



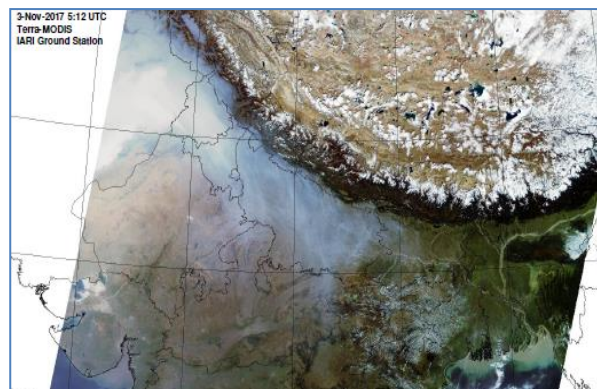
**Bulletin
No. 60**

**Events Date:
29-Nov-2020**

**Issued on:
30-Nov-2020**



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



Prepared by:

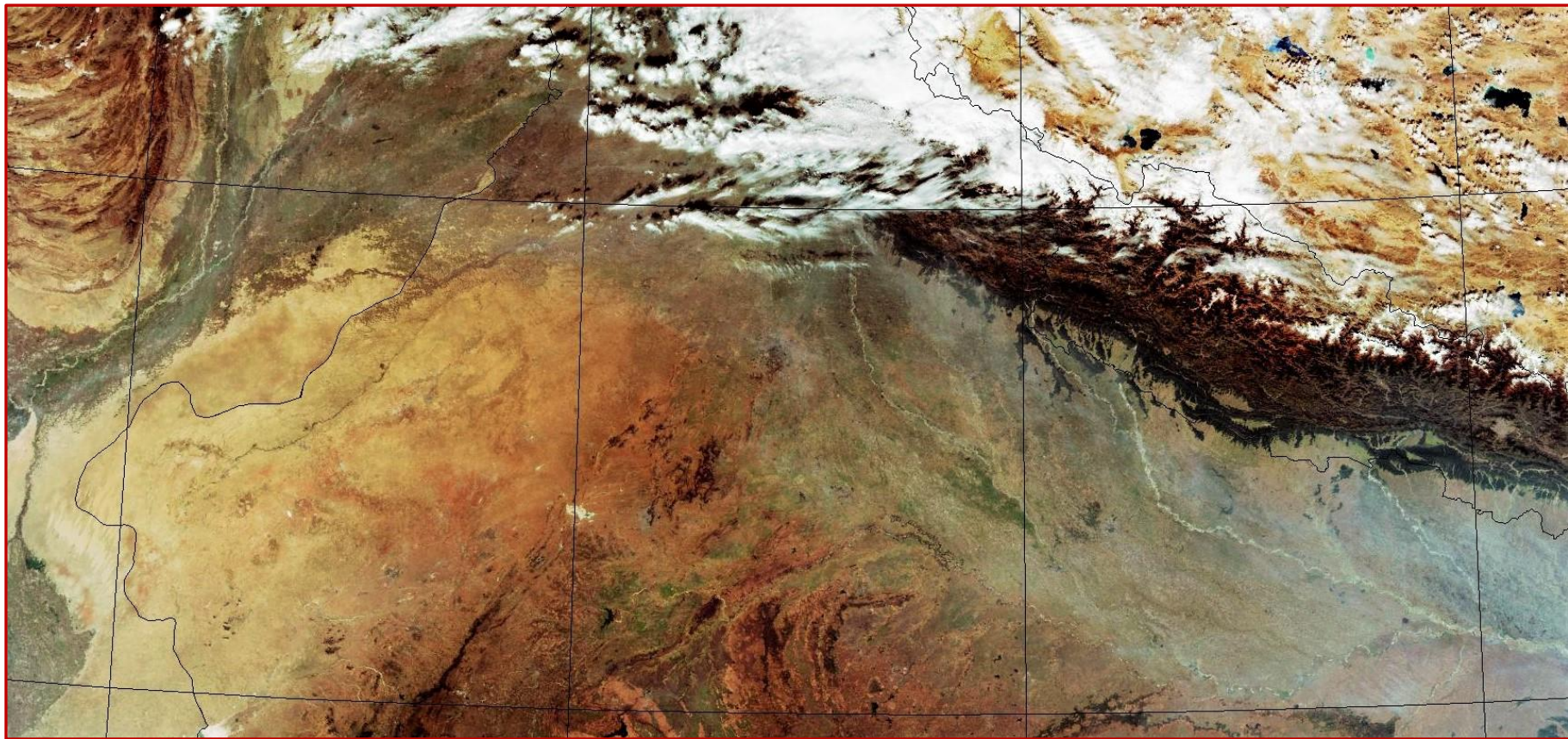
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

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

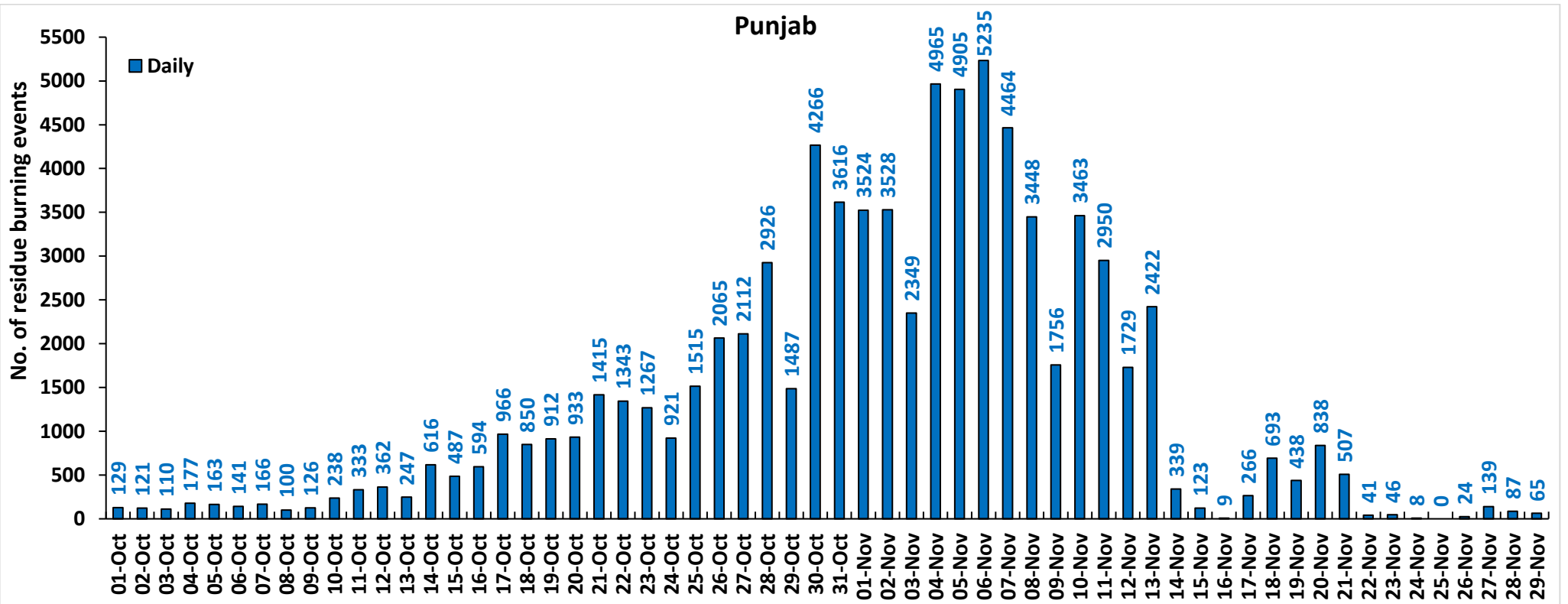
Highlights for 29-November-2020

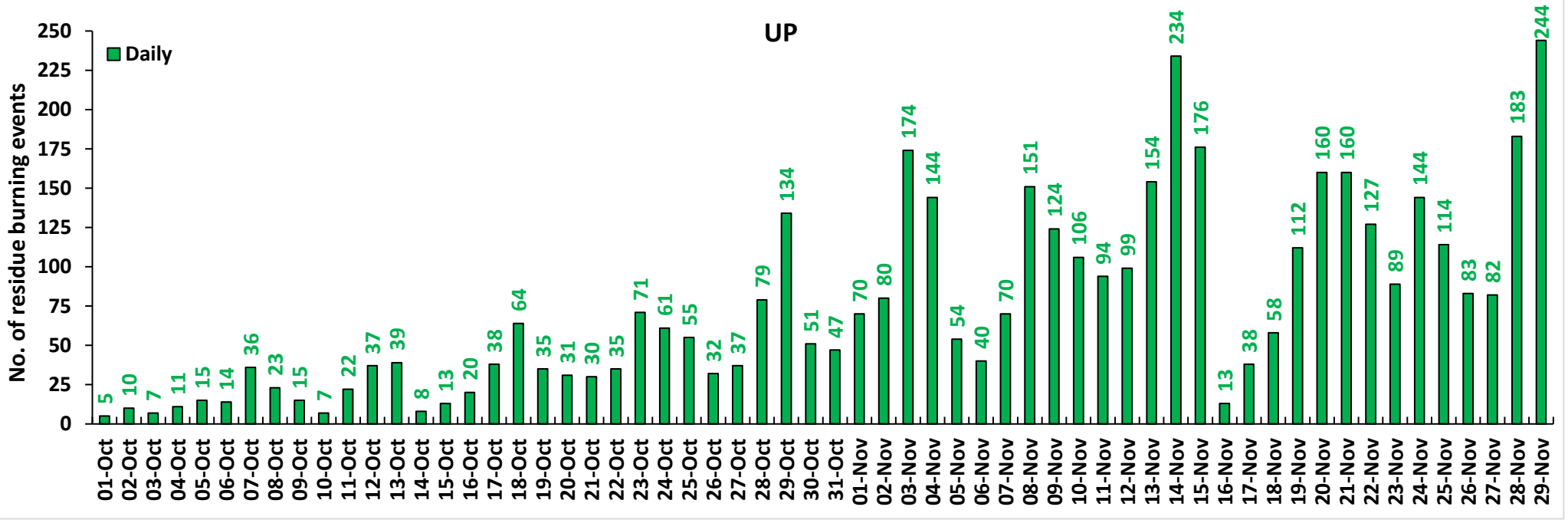
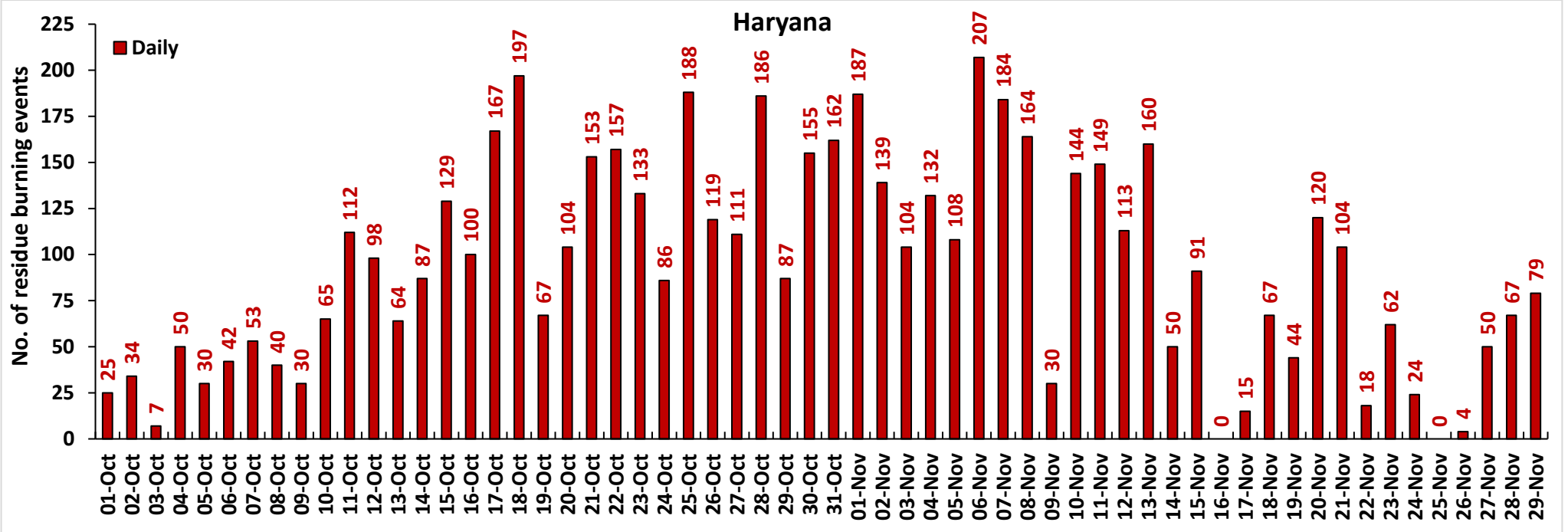
- Satellites detected **388** residue burning events in the three study States on **29-Nov-2020**.
- The state wise events detected on **29-Nov-2020** were **65** in Punjab, **79** in Haryana and **244** in UP.
- The number of events has increased from **337** on **28-Nov-2020** to **388** on **29-Nov-2020** in the three states.
- Fazilka in Punjab, Sirsa in Haryana and Chandauli in UP reported the highest number of events on **29-Nov-2020**.
- Total **89178** burning events were detected in the three States between **01-Oct-2020** and **29-Nov-2020**, which are distributed as **79065**, **5654** and **4459** in Punjab, Haryana and UP, respectively.
- In Haryana the cumulative number of burning events between **01-Oct** and **29-Nov 2020** were lower than in **2019**, while in Punjab and UP the cumulative number of events were more than in **2019**.

