	D	6.20
111	SANGRUR	SANGRUR	S-NPP	75.65851	30.19025	12:48:00	D	3.70
112	SANGRUR	SANGRUR	S-NPP	75.65942	30.20652	12:48:00	D	2.40
113	SANGRUR	SANGRUR	S-NPP	75.65739	30.20720	12:48:00	D	2.20
114	SANGRUR	SANGRUR	S-NPP	75.67131	30.20937	12:48:00	D	6.40
115	SANGRUR	SANGRUR	S-NPP	75.66926	30.21012	12:48:00	D	8.20
116	SANGRUR	SANGRUR	S-NPP	75.68729	30.22029	12:48:00	D	3.70
117	SANGRUR	SANGRUR	S-NPP	75.68562	30.22561	12:48:00	D	2.70
118	SANGRUR	SANGRUR	AQUA	75.80400	30.23800	13:35:00	D	8.70
119	SANGRUR	SANGRUR	AQUA	75.84900	30.29200	13:35:00	D	12.10
120	SANGRUR	SUNAM	AQUA	76.00800	30.05000	13:35:00	D	8.40
121	SANGRUR	SUNAM	S-NPP	76.08569	30.06955	12:48:00	D	1.90
122	SANGRUR	SUNAM	AQUA	75.74100	30.13600	13:35:00	D	7.30
123	SANGRUR	SUNAM	S-NPP	75.81318	30.17511	12:48:00	D	2.40

Details of residue burning events in Haryana on 15-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA	S-NPP	76.87605	30.31304	12:48:00	D	4.60
2	AMBALA	BARARA	S-NPP	77.04332	30.13729	12:48:00	D	1.00
3	AMBALA	BARARA	S-NPP	77.15250	30.22689	01:30:00	N	1.70
4	BHIWANI	BAWANI_KHERA	S-NPP	76.01925	29.04187	01:30:00	N	0.50
5	FATEHABAD	FATEHABAD	AQUA	75.70700	29.47300	13:35:00	D	7.30
6	FATEHABAD	FATEHABAD	S-NPP	75.75682	29.50126	12:48:00	D	2.40
7	FATEHABAD	FATEHABAD	S-NPP	75.29569	29.51614	12:48:00	D	5.20
8	FATEHABAD	FATEHABAD	AQUA	75.29900	29.53800	13:35:00	D	12.20
9	FATEHABAD	FATEHABAD	AQUA	75.34100	29.56500	13:35:00	D	11.00
10	FATEHABAD	FATEHABAD	AQUA	75.42100	29.57800	13:35:00	D	14.20
11	FATEHABAD	FATEHABAD	AQUA	75.44700	29.59600	13:35:00	D	6.80
12	FATEHABAD	FATEHABAD	S-NPP	75.74493	29.60861	12:48:00	D	4.40
13	FATEHABAD	FATEHABAD	AQUA	75.52300	29.62800	13:35:00	D	18.20
14	FATEHABAD	RATIA	AQUA	75.48300	29.65000	13:35:00	D	9.20
15	FATEHABAD	RATIA	AQUA	75.57300	29.66500	13:35:00	D	20.20
16	FATEHABAD	RATIA	AQUA	75.37400	29.68700	13:35:00	D	19.00
17	FATEHABAD	RATIA	AQUA	75.38500	29.68900	13:35:00	D	7.10
18	FATEHABAD	RATIA	AQUA	75.38300	29.69800	13:35:00	D	20.00
19	FATEHABAD	RATIA	AQUA	75.49100	29.74500	13:35:00	D	15.50
20	FATEHABAD	TOHANA	S-NPP	75.86741	29.57409	12:48:00	D	2.10
21	FATEHABAD	TOHANA	AQUA	75.83900	29.57700	13:35:00	D	9.60
22	FATEHABAD	TOHANA	AQUA	75.95200	29.63300	13:35:00	D	7.50
23	FATEHABAD	TOHANA	S-NPP	75.86980	29.75426	12:48:00	D	3.30
24	HISAR	HANSI	AQUA	76.04100	29.19400	13:35:00	D	4.90
25	HISAR	NARNAUND	S-NPP	76.07551	29.15911	01:30:00	N	0.80
26	HISAR	NARNAUND	S-NPP	76.07907	29.16166	03:06:00	N	2.80
27	HISAR	NARNAUND	AQUA	76.08400	29.16300	02:35:00	N	10.80
28	HISAR	NARNAUND	S-NPP	76.07187	29.16371	03:06:00	N	3.00
29	HISAR	NARNAUND	AQUA	76.11200	29.25100	13:35:00	D	5.50
30	JIND	JIND	AQUA	76.35600	29.43800	13:35:00	D	5.40

31	JIND	JIND	AQUA	76.36700	29.43900	13:35:00	D	5.30
32	JIND	JIND	S-NPP	76.38113	29.52545	12:42:00	D	3.50
33	JIND	NARWANA	AQUA	76.06600	29.46600	13:35:00	D	7.00
34	JIND	NARWANA	AQUA	76.07700	29.46800	13:35:00	D	5.40
35	JIND	NARWANA	S-NPP	76.12348	29.48055	12:42:00	D	20.80
36	JIND	NARWANA	AQUA	76.15800	29.50900	13:35:00	D	7.90
37	JIND	NARWANA	S-NPP	76.10435	29.51565	12:42:00	D	13.90
38	JIND	NARWANA	AQUA	76.12600	29.53000	13:35:00	D	19.30
39	JIND	NARWANA	S-NPP	76.08685	29.53009	12:48:00	D	2.60
40	JIND	NARWANA	S-NPP	76.08623	29.53402	12:42:00	D	5.30
41	JIND	NARWANA	S-NPP	76.08524	29.53538	12:48:00	D	2.60
42	JIND	NARWANA	AQUA	76.18800	29.54900	13:35:00	D	5.20
43	JIND	NARWANA	AQUA	76.00400	29.65100	13:35:00	D	8.30
44	JIND	NARWANA	AQUA	76.05800	29.66000	13:35:00	D	6.40
45	JIND	NARWANA	AQUA	76.06900	29.66100	13:35:00	D	4.60
46	JIND	NARWANA	S-NPP	76.02401	29.66488	12:48:00	D	3.40
47	JIND	NARWANA	S-NPP	76.02787	29.66581	12:48:00	D	3.40
48	JIND	NARWANA	S-NPP	76.01135	29.67886	12:48:00	D	2.50
49	JIND	NARWANA	S-NPP	76.10632	29.67911	12:48:00	D	3.30
50	JIND	NARWANA	S-NPP	76.06915	29.69277	12:48:00	D	3.30
51	JIND	NARWANA	S-NPP	76.11124	29.70287	12:48:00	D	2.20
52	JIND	NARWANA	S-NPP	75.98598	29.70687	12:48:00	D	11.40
53	JIND	NARWANA	S-NPP	76.04394	29.72070	12:48:00	D	2.90
54	JIND	NARWANA	S-NPP	76.08394	29.72458	12:48:00	D	2.40
55	JIND	NARWANA	S-NPP	76.11831	29.73277	12:48:00	D	3.00
56	JIND	NARWANA	S-NPP	76.05271	29.74541	12:48:00	D	1.60
57	JIND	SAFIDON	S-NPP	76.53235	29.32543	12:42:00	D	2.20
58	JIND	SAFIDON	S-NPP	76.53811	29.33236	12:42:00	D	5.40
59	JIND	SAFIDON	S-NPP	76.68900	29.38473	12:42:00	D	2.10
60	KAITHAL	KAITHAL	AQUA	76.35300	29.55600	13:35:00	D	5.20
61	KAITHAL	KAITHAL	S-NPP	76.37879	29.61874	14:24:00	D	5.20
62	KAITHAL	KAITHAL	AQUA	76.40500	29.62000	13:35:00	D	3.80