[SNPP \(VIIRS\) Satellite image of North India Acquired on 29-Nov-2020 at 13:24 IST by IARI Ground Station](#)



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

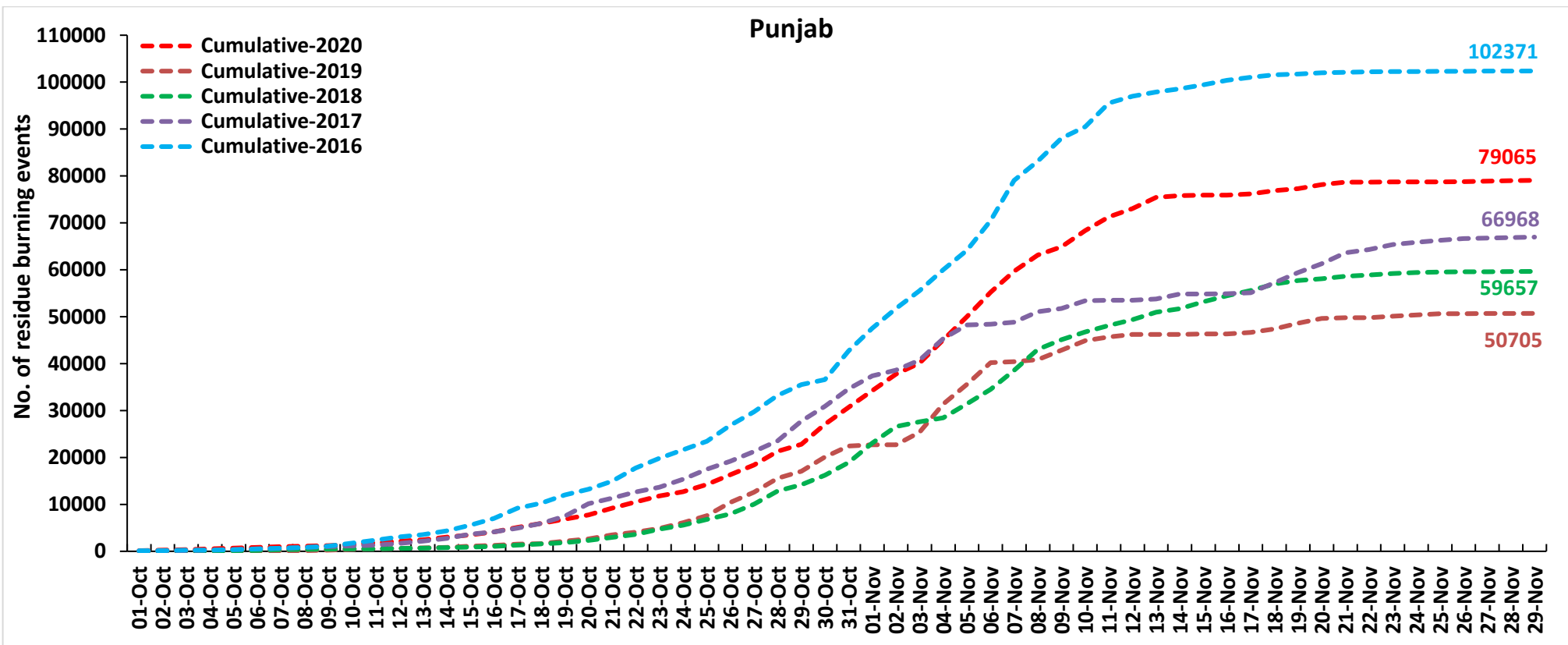




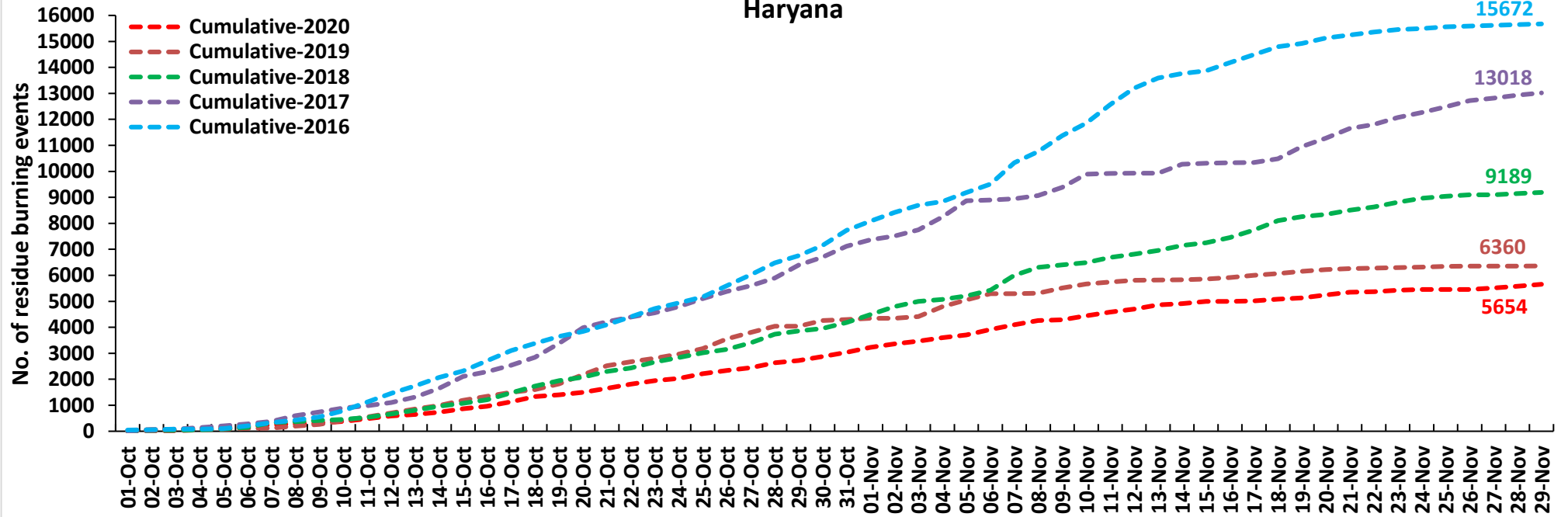
Comparison of residue burning events in current year (2020) with previous years (2019, 2018, 2017 & 2016) for the three study States

(01-Oct to 29-Nov)