63	KAITHAL	KAITHAL	S-NPP	76.32519	29.62709	12:48:00	D	3.00
64	KAITHAL	KAITHAL	AQUA	76.35900	29.63200	13:35:00	D	10.30

65	KAITHAL	KAITHAL	AQUA	76.61300	29.67100	13:35:00	D	5.90
66	KAITHAL	KAITHAL	AQUA	76.53000	29.72300	13:35:00	D	5.30
67	KAITHAL	KAITHAL	AQUA	76.25700	29.74500	13:35:00	D	8.60
68	KAITHAL	KAITHAL	AQUA	76.31100	29.82700	13:35:00	D	13.00
69	KAITHAL	KAITHAL	AQUA	76.30800	29.89200	13:35:00	D	13.60
70	KARNAL	ASSANDH	S-NPP	76.77950	29.51538	12:42:00	D	2.10
71	KARNAL	NILOKHERI	AQUA	76.80900	29.81100	13:35:00	D	7.10
72	KARNAL	NILOKHERI	S-NPP	76.88201	29.85299	12:48:00	D	1.40
73	PANIPAT	ISRANA	S-NPP	76.68837	29.31302	12:42:00	D	4.50
74	PANIPAT	ISRANA	AQUA	76.66600	29.33700	13:35:00	D	6.20
75	PANIPAT	ISRANA	S-NPP	76.66396	29.34028	12:42:00	D	4.60
76	PANIPAT	ISRANA	S-NPP	76.66464	29.34048	12:42:00	D	5.40
77	ROHTAK	ROHTAK	S-NPP	76.52397	29.02120	12:42:00	D	3.50
78	SIRSA	ELLENABAD	S-NPP	74.65850	29.49725	12:48:00	D	5.80
79	SIRSA	ELLENABAD	S-NPP	74.65965	29.49806	12:48:00	D	5.00
80	SIRSA	ELLENABAD	AQUA	74.67900	29.52800	13:35:00	D	16.00
81	SIRSA	RANIA	AQUA	74.87300	29.47800	13:35:00	D	10.70
82	SIRSA	RANIA	S-NPP	74.79831	29.50207	12:48:00	D	3.90
83	SIRSA	SIRSA	S-NPP	74.94577	29.45368	12:48:00	D	4.10
84	SIRSA	SIRSA	AQUA	75.23400	29.50800	13:35:00	D	12.40
85	SIRSA	SIRSA	AQUA	75.29500	29.55700	13:35:00	D	15.00
86	SIRSA	SIRSA	AQUA	75.15200	29.66000	13:35:00	D	15.00
87	SONIPAT	GOHANA	AQUA	76.81200	29.12900	13:35:00	D	4.60
88	SONIPAT	GOHANA	AQUA	76.81800	29.17600	13:35:00	D	6.80
89	YAMUNANAGAR	CHHACHHRAULII	AQUA	77.42200	30.21600	13:35:00	D	4.90
90	YAMUNANAGAR	CHHACHHRAULII	AQUA	77.34200	30.26800	13:35:00	D	5.70
91	YAMUNANAGAR	JAGADHRI	S-NPP	77.21735	30.27668	12:48:00	D	4.10

Details of residue burning events in Uttar Pradesh on 15-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	ALLAHABAD	BARA	METOP-2	81.65559	25.25037	20:22:00	N	12.00
2	ALLAHABAD	KORAWN	S-NPP	82.21182	24.98323	12:42:00	D	4.80
3	AMBEDKARNAGAR	AKBARPUR	S-NPP	82.41518	26.33179	01:30:00	N	0.60
4	AMBEDKARNAGAR	ALAPUR	S-NPP	82.93267	26.38625	12:42:00	D	7.50
5	AMBEDKARNAGAR	ALAPUR	S-NPP	82.93372	26.38927	12:42:00	D	4.00
6	AMBEDKARNAGAR	TANDA	S-NPP	82.56267	26.53841	12:42:00	D	2.00
7	AMBEDKARNAGAR	TANDA	S-NPP	82.57519	26.57246	12:42:00	D	5.10
8	AMETHI	GAURIGANJ	S-NPP	81.82866	26.29731	12:42:00	D	6.40
9	AMROHA	AMROHA	S-NPP	78.54451	28.92453	12:42:00	D	3.70
10	AMROHA	AMROHA	AQUA	78.64900	28.98900	13:35:00	D	6.00
11	AURAIYA	AURAIYA	AQUA	79.32800	26.61800	13:30:00	D	6.10
12	AURAIYA	BIDHUNA	S-NPP	79.65385	26.68126	01:30:00	N	0.80
13	AURAIYA	BIDHUNA	S-NPP	79.69614	26.69689	01:30:00	N	0.50
14	AURAIYA	BIDHUNA	S-NPP	79.63698	26.75721	01:30:00	N	0.30
15	AURAIYA	BIDHUNA	S-NPP	79.64213	26.76483	01:30:00	N	0.30
16	AZAMGARH	BURHANPUR	S-NPP	82.98752	26.15321	12:42:00	D	3.00
17	AZAMGARH	LALGANJ	S-NPP	83.05868	25.88443	12:42:00	D	3.70
18	AZAMGARH	MEHNAGAR	S-NPP	83.12788	25.78412	12:42:00	D	5.10
19	AZAMGARH	MEHNAGAR	S-NPP	83.08952	25.85664	12:42:00	D	2.40
20	AZAMGARH	PHULPUR	S-NPP	82.87363	25.91383	12:42:00	D	5.00
21	BAHRAICH	BAHRAICH	S-NPP	81.84792	27.44634	01:30:00	N	1.30
22	BAHRAICH	NANPARA	S-NPP	81.54690	27.81181	01:30:00	N	0.60
23	BALLIA	BALLIA	S-NPP	83.95831	25.76239	12:42:00	D	4.00
24	BALLIA	BALLIA	S-NPP	84.11058	25.81242	12:42:00	D	2.90
25	BALLIA	BALLIA	S-NPP	84.05334	25.88095	12:42:00	D	7.20
26	BALLIA	RASRA	S-NPP	83.80196	25.88918	12:42:00	D	3.00
27	BALLIA	RASRA	S-NPP	83.98515	25.89905	12:42:00	D	2.40
28	BALLIA	RASRA	AQUA	83.95500	25.96100	13:30:00	D	11.60
29	BALLIA	RASRA	AQUA	83.94800	25.97000	13:30:00	D	12.00
30	BALLIA	RASRA	S-NPP	83.93131	25.97139	12:42:00	D	3.50

31	BALLIA	SIKANDARPUR	S-NPP	84.00686	25.96605	12:42:00	D	3.10
32	BALLIA	SIKANDARPUR	S-NPP	84.12804	25.97285	12:42:00	D	9.30
33	BALLIA	SIKANDARPUR	S-NPP	83.97221	26.04247	12:42:00	D	1.50
34	BALRAMPUR	UTRAULA	S-NPP	82.37002	27.08868	01:30:00	N	0.60
35	BAREILLY	BAHERI	S-NPP	79.37637	28.83624	01:30:00	N	0.40
36	BAREILLY	BAHERI	S-NPP	79.45779	28.85268	01:30:00	N	0.50
37	BAREILLY	FARIDPUR	S-NPP	79.68006	28.22480	01:30:00	N	0.40
38	BAREILLY	NAWABGANJ	S-NPP	79.56907	28.59340	12:42:00	D	2.40
39	BASTI	BHANPUR	AQUA	82.73300	26.91000	13:30:00	D	10.20
40	BASTI	BHANPUR	AQUA	82.74700	26.91200	13:30:00	D	7.60
41	BASTI	BHANPUR	AQUA	82.73700	26.91700	13:30:00	D	18.20
42	BASTI	BHANPUR	S-NPP	82.58782	27.01930	01:30:00	N	0.50
43	BULANDSAHAR	SIYANA	S-NPP	78.02947	28.64150	12:42:00	D	6.80
44	DEORIA	DEORIA	S-NPP	83.90293	26.57192	12:42:00	D	1.50