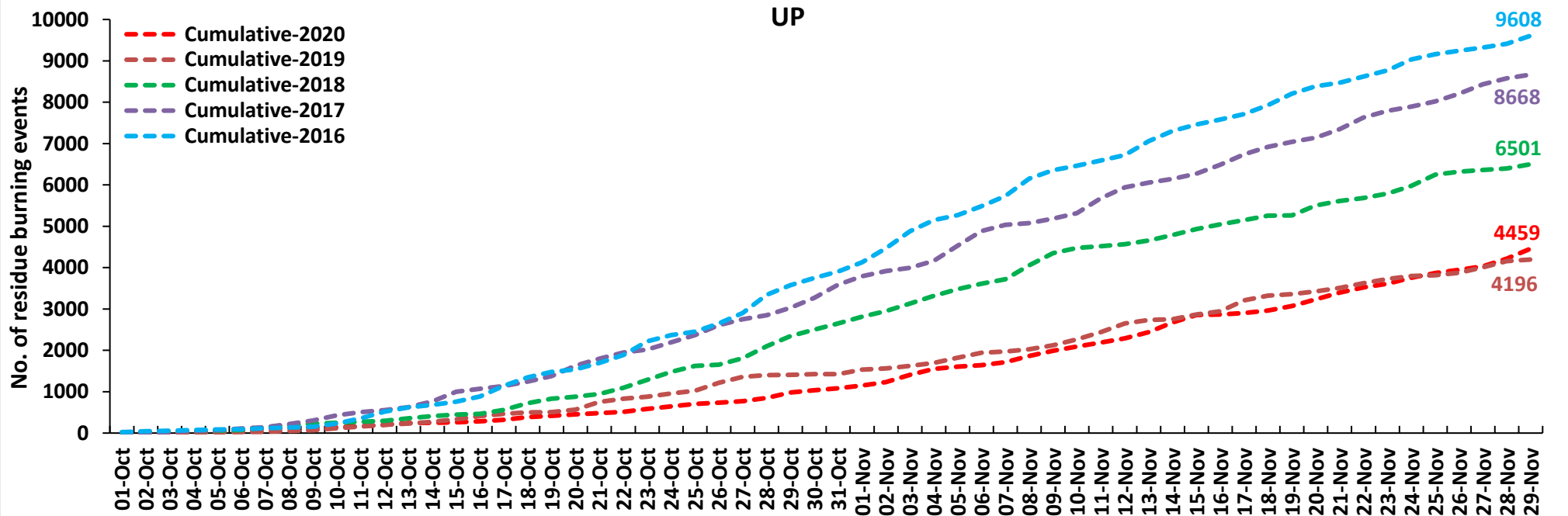
Punjab



Haryana

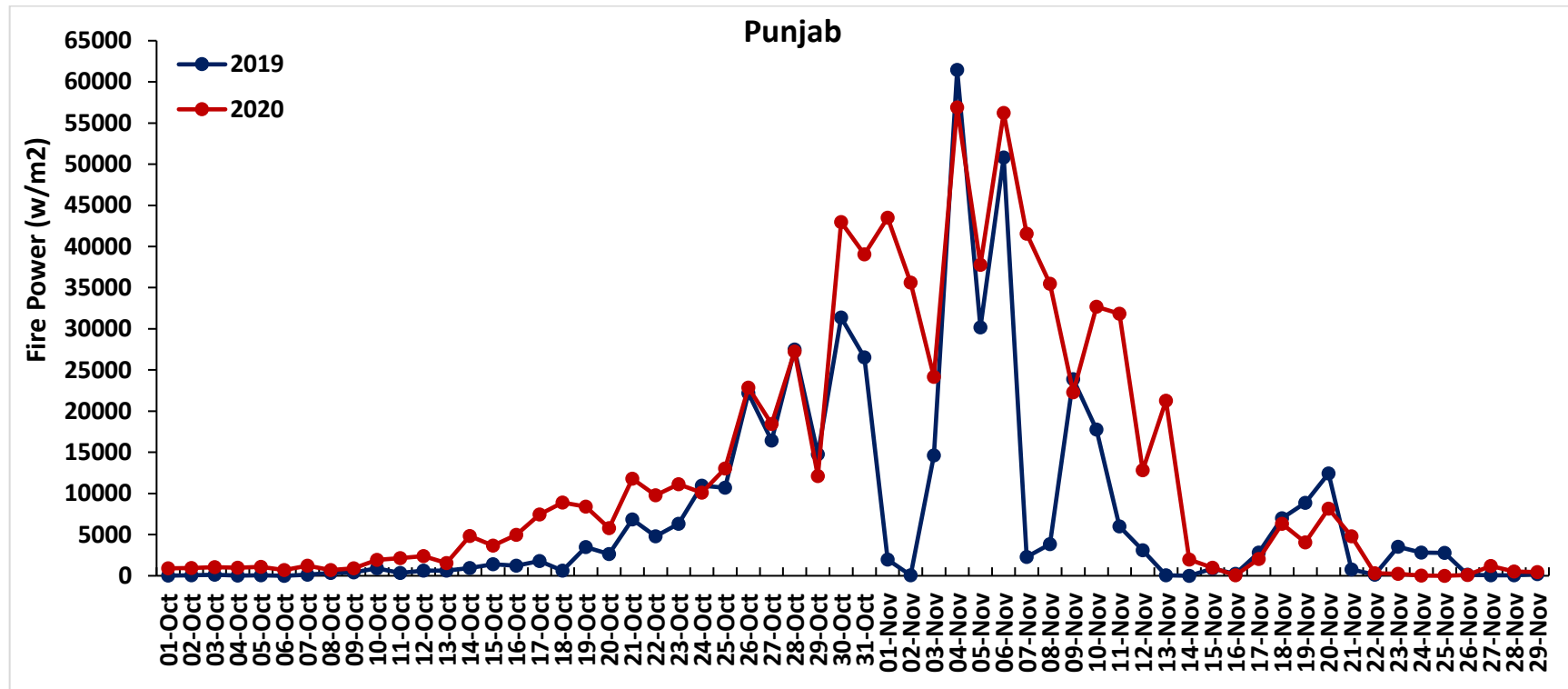


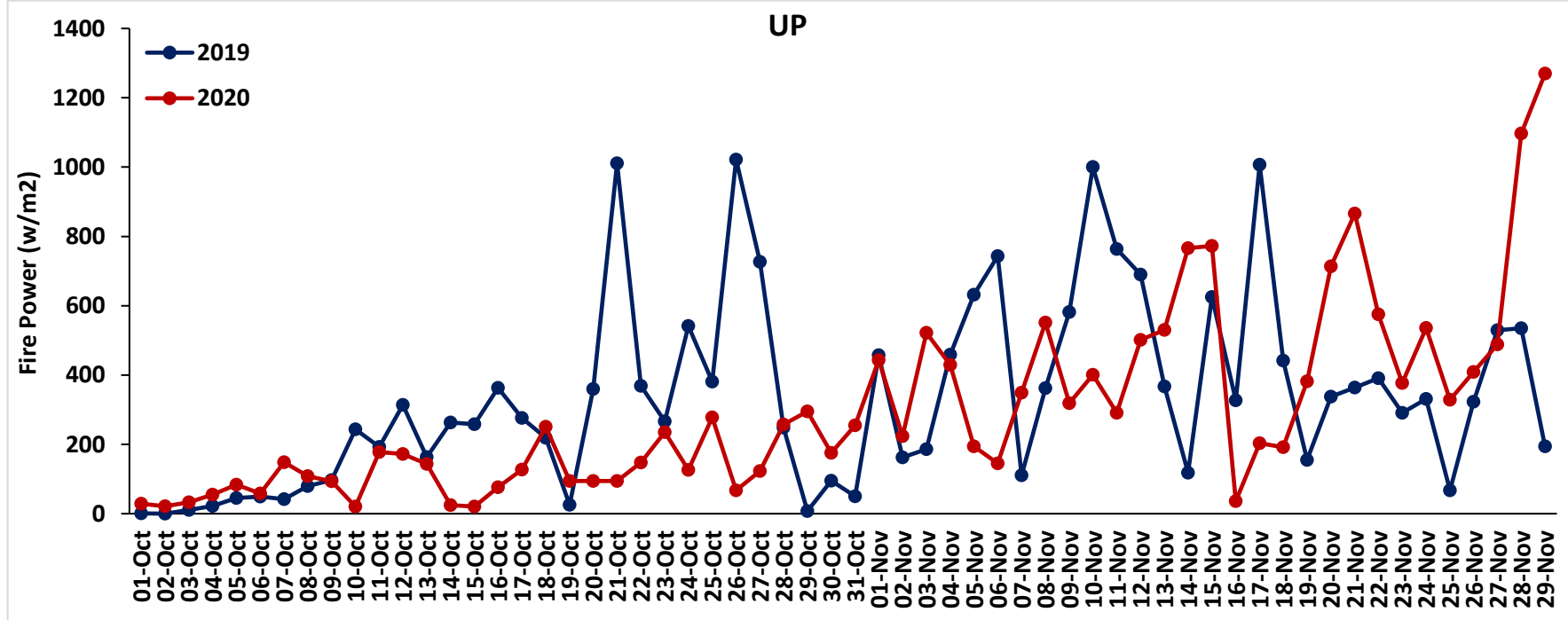
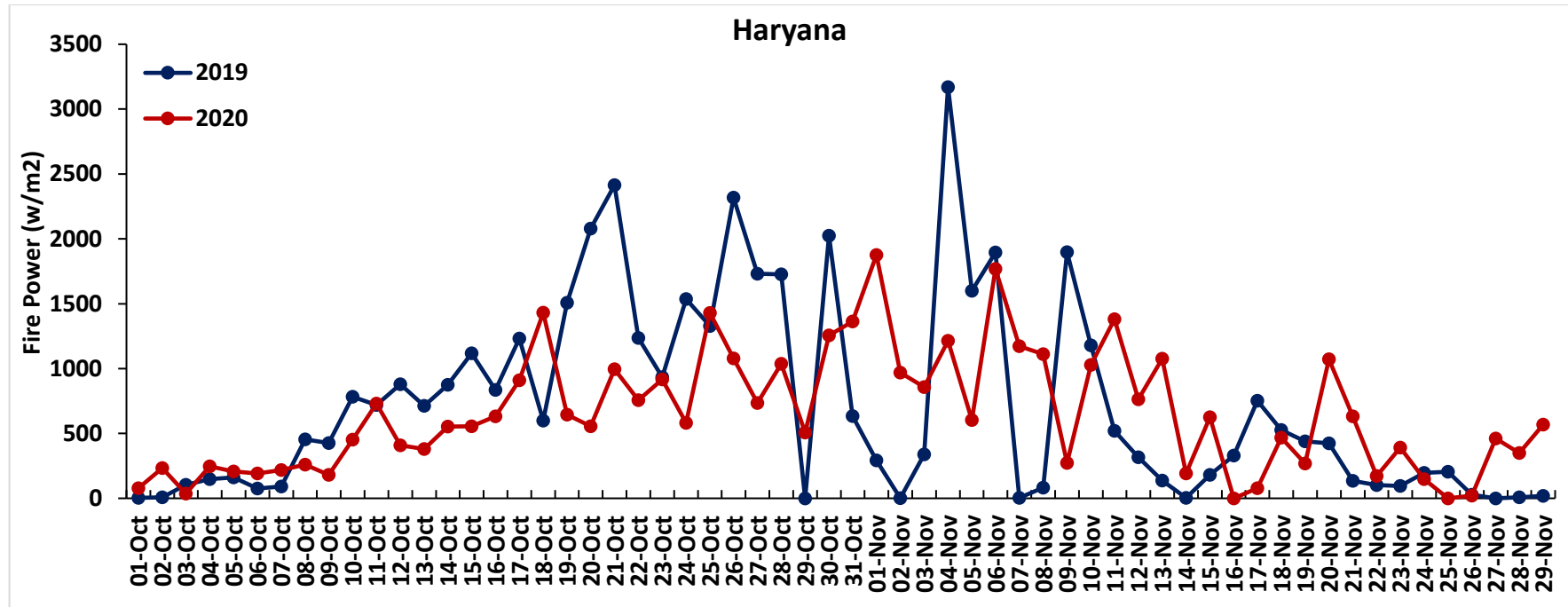
UP



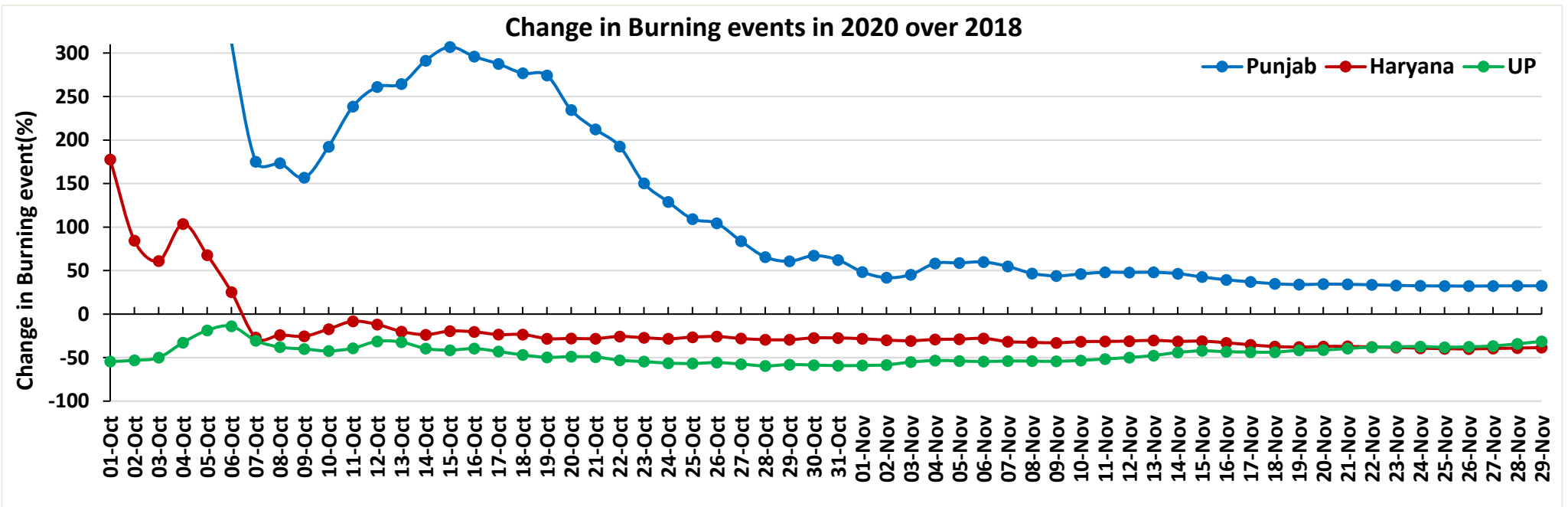
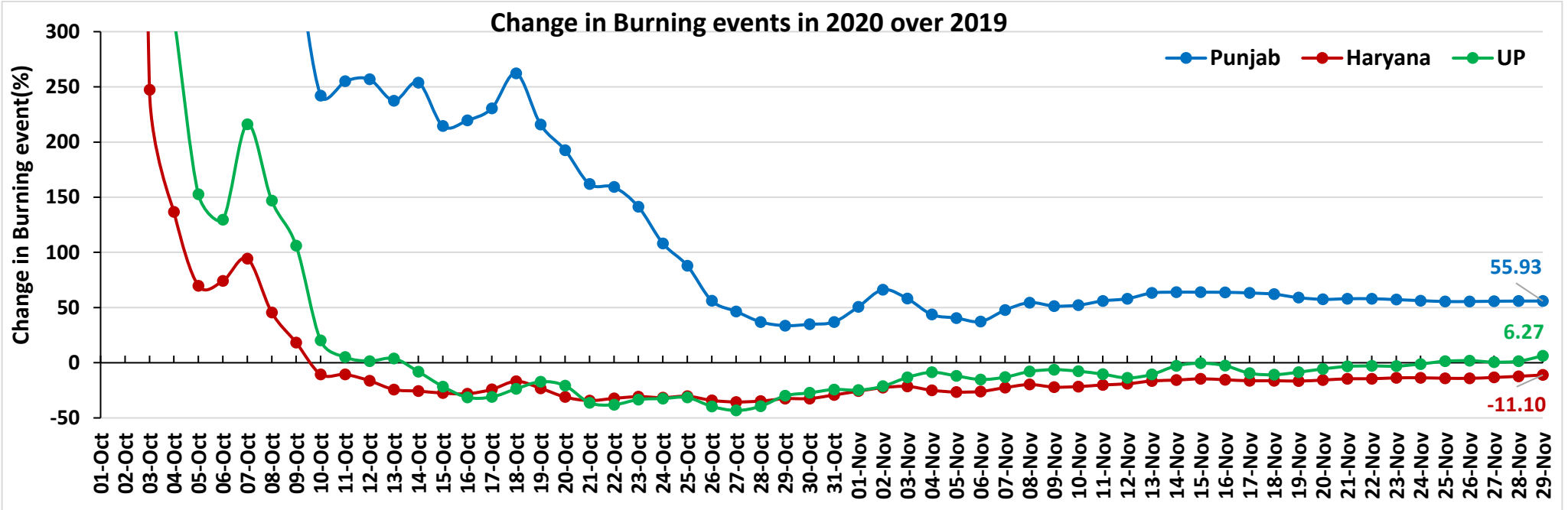
Comparison of Fire Intensity of residue burning events in current year (2020) with previous year (2019)
For the three study States

(01-Oct to 29-Nov)

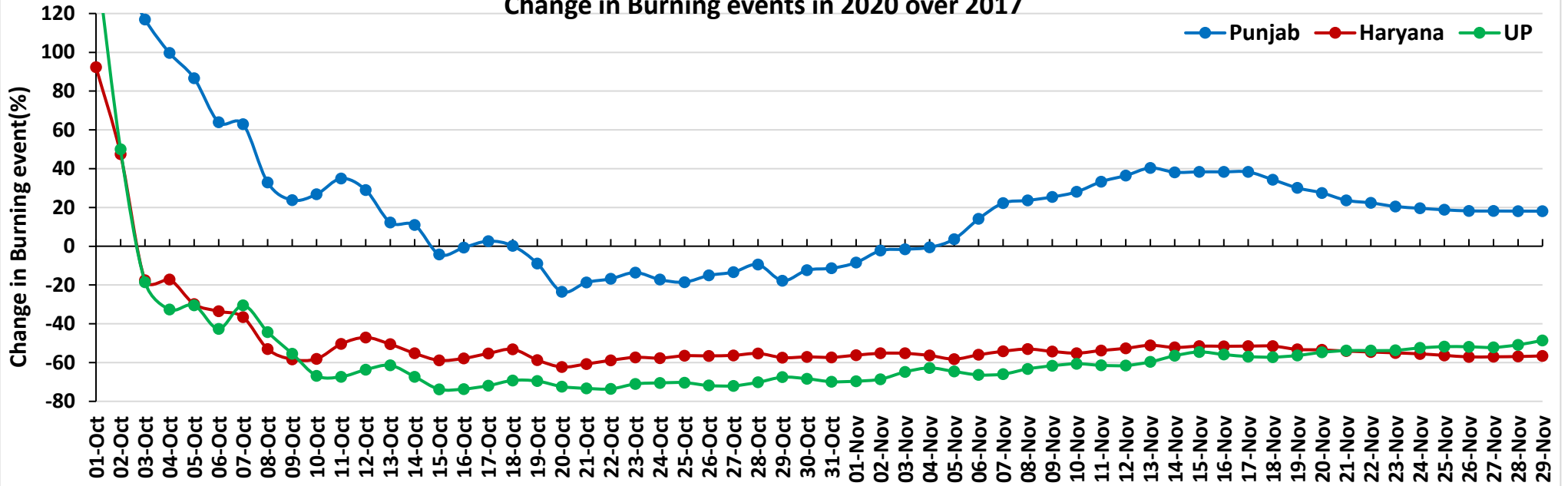




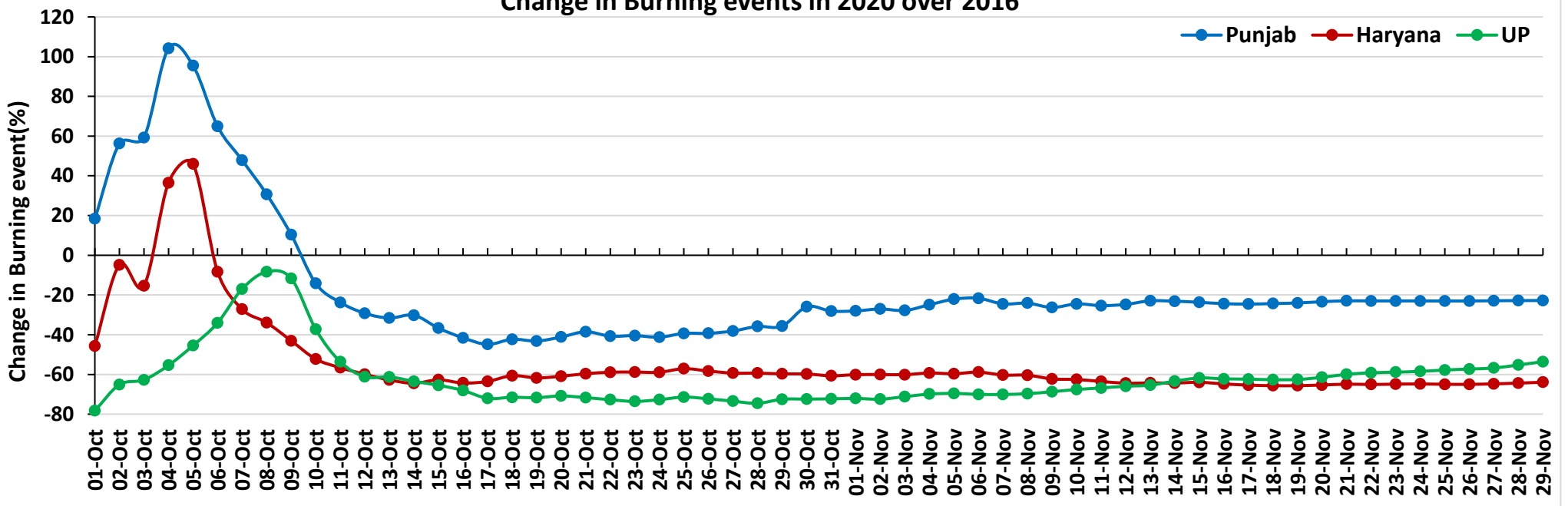
Percent Change in Burning events in 2020 over 2019, 2018, 2017 and 2016 (Daily Cumulative)



Change in Burning events in 2020 over 2017

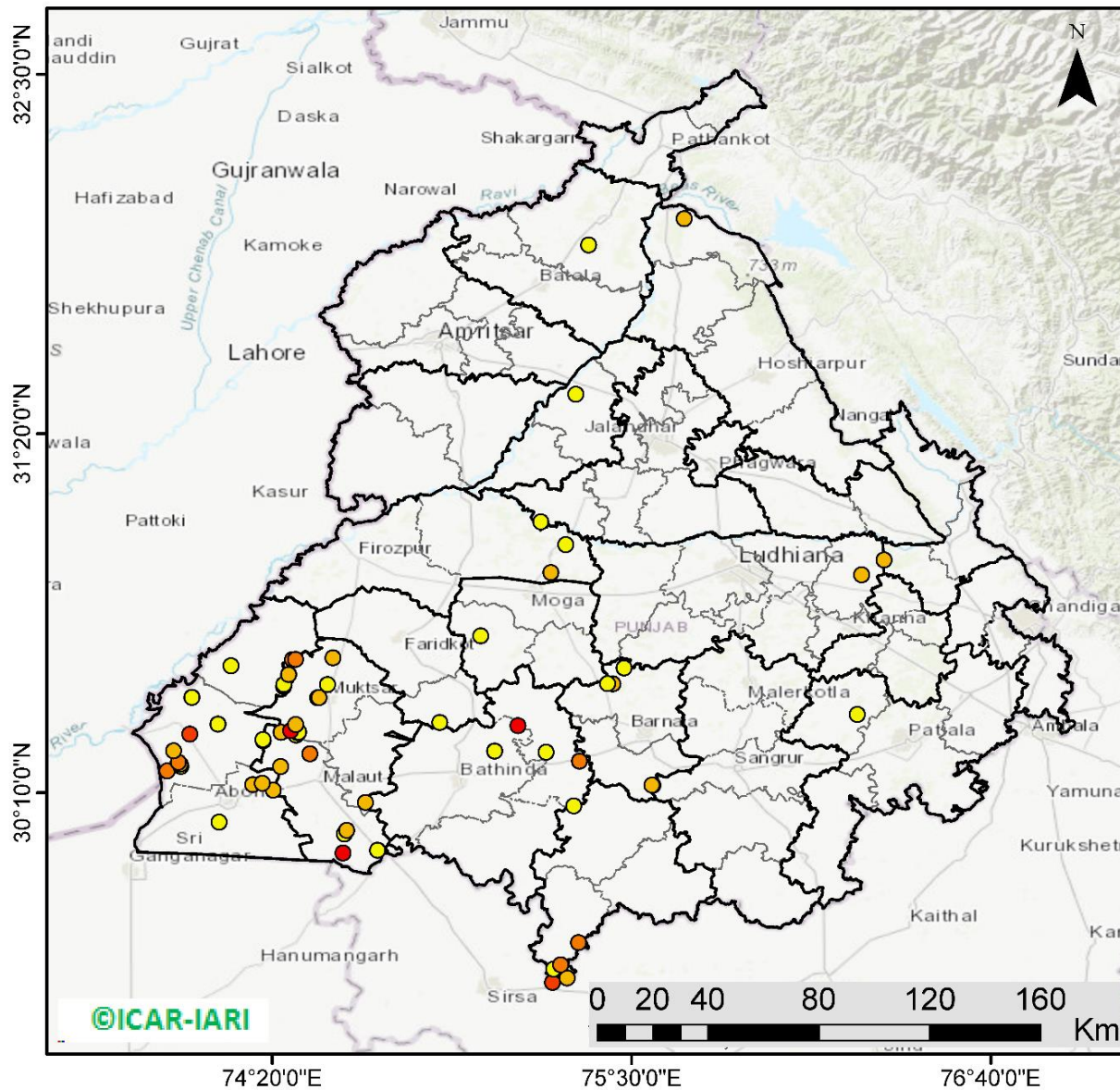


Change in Burning events in 2020 over 2016



(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



65 burning events detected in Punjab on 29th November 2020

Fire Intensity (W/m²)

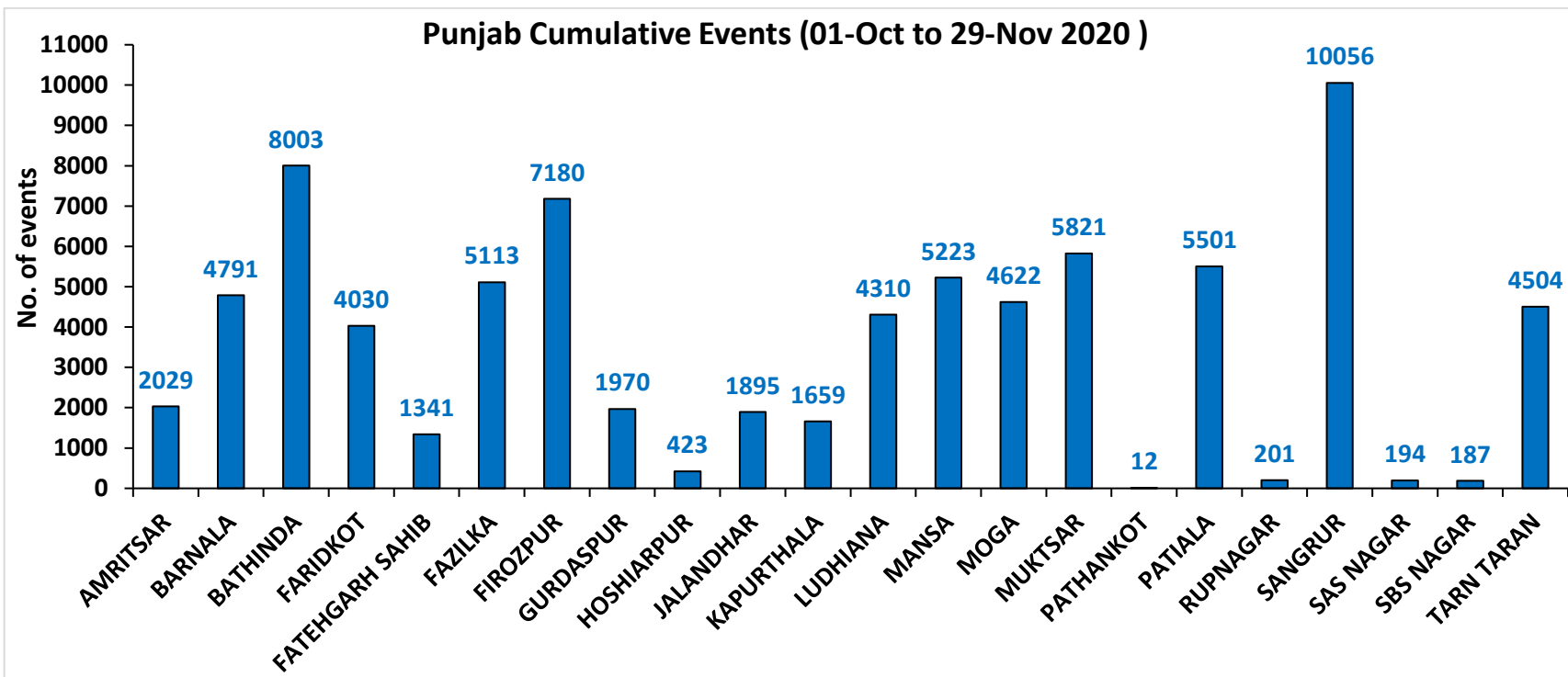
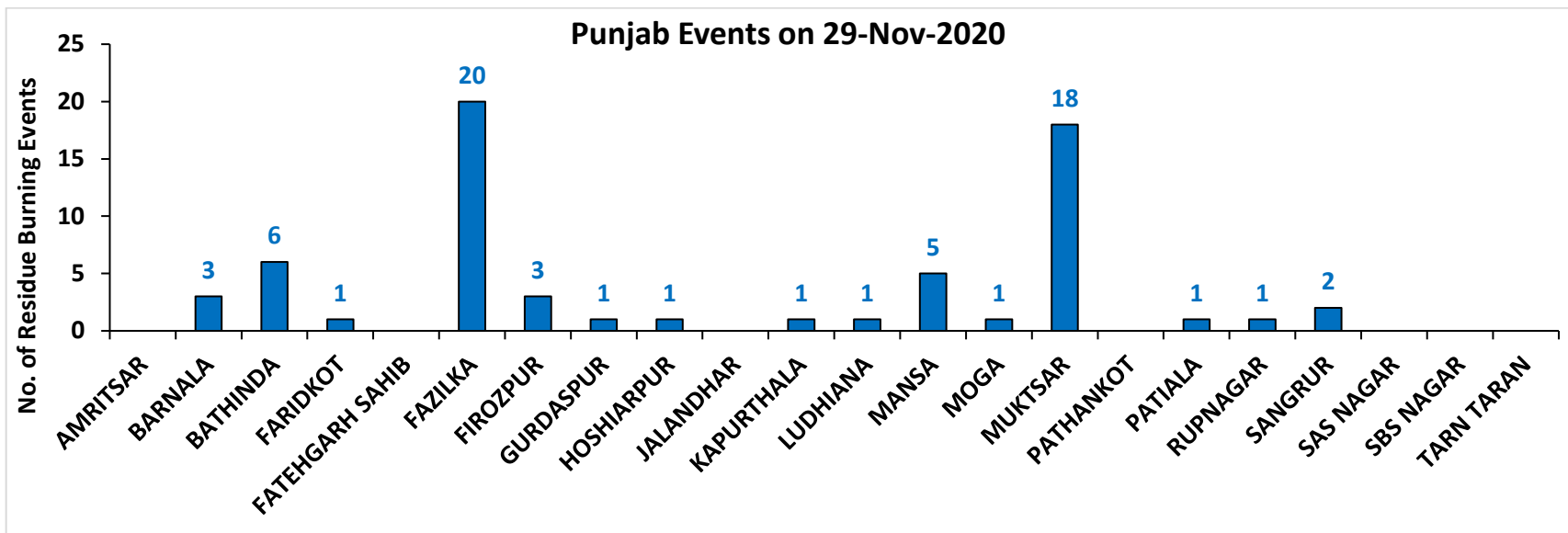
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

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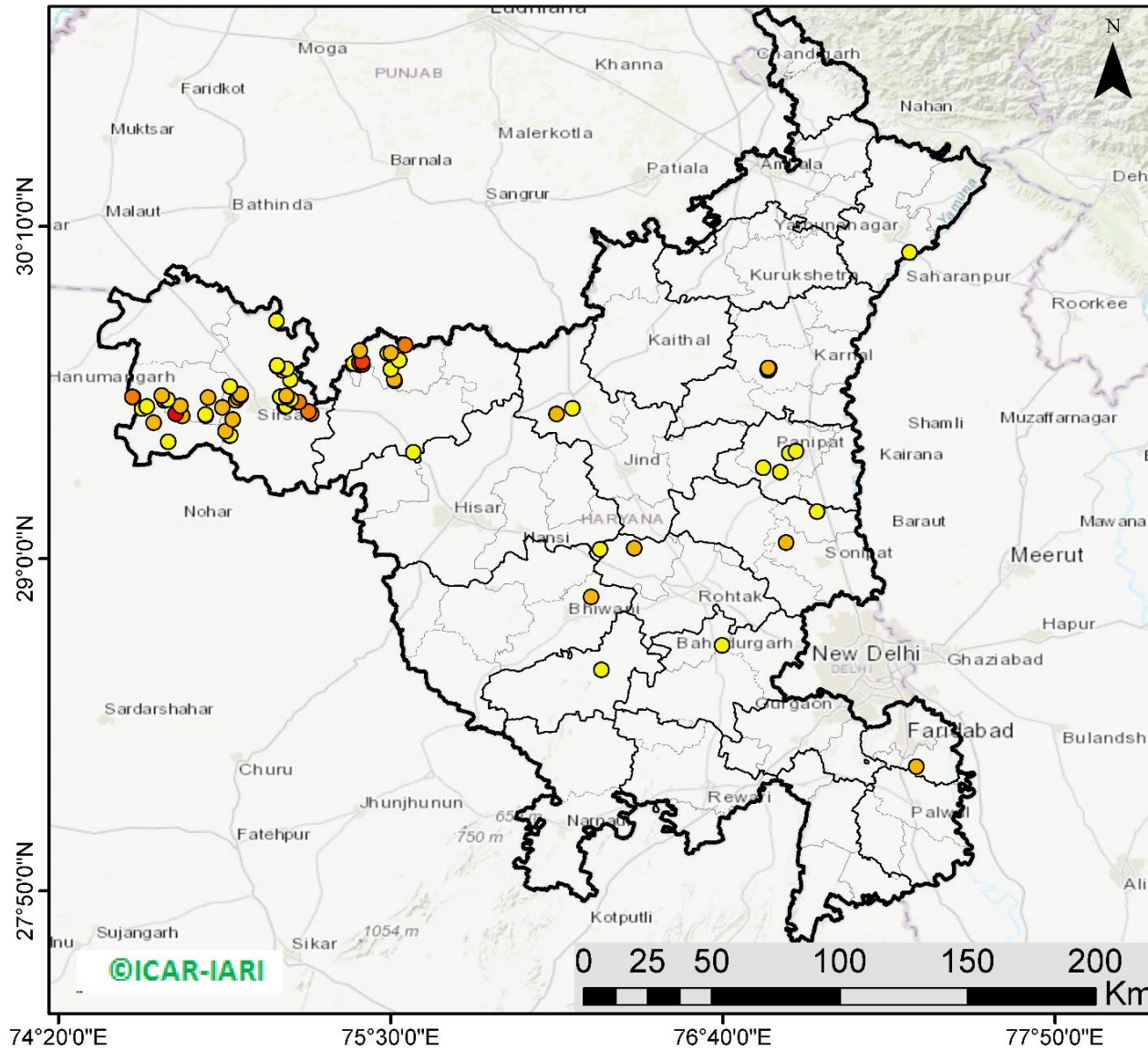
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Punjab (01-Oct to 29-Nov 2020)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