45	DEORIA	DEORIA	S-NPP	83.71658	26.59414	12:42:00	D	3.90
46	DEORIA	DEORIA	S-NPP	83.92445	26.59763	12:42:00	D	5.00
47	DEORIA	DEORIA	S-NPP	83.95747	26.60360	12:42:00	D	2.30
48	DEORIA	DEORIA	S-NPP	83.81906	26.60505	12:42:00	D	2.90
49	DEORIA	DEORIA	S-NPP	83.79691	26.69130	12:42:00	D	4.00
50	DEORIA	DEORIA	S-NPP	83.80564	26.69667	12:42:00	D	11.50
51	DEORIA	DEORIA	S-NPP	83.80484	26.70031	12:42:00	D	5.40
52	ETAWAH	ETAWAH	S-NPP	79.12343	26.86539	12:42:00	D	3.50
53	FATEHPUR	FATEHPUR	S-NPP	80.96786	25.98153	12:42:00	D	3.80
54	GONDA	GONDA	S-NPP	81.95937	27.34799	12:42:00	D	5.10
55	GONDA	MANKAPUR	METOP-2	82.54368	26.95717	20:22:00	N	8.00
56	GORAKHPUR	CAMPIERGANJ	S-NPP	83.37440	26.95226	12:42:00	D	6.10
57	GORAKHPUR	GOLA	S-NPP	83.26617	26.40317	12:42:00	D	2.50
58	GORAKHPUR	GORAKHPUR	AQUA	83.59100	26.75300	13:30:00	D	19.20
59	GORAKHPUR	GORAKHPUR	S-NPP	83.58799	26.75812	12:42:00	D	2.20
60	GORAKHPUR	GORAKHPUR	S-NPP	83.53072	26.80565	01:30:00	N	0.20
61	GORAKHPUR	GORAKHPUR	S-NPP	83.52925	26.80631	01:30:00	N	0.30
62	GORAKHPUR	GORAKHPUR	S-NPP	83.49972	26.84348	12:42:00	D	1.30
63	GORAKHPUR	GORAKHPUR	METOP-2	83.49970	26.84937	20:22:00	N	6.00

64	GORAKHPUR	GORAKHPUR	S-NPP	83.52910	26.85139	01:30:00	N	0.20
65	GORAKHPUR	GORAKHPUR	S-NPP	83.53177	26.88914	01:30:00	N	1.20
66	GORAKHPUR	SAHJANWA	S-NPP	83.20072	26.75904	01:30:00	N	1.00
67	HAPUR	GARHMUKTESAR	AQUA	78.09800	28.75600	13:35:00	D	5.40
68	HARDOI	HARDOI	S-NPP	80.24725	27.36592	01:30:00	N	0.80
69	JALAUN	JALAUN	S-NPP	79.26575	26.11248	01:30:00	N	0.40
70	JALAUN	KALPI	S-NPP	79.50803	26.18198	12:42:00	D	6.80
71	JALAUN	KALPI	AQUA	79.51800	26.23000	13:30:00	D	5.10
72	JALAUN	KALPI	AQUA	79.45700	26.25000	13:30:00	D	5.00
73	JALAUN	KONCH	S-NPP	79.03609	25.97967	01:30:00	N	0.50
74	JALAUN	MADHOGARH	S-NPP	79.23817	26.18946	01:30:00	N	0.80
75	JAUNPUR	BADLAPUR	S-NPP	82.41514	25.87835	12:42:00	D	1.40
76	JAUNPUR	SHHGANJ	S-NPP	82.76832	25.87790	12:42:00	D	3.90
77	JAUNPUR	SHHGANJ	S-NPP	82.64743	26.06115	12:42:00	D	3.10
78	JAUNPUR	SHHGANJ	S-NPP	82.46312	26.07542	12:42:00	D	3.70
79	JAUNPUR	SHHGANJ	S-NPP	82.54850	26.12666	12:42:00	D	6.20
80	JHANSI	MOTH	S-NPP	78.85690	25.64478	12:42:00	D	6.00
81	JHANSI	MOTH	S-NPP	78.87885	25.68584	12:42:00	D	6.50