79 burning events detected in Haryana on 29th November 2020

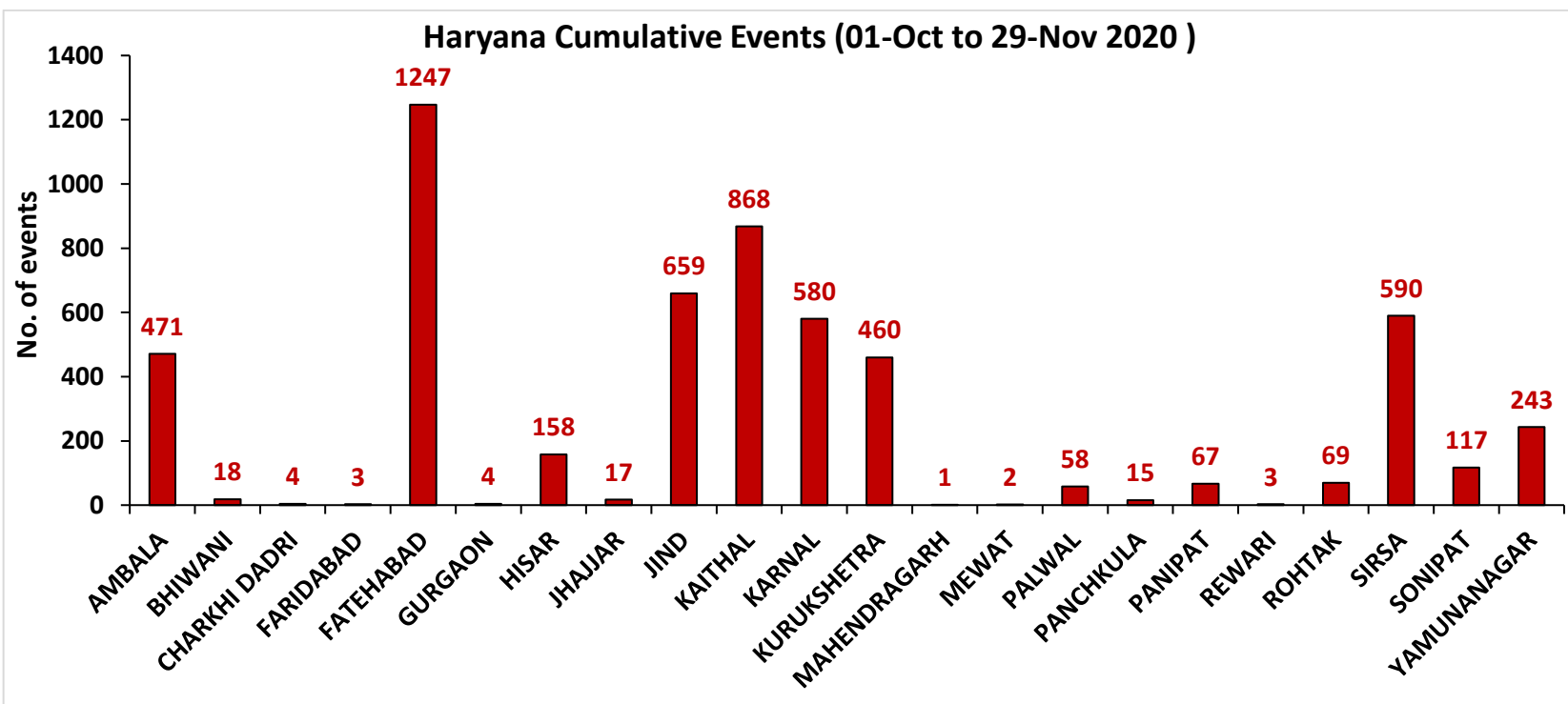
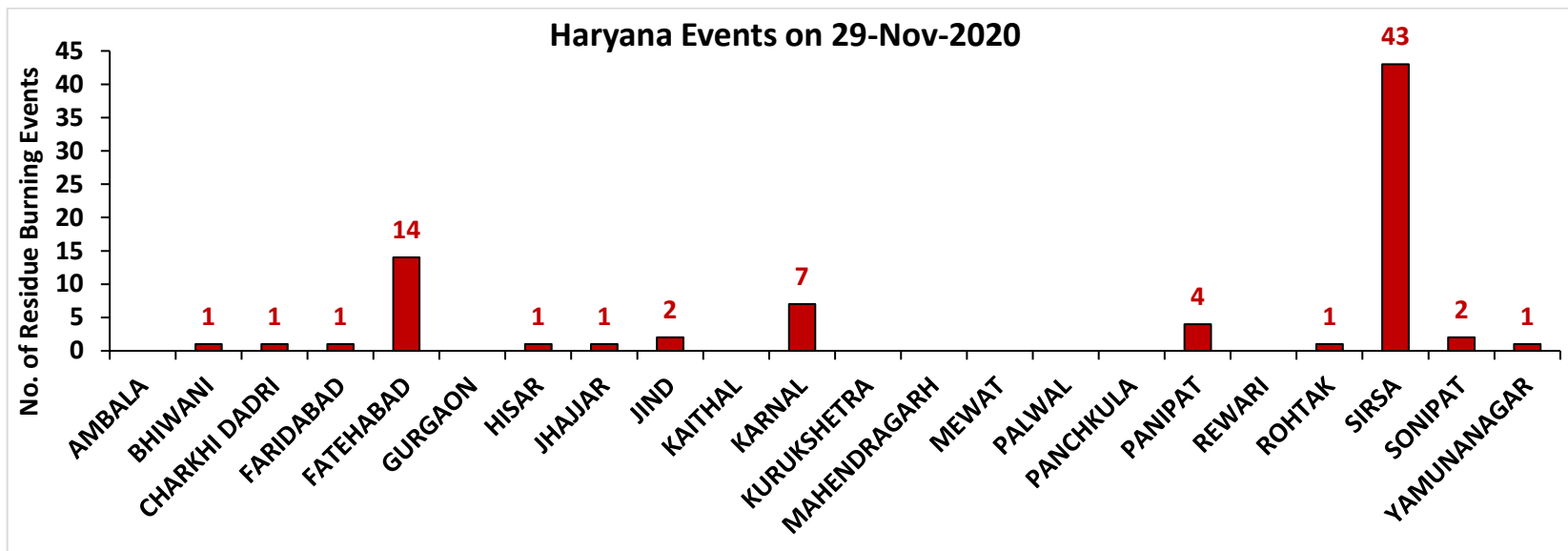
Fire Intensity (W/m²)

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



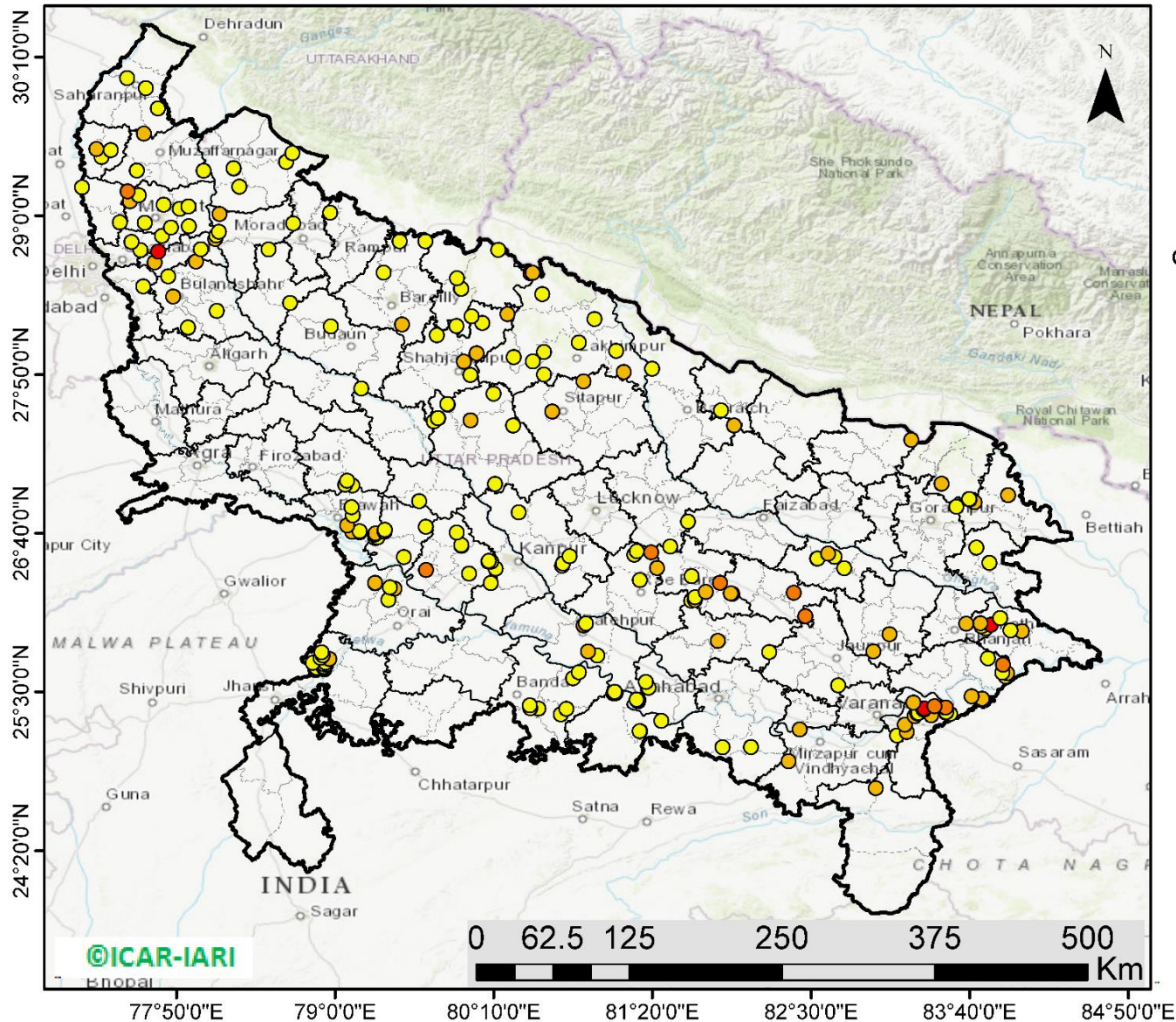
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Haryana (01-Oct to 29-Nov 2020)



(c) Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



244 burning events detected in Uttar Pradesh on 29th November 2020

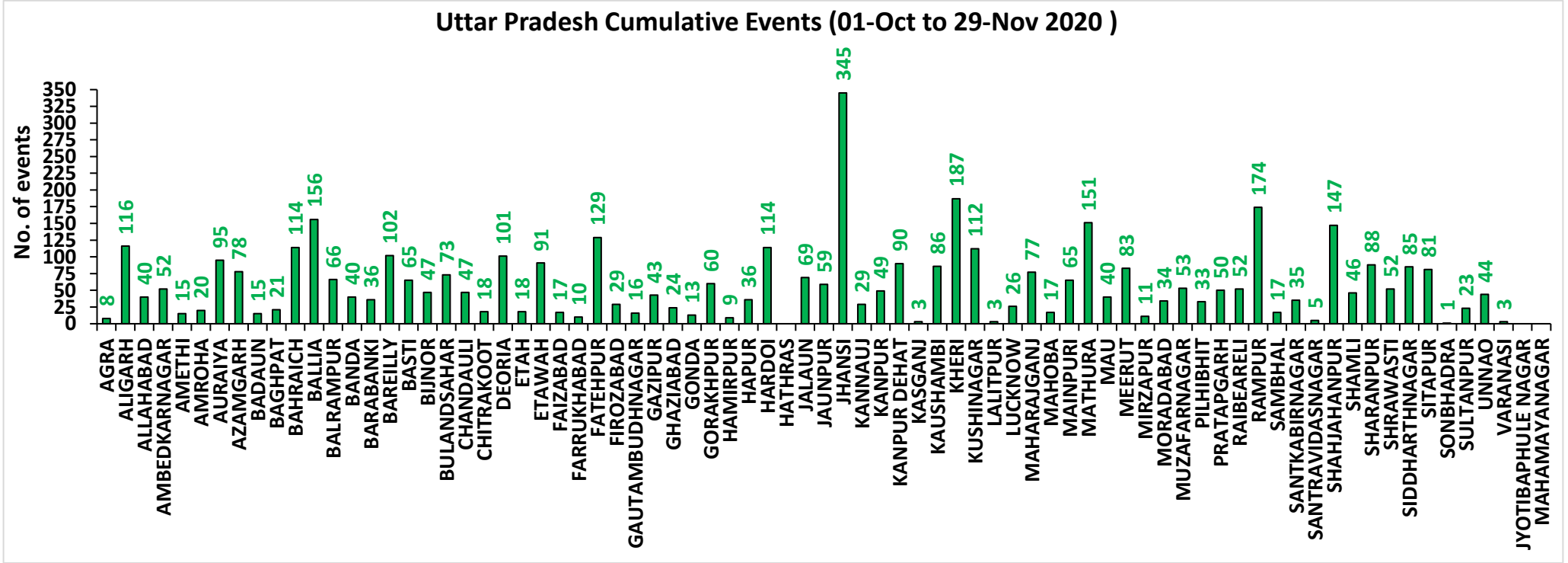
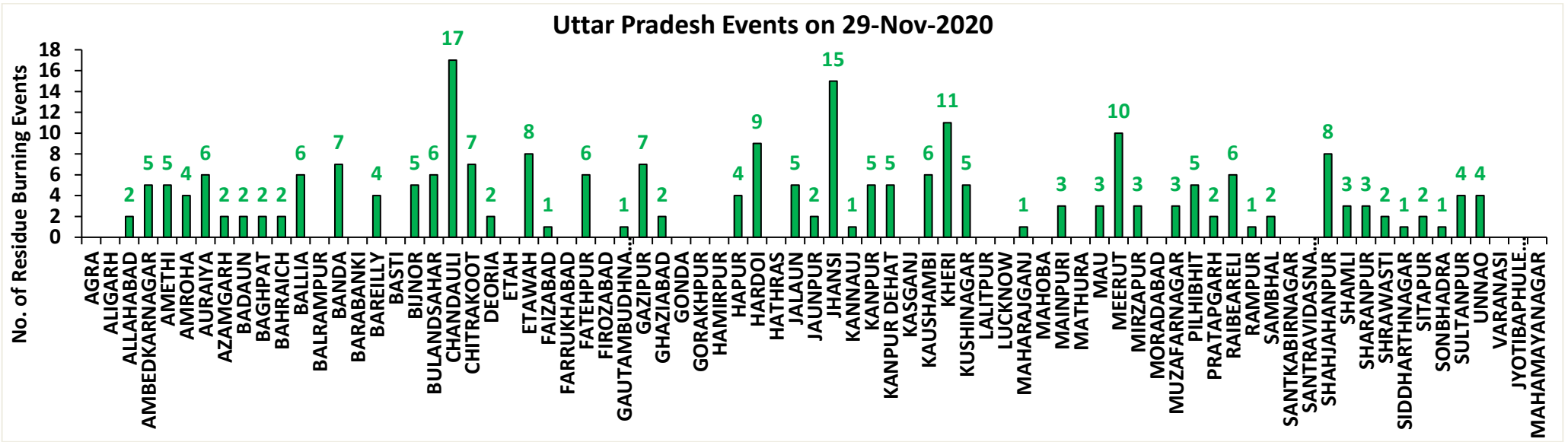
Fire Intensity (W/m²)