82	JHANSI	MOTH	S-NPP	78.87695	25.68617	12:42:00	D	8.90
83	JHANSI	MOTH	S-NPP	78.99194	25.69975	12:42:00	D	14.40
84	JHANSI	MOTH	S-NPP	78.98974	25.70083	12:42:00	D	10.00
85	JHANSI	MOTH	S-NPP	78.99582	25.70218	12:42:00	D	10.00
86	JHANSI	MOTH	S-NPP	78.87926	25.70225	12:42:00	D	4.90
87	JHANSI	MOTH	S-NPP	79.00285	25.70723	12:42:00	D	11.10
88	JHANSI	MOTH	S-NPP	78.97503	25.70788	12:42:00	D	5.50
89	JHANSI	MOTH	S-NPP	78.99546	25.71079	12:42:00	D	11.00
90	JHANSI	MOTH	S-NPP	78.99326	25.71191	12:42:00	D	8.60
91	JHANSI	MOTH	S-NPP	78.84933	25.71642	12:42:00	D	17.80
92	JHANSI	MOTH	S-NPP	78.84411	25.73605	12:42:00	D	13.10
93	JHANSI	MOTH	AQUA	78.93800	25.80000	13:30:00	D	7.00
94	JHANSI	MOTH	AQUA	78.93700	25.80900	13:30:00	D	6.40
95	JHANSI	MOTH	AQUA	78.94700	25.81100	13:30:00	D	7.70
96	KANPUR	BILHAUR	AQUA	80.03200	26.72300	13:30:00	D	11.00

97	KANPUR	BILHAUR	S-NPP	79.95770	26.77272	12:42:00	D	8.50
98	KANPUR	BILHAUR	S-NPP	79.95614	26.77303	12:42:00	D	4.40
99	KANPUR	GHATAMPUR	S-NPP	80.05190	26.24235	01:30:00	N	0.80
100	KANPUR DEHAT	DERAPUR	S-NPP	79.75981	26.53101	12:42:00	D	3.00
101	KANPUR DEHAT	RASULABAD	S-NPP	79.93359	26.67744	12:42:00	D	2.80
102	KANPUR DEHAT	RASULABAD	S-NPP	79.93645	26.67827	12:42:00	D	4.40
103	KANPUR DEHAT	RASULABAD	AQUA	79.78800	26.72800	13:30:00	D	10.90
104	KANPUR DEHAT	RASULABAD	AQUA	79.79100	26.73600	13:30:00	D	6.10
105	KAUSHAMBI	MANJHANPUR	AQUA	81.23000	25.45300	13:30:00	D	7.30
106	KHERI	DHAURAHRA	S-NPP	81.12653	28.06196	12:42:00	D	1.80
107	KHERI	GOLA	S-NPP	80.37895	27.91051	12:42:00	D	1.30
108	KHERI	GOLA	S-NPP	80.47925	28.14958	12:42:00	D	5.60
109	KHERI	GOLA	S-NPP	80.47052	28.18101	01:30:00	N	0.40
110	KHERI	GOLA	S-NPP	80.30271	28.21200	01:30:00	N	1.90
111	KHERI	NIGHASAN	S-NPP	80.75315	28.28849	12:42:00	D	1.60
112	KUSHINAGAR	HATA	S-NPP	83.63677	26.67833	01:30:00	N	0.30
113	KUSHINAGAR	HATA	S-NPP	83.79601	26.71766	12:42:00	D	3.10
114	KUSHINAGAR	HATA	S-NPP	83.73038	26.74382	12:42:00	D	2.10
115	KUSHINAGAR	HATA	S-NPP	83.58717	26.76179	12:42:00	D	9.40
116	KUSHINAGAR	HATA	S-NPP	83.72019	26.79746	12:42:00	D	2.00
117	KUSHINAGAR	HATA	S-NPP	83.71938	26.80112	12:42:00	D	2.10
118	KUSHINAGAR	HATA	S-NPP	83.54183	26.85302	01:30:00	N	0.40
119	KUSHINAGAR	HATA	S-NPP	83.67730	26.87141	01:30:00	N	0.80
120	KUSHINAGAR	HATA	S-NPP	83.62070	26.89240	12:42:00	D	2.40
121	KUSHINAGAR	KASAYA	S-NPP	83.97620	26.82113	12:42:00	D	3.80
122	KUSHINAGAR	PADRAUNA	S-NPP	83.91553	26.94940	12:42:00	D	2.70
123	KUSHINAGAR	PADRAUNA	S-NPP	83.90488	27.26296	12:42:00	D	3.70
124	KUSHINAGAR	TAMKUHI RAJ	S-NPP	84.04755	26.73278	12:42:00	D	3.20
125	LUCKNOW	MOHANLAL GANJ	S-NPP	81.09776	26.68027	12:42:00	D	2.80
126	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.65323	26.95758	12:42:00	D	4.30
127	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.65534	27.00364	01:30:00	N	0.60
128	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.65394	27.00452	01:30:00	N	0.40
129	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.61341	27.10038	01:30:00	N	0.40

130	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.59339	27.19907	12:42:00	D	8.10
131	MAHARAJGANJ	NAUTANWA	S-NPP	83.37970	27.32304	12:42:00	D	2.30
132	MAHARAJGANJ	NAUTANWA	S-NPP	83.45612	27.35670	01:30:00	N	0.70
133	MAHARAJGANJ	NAUTANWA	S-NPP	83.45470	27.35708	01:30:00	N	0.50
134	MAHARAJGANJ	NICHLAUL	S-NPP	83.70010	27.22786	01:30:00	N	0.80
135	MAHARAJGANJ	NICHLAUL	S-NPP	83.69605	27.22844	01:30:00	N	0.90
136	MAHARAJGANJ	NICHLAUL	S-NPP	83.70071	27.23123	01:30:00	N	0.80
137	MAHARAJGANJ	NICHLAUL	S-NPP	83.69667	27.23181	01:30:00	N	0.90
138	MAINPURI	BHOGAON	S-NPP	79.18025	27.10626	12:42:00	D	2.70
139	MAU	GHOSI	AQUA	83.55500	26.09800	13:30:00	D	15.60
140	MAU	GHOSI	S-NPP	83.46733	26.13215	12:42:00	D	5.40
141	MEERUT	SARDHANA	S-NPP	77.56541	29.10165	12:42:00	D	4.00
142	MEERUT	SARDHANA	S-NPP	77.56757	29.16498	12:42:00	D	3.40
143	MUZAFARNAGAR	BUDHANA	AQUA	77.50500	29.21400	13:35:00	D	5.90
144	MUZAFARNAGAR	MUZAFFARNAGAR	AQUA	77.53800	29.62400	13:35:00	D	4.40
145	PRATAPGARH	PRATAPGARH	AQUA	81.62500	25.90800	13:30:00	D	14.40
146	PRATAPGARH	PRATAPGARH	S-NPP	81.88734	25.77074	12:42:00	D	1.70
147	RAIBEARELI	MAHARAJGANG	AQUA	81.34900	26.45300	13:30:00	D	8.60
148	RAIBEARELI	MAHARAJGANG	METOP-2	81.30618	26.47208	20:22:00	N	6.00
149	RAIBEARELI	SALON	S-NPP	81.54430	26.10029	12:42:00	D	2.60
150	RAIBEARELI	TILOI	S-NPP	81.55872	26.34175	01:30:00	N	2.40
151	RAIBEARELI	TILOI	AQUA	81.38800	26.58200	13:30:00	D	6.70
152	RAMPUR	BILASPUR	S-NPP	79.33765	28.89127	01:30:00	N	1.80