- 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 29-Nov 2020)



State-wise and date-wise number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-October to 29-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
16-Nov	9	23	1250	8	911	0	59	204	17	318	13	79	112	218	123	22	161	1566	243	1352
17-Nov	266	332	1132	217	638	15	85	289	12	299	38	265	103	249	130	319	682	1524	478	1067
18-Nov	693	740	1400	2147	568	67	70	356	139	312	58	113	111	180	217	818	923	1867	2466	1097
19-Nov	438	1221	752	2200	168	44	82	159	471	125	112	39	3	122	273	594	1342	914	2793	566
20-Nov	838	1007	385	1857	240	120	74	88	325	204	160	64	243	101	183	1118	1145	716	2283	627
21-Nov	507	151	480	2310	112	104	37	161	378	115	160	84	107	205	86	771	272	748	2893	313
22-Nov	41	21	287	719	99	18	19	122	154	118	127	116	72	281	148	186	156	481	1154	365
23-Nov	46	286	317	1033	54	62	14	180	259	97	89	100	106	163	151	197	400	603	1455	302
24-Nov	8	293	229	507	21	24	23	152	192	36	144	72	186	105	265	176	388	567	804	322
25-Nov	0	266	72	443	33	0	31	81	219	68	114	18	272	124	123	114	315	425	786	224
26-Nov	24	8	95	334	27	4	9	57	240	25	83	62	73	186	85	111	79	225	760	137
27-Nov	139	13	1	151	22	50	0	2	99	34	82	132	42	227	80	271	145	45	477	136
28-Nov	87	4	35	95	13	67	1	49	114	23	183	150	35	145	87	337	155	119	354	123
29-Nov	65	27	27	86	10	79	3	39	87	28	244	37	104	91	197	388	67	170	264	235
Total	79065	50705	59657	66968	102371	5654	6360	9189	13018	15672	4459	4196	6501	8668	9608	89178	61261	75347	88654	127651

District-wise and date-wise cumulative number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-Oct to 29-Nov)

(a) Punjab

Districts	01-Oct to 29-Nov				
	2016	2017	2018	2019	2020
AMRITSAR	2170	1362	1397	1410	2029
BARNALA	5701	3426	3279	2964	4791
BATHINDA	8846	5777	6346	5309	8003
FARIDKOT	4630	3472	3058	2317	4030
FATEHGARH SAHIB	2461	1642	866	827	1341
FAZILKA	0	0	0	2793	5113
FIROZPUR	13643	9938	9989	4636	7180
GURDASPUR	2219	1594	1171	1478	1970
HOSHIARPUR	905	497	199	311	423
JALANDHAR	4662	2126	1393	1515	1895
KAPURTHALA	3136	1626	750	1353	1659
LUDHIANA	9546	4753	3043	2273	4310
MANSA	5652	4501	4317	3571	5223
MOGA	6393	2776	2730	2150	4622
MUKTSAR	7037	5441	5786	3718	5821
PATHANKOT	0	0	0	6	12
PATIALA	6545	5034	4215	3853	5501
RUPNAGAR	719	328	87	119	201
SANGRUR	11862	8429	7782	6363	10056
SAS NAGAR	117	107	104	150	194
SBS NAGAR	1614	825	397	265	187
TARN TARAN	4513	3314	2748	3324	4504
Total	102371	66968	59657	50705	79065

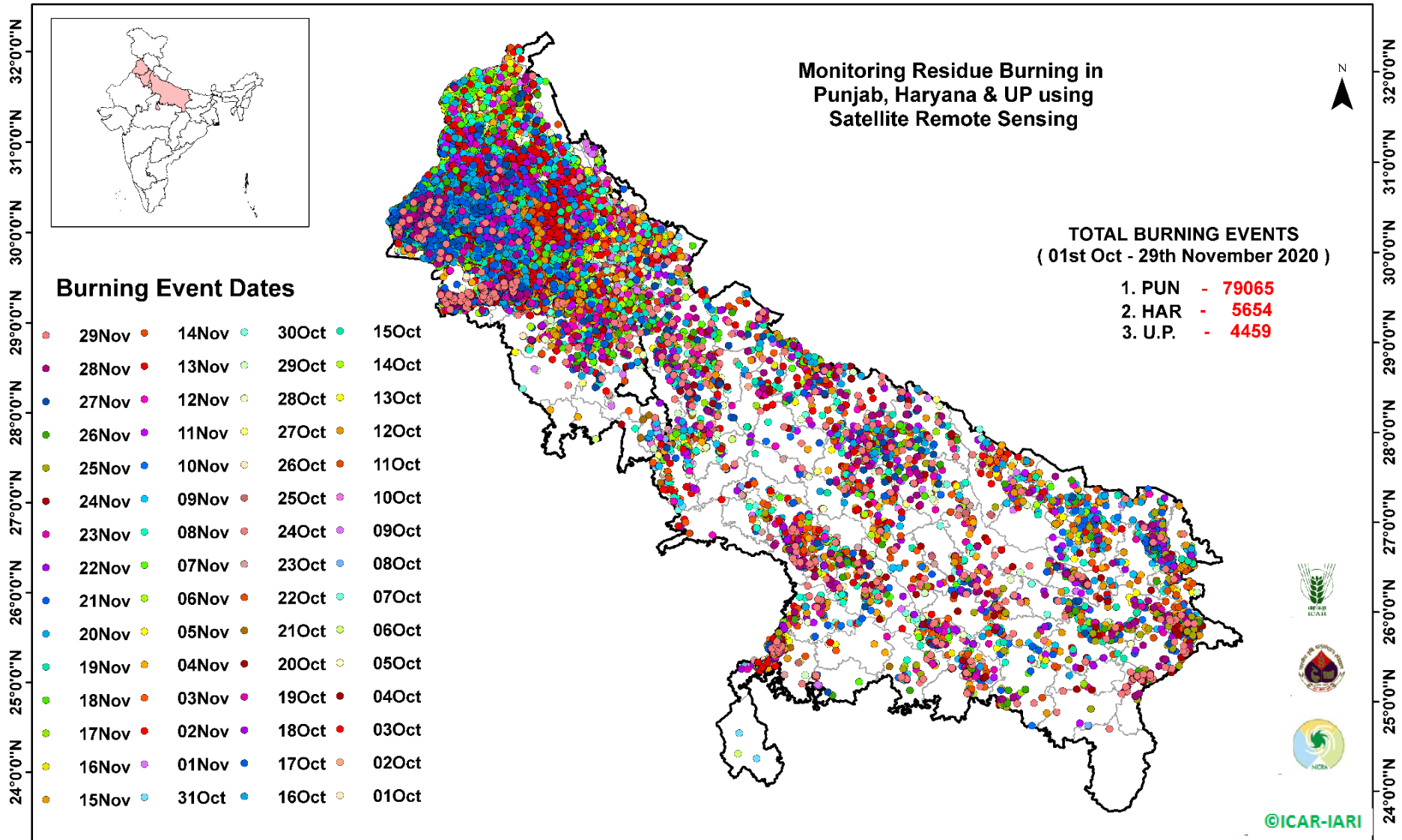
(b) Haryana

Districts	01-Oct to 29-Nov				
	2016	2017	2018	2019	2020
AMBALA	537	502	331	339	471
BHIWANI	93	47	22	11	18
CHARKHI DADRI	0	0	0	0	4
FARIDABAD	288	343	187	10	3
FATEHABAD	4831	3734	2549	1203	1247
GURGAON	0	0	0	4	4
HISAR	414	192	211	116	158
JHAJJAR	43	19	34	4	17
JIND	861	945	886	579	659
KAITHAL	1748	1512	1292	1258	868
KARNAL	1640	1513	856	1083	580
KURUKSHETRA	1079	1150	681	740	460
MAHENDRAGARH	0	0	0	2	1
MEWAT	0	0	0	3	2
PALWAL	0	0	0	188	58
PANCHKULA	0	0	3	21	15
PANIPAT	102	110	60	41	67
REWARI	0	0	0	3	3
ROHTAK	103	98	51	23	69
SIRSA	3580	2444	1781	449	590
SONIPAT	100	86	43	33	117
YAMUNANAGAR	253	323	202	250	243
Total	15672	13018	9189	6360	5654

(C)
Uttar Pradesh

Districts	01-Oct to 29-Nov																
	2016	2017	2018	2019	2020	GAUTAMBUDHNAGAR	33	47	13	20	16	MUZAFARNAGAR	186	192	72	38	53
AGRA	0	0	0	4	8	GAZIPUR	16	23	28	18	43	PILHIBHIT	964	746	437	368	33
ALIGARH	59	82	95	90	116	GHAZIABAD	95	67	47	17	24	PRATAPGARH	47	63	44	27	50
ALLAHABAD	8	20	21	23	40	GONDA	50	39	22	12	13	RAIBEARELI	119	152	76	37	52
AMBEDKARNAGAR	79	71	31	14	52	GORAKHPUR	67	115	142	20	60	RAMPUR	635	665	228	318	174
AMETHI	0	0	0	15	15	HAMIRPUR	0	0	1	41	9	SAMBHAL	0	0	0	10	17
AMROHA	0	0	0	10	20	HAPUR	0	0	0	17	36	SANTKABIRNAGAR	56	65	56	14	35
AURAIYA	289	254	74	59	95	HARDOI	259	211	116	92	114	SANTRAVIDASNAGAR	0	0	0	1	5
AZAMGARH	38	56	38	7	78	HATHRAS	0	0	0	1	0	SHAHJAHANPUR	1159	713	393	373	147
BADAUN	13	12	14	22	15	JALAUN	0	0	0	132	69	SHAMLI	0	0	0	26	46
BAGHPAT	0	0	0	14	21	JAUNPUR	26	44	26	17	59	SHARANPUR	136	162	82	68	88
BAHRAICH	82	42	60	49	114	JHANSI	0	0	2	263	345	SHRAWASTI	37	32	37	22	52
BALLIA	19	48	33	28	156	KANNAUJ	35	20	8	10	29	SIDDHARTHANAGAR	264	188	476	55	85
BALRAMPUR	38	28	45	9	66	KANPUR	20	14	13	11	49	SITAPUR	150	88	48	53	81
BANDA	2	23	12	25	40	KANPUR DEHAT	75	75	29	51	90	SONBHADRA	16	17	13	0	1
BARABANKI	222	168	175	60	36	KASGANJ	0	0	0	6	3	SULTANPUR	82	84	65	23	23
BAREILLY	270	239	122	117	102	KAUSHAMBI	36	55	53	24	86	UNNAO	68	60	41	39	44
BASTI	146	187	126	30	65	KHERI	518	359	240	201	187	VARANASI	2	0	0	0	3
BIJNOR	84	75	24	17	47	KUSHINAGAR	68	157	176	47	112	JYOTIBAPHULE NAGAR	12	22	13	0	0
BULANDSAHAR	38	39	27	28	73	LALITPUR	0	0	0	7	3	MAHAMAYANAGAR	4	3	8	0	0
CHANDAULI	21	27	3	1	47	LUCKNOW	64	30	26	25	26	Total	9608	8668	6501	4196	4459
CHITRAKOOT	0	0	0	7	18	MAHARAJGANJ	733	1029	1081	300	77						
DEORIA	62	86	80	9	101	MAHOBA	0	0	0	9	17						
ETAH	24	33	28	5	18	MAINPURI	97	96	60	48	65						
ETAWAH	189	148	72	57	91	MATHURA	1462	1083	1049	464	151						
FAIZABAD	20	16	10	7	17	MAU	15	24	22	12	40						
FARRUKHABAD	0	0	0	9	10	MEERUT	113	117	39	38	83						
FATEHPUR	88	73	92	66	129	MIRZAPUR	6	21	9	4	11						
FIROZABAD	23	18	11	17	29	MORADABAD	69	45	17	18	34						

Map of Cumulative Burning Events (01-Oct to 29-Nov 2020)



[\(http://geoportal.icar.gov.in:8080/geoexplorer/composer/\)](http://geoportal.icar.gov.in:8080/geoexplorer/composer/)

Details of residue burning events in Punjab on 29-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	BARNALA	BARNALA	S-NPP	30.52016	75.43946	13:24:00	D	7.00
2	BARNALA	BARNALA	S-NPP	30.52079	75.42210	13:24:00	D	3.50
3	BARNALA	BARNALA	S-NPP	30.57215	75.47581	13:24:00	D	2.10
4	BATHINDA	BATHINDA	AQUA	30.13500	74.63600	13:45:00	D	5.30
5	BATHINDA	BATHINDA	S-NPP	30.30167	75.05577	13:24:00	D	3.30
6	BATHINDA	BATHINDA	S-NPP	30.38476	75.13100	13:24:00	D	20.20
7	BATHINDA	RAMPURA PHUL	S-NPP	30.12388	75.31247	13:24:00	D	3.50
8	BATHINDA	RAMPURA PHUL	AQUA	30.26900	75.33100	13:45:00	D	10.30
9	BATHINDA	RAMPURA PHUL	S-NPP	30.29832	75.22298	13:24:00	D	4.50
10	FARIDKOT	JAITO	S-NPP	30.39452	74.87719	13:24:00	D	1.60
11	FAZILKA	ABOHAR	S-NPP	30.07087	74.16067	13:24:00	D	3.80
12	FAZILKA	ABOHAR	AQUA	30.17500	74.33700	13:45:00	D	6.50
13	FAZILKA	ABOHAR	AQUA	30.19300	74.27000	13:45:00	D	5.80
14	FAZILKA	ABOHAR	AQUA	30.19700	74.30100	13:45:00	D	7.20
15	FAZILKA	FAZILKA	S-NPP	30.23710	73.99240	13:24:00	D	13.60
16	FAZILKA	FAZILKA	S-NPP	30.25226	74.03659	13:24:00	D	1.90
17	FAZILKA	FAZILKA	S-NPP	30.25928	74.03494	13:24:00	D	8.20
18	FAZILKA	FAZILKA	S-NPP	30.26549	74.02872	13:24:00	D	10.90
19	FAZILKA	FAZILKA	AQUA	30.30300	74.01300	13:45:00	D	7.90
20	FAZILKA	FAZILKA	S-NPP	30.33545	74.30421	13:24:00	D	1.60
21	FAZILKA	FAZILKA	S-NPP	30.33893	74.30340	13:24:00	D	1.60
22	FAZILKA	FAZILKA	AQUA	30.35700	74.06600	13:45:00	D	18.70
23	FAZILKA	FAZILKA	S-NPP	30.38962	74.15722	13:24:00	D	3.90
24	FAZILKA	FAZILKA	S-NPP	30.47671	74.07222	13:24:00	D	2.20
25	FAZILKA	JALALABAD	AQUA	30.51100	74.37000	13:45:00	D	5.50
26	FAZILKA	JALALABAD	S-NPP	30.51471	74.37163	13:24:00	D	4.50
27	FAZILKA	JALALABAD	S-NPP	30.51817	74.37082	13:24:00	D	4.50
28	FAZILKA	JALALABAD	S-NPP	30.57898	74.19982	13:24:00	D	4.20
29	FAZILKA	JALALABAD	AQUA	30.59900	74.39900	13:45:00	D	14.30
30	FAZILKA	JALALABAD	AQUA	30.60000	74.40900	13:45:00	D	13.60

31	FIROZPUR	ZIRA	AQUA	30.88200	75.23800	13:45:00	D	9.40
32	FIROZPUR	ZIRA	S-NPP	30.97244	75.28674	13:24:00	D	3.10
33	FIROZPUR	ZIRA	S-NPP	31.04696	75.20583	13:24:00	D	2.20
34	GURDASPUR	GURDASPUR	S-NPP	31.94600	75.36100	13:24:00	D	2.50
35	HOSHIARPUR	MUKERIAN	S-NPP	32.03084	75.67129	13:24:00	D	5.20
36	KAPURTHALA	KAPURTHALA	S-NPP	31.46118	75.31918	13:24:00	D	4.30
37	LUDHIANA	SAMRALA	S-NPP	30.87457	76.24697	13:24:00	D	5.70
38	MANSA	SARDULGARH	S-NPP	29.55073	75.24329	13:24:00	D	15.90
39	MANSA	SARDULGARH	AQUA	29.56500	75.29100	13:45:00	D	10.00
40	MANSA	SARDULGARH	S-NPP	29.59364	75.24699	13:24:00	D	4.70
41	MANSA	SARDULGARH	S-NPP	29.60808	75.27003	13:24:00	D	11.50
42	MANSA	SARDULGARH	AQUA	29.68000	75.32800	13:45:00	D	10.50
43	MOGA	BAGHA PURANA	AQUA	30.67600	75.01000	13:45:00	D	3.10
44	MUKTSAR	MALAUT	S-NPP	29.97082	74.56358	13:24:00	D	22.40
45	MUKTSAR	MALAUT	S-NPP	29.97960	74.67546	13:24:00	D	2.10
46	MUKTSAR	MALAUT	S-NPP	30.03261	74.56779	13:24:00	D	4.50
47	MUKTSAR	MALAUT	AQUA	30.04400	74.57500	13:45:00	D	6.80
48	MUKTSAR	MALAUT	S-NPP	30.25143	74.36077	13:24:00	D	5.50
49	MUKTSAR	MALAUT	AQUA	30.29300	74.45600	13:45:00	D	12.90
50	MUKTSAR	MALAUT	S-NPP	30.35392	74.41105	13:24:00	D	2.10
51	MUKTSAR	MALAUT	AQUA	30.36300	74.36200	13:45:00	D	7.40
52	MUKTSAR	MALAUT	AQUA	30.36800	74.39300	13:45:00	D	28.60
53	MUKTSAR	MUKTSAR	AQUA	30.36200	74.41500	13:45:00	D	12.70
54	MUKTSAR	MUKTSAR	S-NPP	30.36237	74.41833	13:24:00	D	4.10
55	MUKTSAR	MUKTSAR	S-NPP	30.36336	74.41920	13:24:00	D	4.50
56	MUKTSAR	MUKTSAR	AQUA	30.38800	74.41000	13:45:00	D	5.50
57	MUKTSAR	MUKTSAR	S-NPP	30.47463	74.48078	13:24:00	D	5.60
58	MUKTSAR	MUKTSAR	S-NPP	30.47539	74.48518	13:24:00	D	5.60
59	MUKTSAR	MUKTSAR	S-NPP	30.51781	74.51313	13:24:00	D	2.60
60	MUKTSAR	MUKTSAR	AQUA	30.55100	74.38700	13:45:00	D	5.40
61	MUKTSAR	MUKTSAR	S-NPP	30.60457	74.53042	13:24:00	D	5.30
62	PATIALA	NABHA	S-NPP	30.42104	76.23280	13:24:00	D	3.10
63	RUPNAGAR	CHAMKOR SAHIB	S-NPP	30.92270	76.32014	13:24:00	D	5.30
64	SANGRUR	SANGRUR	S-NPP	30.19096	75.56921	13:24:00	D	2.90

65	SANGRUR	SANGRUR	AQUA	30.19100	75.56600	13:45:00	D	7.20
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Details of residue burning events in Haryana on 29-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	BHIWANI	BHIWANI	S-NPP	28.86521	76.20395	13:24:00	D	6.50
2	CHARKHI DADRI	DADRI	S-NPP	28.60895	76.24006	13:24:00	D	1.80
3	FARIDABAD	BALLABGARH	METOP-2	28.26871	77.34620	20:32:00	N	7.00
4	FATEHABAD	FATEHABAD	S-NPP	29.37228	75.57941	13:24:00	D	2.70
5	FATEHABAD	FATEHABAD	AQUA	29.62300	75.51400	13:45:00	D	9.70
6	FATEHABAD	FATEHABAD	S-NPP	29.62767	75.51290	13:24:00	D	5.70
7	FATEHABAD	FATEHABAD	AQUA	29.68100	75.40200	13:45:00	D	39.30
8	FATEHABAD	RATIA	S-NPP	29.66408	75.50067	13:24:00	D	1.50
9	FATEHABAD	RATIA	AQUA	29.67900	75.39200	13:45:00	D	36.10
10	FATEHABAD	RATIA	S-NPP	29.68453	75.37125	13:24:00	D	2.10
11	FATEHABAD	RATIA	AQUA	29.68800	75.39000	13:45:00	D	20.60
12	FATEHABAD	RATIA	AQUA	29.69000	75.40000	13:45:00	D	18.10
13	FATEHABAD	RATIA	S-NPP	29.69609	75.52988	02:06:00	N	1.10
14	FATEHABAD	RATIA	AQUA	29.72000	75.49000	13:45:00	D	3.90
15	FATEHABAD	RATIA	AQUA	29.72200	75.50000	13:45:00	D	6.90
16	FATEHABAD	RATIA	S-NPP	29.73001	75.39163	13:24:00	D	6.30
17	FATEHABAD	RATIA	S-NPP	29.74958	75.55122	13:24:00	D	10.50
18	HISAR	HANSI	AQUA	29.03200	76.23600	13:45:00	D	4.80
19	JHAJJAR	JHAJJAR	S-NPP	28.69479	76.66417	13:24:00	D	0.90
20	JIND	NARWANA	AQUA	29.50700	76.08300	13:45:00	D	7.00
21	JIND	NARWANA	S-NPP	29.52685	76.13879	13:24:00	D	3.80
22	KARNAL	KARNAL	AQUA	29.66000	76.82500	13:45:00	D	9.10
23	KARNAL	KARNAL	S-NPP	29.66482	76.82927	02:06:00	N	7.60
24	KARNAL	KARNAL	S-NPP	29.66545	76.82532	02:06:00	N	4.30
25	KARNAL	KARNAL	AQUA	29.66600	76.82900	13:45:00	D	6.10
26	KARNAL	KARNAL	S-NPP	29.66710	76.82809	13:24:00	D	8.10
27	KARNAL	KARNAL	S-NPP	29.66812	76.82996	02:06:00	N	3.20
28	KARNAL	KARNAL	S-NPP	29.66875	76.82601	02:06:00	N	7.90

29	PANIPAT	ISRANA	S-NPP	29.30356	76.86879	13:24:00	D	2.20
30	PANIPAT	ISRANA	S-NPP	29.31802	76.80867	13:24:00	D	2.50
31	PANIPAT	PANIPAT	S-NPP	29.36952	76.90058	13:24:00	D	2.10
32	PANIPAT	PANIPAT	S-NPP	29.37654	76.92363	13:24:00	D	2.60
33	ROHTAK	MAHAM	S-NPP	29.03597	76.35561	13:24:00	D	7.40
34	SIRSA	ELLENABAD	AQUA	29.41000	74.71900	13:45:00	D	4.60
35	SIRSA	ELLENABAD	AQUA	29.47700	74.66800	13:45:00	D	5.20
36	SIRSA	ELLENABAD	AQUA	29.50000	74.76800	13:45:00	D	7.50
37	SIRSA	ELLENABAD	AQUA	29.52600	74.62700	13:45:00	D	4.40
38	SIRSA	RANIA	S-NPP	29.50120	74.85040	13:24:00	D	2.70
39	SIRSA	RANIA	S-NPP	29.50464	74.84962	13:24:00	D	2.70
40	SIRSA	RANIA	S-NPP	29.50805	74.74487	13:24:00	D	22.60
41	SIRSA	RANIA	AQUA	29.53000	74.90900	13:45:00	D	7.40
42	SIRSA	RANIA	S-NPP	29.53370	74.64336	13:24:00	D	4.30
43	SIRSA	RANIA	S-NPP	29.53596	74.76126	13:24:00	D	5.20
44	SIRSA	RANIA	AQUA	29.55500	74.70500	13:45:00	D	8.60
45	SIRSA	RANIA	AQUA	29.55700	74.71500	13:45:00	D	11.40
46	SIRSA	RANIA	S-NPP	29.55801	74.71626	13:24:00	D	2.10
47	SIRSA	RANIA	NOAA-19	29.56528	74.85827	17:39:00	N	9.00
48	SIRSA	RANIA	S-NPP	29.56575	74.59575	13:24:00	D	9.10
49	SIRSA	RANIA	AQUA	29.56700	74.59300	13:45:00	D	10.60
50	SIRSA	RANIA	AQUA	29.57200	74.69600	13:45:00	D	9.10
51	SIRSA	SIRSA	AQUA	29.43100	74.93400	13:45:00	D	11.10
52	SIRSA	SIRSA	S-NPP	29.43189	74.93678	13:24:00	D	1.30
53	SIRSA	SIRSA	S-NPP	29.44684	74.91999	13:24:00	D	8.60
54	SIRSA	SIRSA	AQUA	29.48800	74.94500	13:45:00	D	6.10
55	SIRSA	SIRSA	S-NPP	29.50846	75.22115	13:24:00	D	14.30
56	SIRSA	SIRSA	AQUA	29.51600	75.21200	13:45:00	D	10.50
57	SIRSA	SIRSA	AQUA	29.53300	75.12900	13:45:00	D	8.80
58	SIRSA	SIRSA	S-NPP	29.53538	75.13242	13:24:00	D	3.50
59	SIRSA	SIRSA	AQUA	29.54800	75.16800	13:45:00	D	21.10
60	SIRSA	SIRSA	AQUA	29.54900	75.17800	13:45:00	D	10.10
61	SIRSA	SIRSA	AQUA	29.55500	74.95700	13:45:00	D	6.90