153	RAMPUR	MILAK	S-NPP	79.25815	28.73727	01:30:00	N	0.70
154	RAMPUR	MILAK	S-NPP	79.25609	28.73828	01:30:00	N	0.70
155	RAMPUR	TANDA	S-NPP	78.98959	29.09787	12:42:00	D	4.30
156	SANTKABIRNAGAR	KHALILABAD	S-NPP	82.92717	26.88903	12:42:00	D	4.60
157	SANTKABIRNAGAR	KHALILABAD	S-NPP	82.96888	26.89679	12:42:00	D	2.20
158	SANTKABIRNAGAR	MEHDawal	S-NPP	83.00867	26.88844	12:42:00	D	2.20
159	SHAHJAHANPUR	PUWANYA	S-NPP	80.11607	28.12080	01:30:00	N	1.00
160	SHAHJAHANPUR	PUWANYA	S-NPP	80.11667	28.12180	01:30:00	N	0.70
161	SHAMLI	SHAMLI	AQUA	77.46500	29.56700	13:35:00	D	7.60
162	SHARANPUR	SHARANPUR	AQUA	77.64800	29.88000	13:35:00	D	3.90

163	SHARANPUR	SHARANPUR	AQUA	77.59400	29.89100	13:35:00	D	4.80
164	SHARANPUR	SHARANPUR	AQUA	77.65000	29.92600	13:35:00	D	4.60
165	SHRAWASTI	BHINGA	S-NPP	81.97787	27.80057	01:30:00	N	0.60
166	SIDDHARTHANAGAR	BANSI	S-NPP	82.96880	27.06391	12:42:00	D	3.30
167	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	82.73676	27.18124	12:42:00	D	2.30
168	SIDDHARTHANAGAR	ITWA	S-NPP	82.52500	27.30348	12:42:00	D	3.00
169	SIDDHARTHANAGAR	ITWA	S-NPP	82.61102	27.34395	12:42:00	D	6.40
170	SIDDHARTHANAGAR	ITWA	S-NPP	82.65186	27.38357	12:42:00	D	1.60
171	SITAPUR	BISWAN	S-NPP	80.89355	27.56033	12:42:00	D	2.90
172	SULTANPUR	KADIRPUR	S-NPP	82.46033	26.07675	12:42:00	D	3.80
173	SULTANPUR	SULTANPUR	S-NPP	81.97982	26.22617	12:42:00	D	2.70
174	UNNAO	BIGHAPUR	S-NPP	80.67554	26.40886	12:42:00	D	1.90
175	UNNAO	BIGHAPUR	AQUA	80.67300	26.41100	13:30:00	D	6.90
176	UNNAO	SAFIPUR	S-NPP	80.25253	26.97757	12:42:00	D	4.90

The study used images received from following Satellites at IARI Satellite Ground Station

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375 / 750	Both
2.	Terra	MODIS	1000	Both
3.	Aqua	MODIS	1000	Both
4.	NOAA – 18	AVHRR	1000	Night
5.	NOAA – 19	AVHRR	1000	Night
6.	Metop - 1	AVHRR	1000	Night
7.	Metop - 2	AVHRR	1000	Night

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Softcopy of this report and latest statistics can be seen on <http://creams.iari.res.in>

GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website: <http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

(Part of KRISHI Portal: <https://krishi.icar.gov.in> initiative)