62	SIRSA	SIRSA	S-NPP	29.55945	75.14914	13:24:00	D	2.20
63	SIRSA	SIRSA	AQUA	29.56500	74.96500	13:45:00	D	7.90
64	SIRSA	SIRSA	S-NPP	29.56535	75.12138	13:24:00	D	4.70
65	SIRSA	SIRSA	S-NPP	29.56732	75.11211	13:24:00	D	2.30
66	SIRSA	SIRSA	S-NPP	29.56751	75.13414	13:24:00	D	3.00
67	SIRSA	SIRSA	S-NPP	29.57092	75.13338	13:24:00	D	6.50
68	SIRSA	SIRSA	S-NPP	29.57216	74.97346	13:24:00	D	7.10
69	SIRSA	SIRSA	S-NPP	29.57558	74.97270	13:24:00	D	7.10
70	SIRSA	SIRSA	S-NPP	29.60328	74.93594	13:24:00	D	3.40
71	SIRSA	SIRSA	AQUA	29.62700	75.14800	13:45:00	D	4.30
72	SIRSA	SIRSA	AQUA	29.66000	75.12100	13:45:00	D	7.10
73	SIRSA	SIRSA	S-NPP	29.66570	75.13499	13:24:00	D	4.30
74	SIRSA	SIRSA	S-NPP	29.67428	75.10223	13:24:00	D	2.50
75	SIRSA	SIRSA	S-NPP	29.67769	75.10148	13:24:00	D	2.50
76	SIRSA	SIRSA	S-NPP	29.83488	75.09887	13:24:00	D	2.90
77	SONIPAT	GANAUR	S-NPP	29.16442	76.99807	13:24:00	D	2.90
78	SONIPAT	SONIPAT	S-NPP	29.05578	76.88943	13:24:00	D	6.10
79	YAMUNANAGAR	JAGADHRI	S-NPP	30.07507	77.32274	13:24:00	D	3.50

Details of residue burning events in Uttar Pradesh on 29-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	ALLAHABAD	MEZA	S-NPP	25.09327	81.84996	13:18:00	D	1.40
2	ALLAHABAD	MEZA	S-NPP	25.09488	82.05820	13:18:00	D	4.00
3	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.48079	82.54505	13:24:00	D	3.50
4	AMBEDKARNAGAR	AKBARPUR	S-NPP	26.48122	82.54749	13:24:00	D	2.60
5	AMBEDKARNAGAR	JALALPUR	S-NPP	26.40865	82.74338	13:24:00	D	2.60
6	AMBEDKARNAGAR	TANDA	S-NPP	26.49295	82.67321	13:24:00	D	3.30
7	AMBEDKARNAGAR	TANDA	NOAA-19	26.51700	82.62618	17:39:00	N	6.00
8	AMETHI	GAURIGANJ	NOAA-19	26.17564	81.64589	17:39:00	N	7.00
9	AMETHI	GAURIGANJ	S-NPP	26.19583	81.64754	13:24:00	D	2.60
10	AMETHI	GAURIGANJ	S-NPP	26.23528	81.72559	13:24:00	D	6.20
11	AMETHI	GAURIGANJ	AQUA	26.30200	81.83000	13:45:00	D	11.20
12	AMETHI	GAURIGANJ	S-NPP	26.35049	81.62166	02:06:00	N	0.60
13	AMROHA	AMROHA	S-NPP	28.94484	78.69231	13:24:00	D	3.10
14	AMROHA	DHANAURA	S-NPP	28.85532	78.12600	13:24:00	D	2.00
15	AMROHA	DHANAURA	S-NPP	28.88198	78.14525	13:24:00	D	3.20
16	AMROHA	DHANAURA	S-NPP	29.01391	78.14956	13:24:00	D	5.10
17	AURAIYA	AURAIYA	S-NPP	26.49207	79.50584	13:24:00	D	2.90
18	AURAIYA	AURAIYA	S-NPP	26.63015	79.29620	13:24:00	D	1.70
19	AURAIYA	AURAIYA	S-NPP	26.63575	79.31130	13:24:00	D	4.50
20	AURAIYA	BIDHUNA	S-NPP	26.67764	79.36435	13:24:00	D	2.10
21	AURAIYA	BIDHUNA	S-NPP	26.69158	79.36592	13:24:00	D	2.10
22	AURAIYA	BIDHUNA	S-NPP	26.71404	79.66671	13:24:00	D	1.70
23	AZAMGARH	LALGANJ	S-NPP	25.79840	82.95930	13:24:00	D	5.50
24	AZAMGARH	MEHNAGAR	NOAA-19	25.92411	83.07750	17:39:00	N	6.00
25	BADAUN	BILSI	S-NPP	28.18690	78.96855	13:24:00	D	2.50
26	BADAUN	DATAGANJ	S-NPP	27.72982	79.19272	13:24:00	D	2.40
27	BAGHPAT	BAGHPAT	S-NPP	28.95146	77.41703	13:24:00	D	4.00
28	BAGHPAT	BARAUT	S-NPP	29.21020	77.13919	13:24:00	D	1.50
29	BAHRAICH	BAHRAICH	S-NPP	27.45930	81.93306	13:24:00	D	7.40

30	BAHRAICH	NANPARA	S-NPP	27.87590	81.33180	13:24:00	D	4.40
31	BALLIA	BALLIA	NOAA-19	25.63665	83.94132	17:39:00	N	7.00
32	BALLIA	BELTHARA ROAD	S-NPP	26.00559	83.74648	13:24:00	D	6.90
33	BALLIA	BELTHARA ROAD	S-NPP	26.04258	83.89148	13:24:00	D	4.50
34	BALLIA	RASRA	S-NPP	25.95223	83.96773	13:24:00	D	2.10
35	BALLIA	RASRA	S-NPP	25.99380	83.82278	13:24:00	D	21.30
36	BALLIA	SIKANDARPUR	TERRA	25.94600	84.05100	10:35:00	D	6.80
37	BANDA	ATARRA	S-NPP	25.33473	80.65990	13:24:00	D	3.60
38	BANDA	ATARRA	S-NPP	25.37650	80.70064	02:06:00	N	0.50
39	BANDA	ATARRA	S-NPP	25.37804	80.49450	13:24:00	D	2.90
40	BANDA	ATARRA	S-NPP	25.38022	80.43541	02:06:00	N	0.60
41	BANDA	ATARRA	S-NPP	25.40085	80.43262	13:24:00	D	2.90
42	BANDA	BABERU	S-NPP	25.60031	80.74931	13:24:00	D	2.20
43	BANDA	BABERU	S-NPP	25.64499	80.79307	13:24:00	D	2.20
44	BAREILLY	BAHERI	S-NPP	28.81231	79.66390	02:06:00	N	1.20
45	BAREILLY	BAHERI	S-NPP	28.81358	79.47405	02:06:00	N	0.60
46	BAREILLY	FARIDPUR	METOP-2	28.20134	79.49119	20:32:00	N	8.00
47	BAREILLY	MIRGANJ	S-NPP	28.58286	79.35780	13:24:00	D	2.80
48	BIJNOR	AFZALGARH	S-NPP	29.39690	78.63930	13:24:00	D	2.00
49	BIJNOR	AFZALGARH	S-NPP	29.46041	78.68601	13:24:00	D	4.60
50	BIJNOR	BIJNOR	S-NPP	29.34771	78.25367	13:24:00	D	1.60
51	BIJNOR	BIJNOR	S-NPP	29.35036	78.25354	13:24:00	D	1.80
52	BIJNOR	CHANDPUR	S-NPP	29.21515	78.29501	13:24:00	D	2.30
53	BULANSAHAR	BULANSHAHAR	NOAA-19	28.40645	77.80884	17:39:00	N	6.00
54	BULANSAHAR	BULANSHAHAR	S-NPP	28.55519	77.77174	13:24:00	D	2.30
55	BULANSAHAR	KHURJA	S-NPP	28.17675	77.91737	02:06:00	N	0.70
56	BULANSAHAR	KHURJA	S-NPP	28.18012	77.91810	02:06:00	N	0.70
57	BULANSAHAR	SHIKARPUR	S-NPP	28.30127	78.12939	13:24:00	D	1.20
58	BULANSAHAR	SIYANA	S-NPP	28.66389	77.97667	13:24:00	D	6.60
59	CHANDAULI	CHANDAULI	NOAA-19	25.20546	83.20367	17:39:00	N	7.00
60	CHANDAULI	CHANDAULI	NOAA-19	25.25936	83.18912	17:39:00	N	7.00
61	CHANDAULI	CHANDAULI	S-NPP	25.32921	83.38326	13:18:00	D	8.30
62	CHANDAULI	CHANDAULI	TERRA	25.33800	83.52300	10:35:00	D	5.00

63	CHANDAULI	CHANDAULI	NOAA-19	25.34919	83.49000	17:39:00	N	8.00
64	CHANDAULI	CHANDAULI	TERRA	25.35200	83.49400	10:35:00	D	4.80
65	CHANDAULI	SHAKALDIHA	NOAA-19	25.32224	83.26191	17:39:00	N	9.00
66	CHANDAULI	SHAKALDIHA	AQUA	25.34200	83.28100	13:45:00	D	19.40
67	CHANDAULI	SHAKALDIHA	S-NPP	25.34548	83.28839	13:18:00	D	2.90
68	CHANDAULI	SHAKALDIHA	S-NPP	25.37005	83.32833	13:18:00	D	21.30
69	CHANDAULI	SHAKALDIHA	AQUA	25.37300	83.32500	13:45:00	D	31.40
70	CHANDAULI	SHAKALDIHA	S-NPP	25.37781	83.32722	13:18:00	D	8.20
71	CHANDAULI	SHAKALDIHA	AQUA	25.37800	83.33300	13:45:00	D	23.70
72	CHANDAULI	SHAKALDIHA	NOAA-19	25.38512	83.48514	17:39:00	N	8.00
73	CHANDAULI	SHAKALDIHA	S-NPP	25.38580	83.49107	13:18:00	D	12.50
74	CHANDAULI	SHAKALDIHA	NOAA-19	25.39410	83.40750	17:39:00	N	11.50
75	CHANDAULI	SHAKALDIHA	NOAA-19	25.42105	83.25220	17:39:00	N	7.00
76	CHITRAKOOT	KARWI	AQUA	25.49000	81.04600	13:45:00	D	9.50
77	CHITRAKOOT	KARWI	AQUA	25.49000	81.05600	13:45:00	D	15.70
78	CHITRAKOOT	KARWI	AQUA	25.49100	81.06200	13:45:00	D	9.30
79	CHITRAKOOT	KARWI	S-NPP	25.49683	81.05600	13:24:00	D	7.80
80	CHITRAKOOT	KARWI	S-NPP	25.50031	81.05544	13:24:00	D	2.00
81	CHITRAKOOT	MAU	S-NPP	25.21089	81.24329	02:06:00	N	0.60
82	CHITRAKOOT	MAU	S-NPP	25.21168	81.23927	02:06:00	N	0.60
83	DEORIA	DEORIA	S-NPP	26.44946	83.81223	13:24:00	D	3.10
84	DEORIA	DEORIA	S-NPP	26.56180	83.71642	13:24:00	D	2.30
85	ETAWAH	BHARTHNA	S-NPP	26.65684	79.29145	13:24:00	D	7.90
86	ETAWAH	BHARTHNA	S-NPP	26.66465	79.29811	13:24:00	D	5.20
87	ETAWAH	BHARTHNA	AQUA	26.67300	79.17900	13:45:00	D	7.90
88	ETAWAH	BHARTHNA	AQUA	26.67800	79.12500	13:45:00	D	8.00
89	ETAWAH	BHARTHNA	S-NPP	26.68061	79.17963	13:24:00	D	4.00
90	ETAWAH	BHARTHNA	NOAA-19	26.72361	79.08840	17:39:00	N	6.00
91	ETAWAH	ETAWAH	S-NPP	26.79845	79.13037	13:24:00	D	4.50
92	ETAWAH	ETAWAH	S-NPP	26.85838	79.11963	13:24:00	D	2.50
93	FAIZABAD	RUDAULI	S-NPP	26.75247	81.59571	13:24:00	D	3.80
94	FATEHPUR	FATEHPUR	S-NPP	25.76727	80.92815	13:24:00	D	2.40
95	FATEHPUR	FATEHPUR	NOAA-19	25.79835	80.85971	17:39:00	N	6.00

96	FATEHPUR	FATEHPUR	AQUA	25.98900	80.82700	13:45:00	D	10.70
97	FATEHPUR	FATEHPUR	S-NPP	26.00349	80.84409	13:24:00	D	4.50
98	FATEHPUR	KHAGA	AQUA	25.43900	81.22100	13:45:00	D	16.80
99	FATEHPUR	KHAGA	S-NPP	25.44343	81.21721	13:24:00	D	2.80
100	GAUTAMBUDHNAGAR	DADRI	S-NPP	28.48050	77.58908	13:24:00	D	2.20
101	GAZIPUR	MUHAMMADBAD	S-NPP	25.61510	83.93007	13:24:00	D	2.70
102	GAZIPUR	MUHAMMADBAD	S-NPP	25.64108	83.90678	13:24:00	D	1.30
103	GAZIPUR	MUHAMMADBAD	NOAA-19	25.69953	83.91220	17:39:00	N	14.00
104	GAZIPUR	MUHAMMADBAD	S-NPP	25.74765	83.80135	13:24:00	D	2.40
105	GAZIPUR	ZAMANIA	NOAA-19	25.44800	83.74235	17:39:00	N	7.00
106	GAZIPUR	ZAMANIA	S-NPP	25.45027	83.75913	13:18:00	D	6.50
107	GAZIPUR	ZAMANIA	S-NPP	25.46698	83.68050	13:18:00	D	8.70
108	GHAZIABAD	GHAZIABAD	S-NPP	28.74788	77.56920	13:24:00	D	4.20
109	GHAZIABAD	MODINAGAR	S-NPP	28.80871	77.50166	13:24:00	D	1.50
110	HAPUR	GARHMUKTESAR	S-NPP	28.75413	78.01190	13:24:00	D	2.40
111	HAPUR	GARHMUKTESAR	S-NPP	28.83041	78.11859	13:24:00	D	10.00
112	HAPUR	HAPUR	AQUA	28.65800	77.67300	13:45:00	D	8.30
113	HAPUR	HAPUR	S-NPP	28.73722	77.70033	13:24:00	D	22.70
114	HARDOI	BILGRAM	S-NPP	27.02884	80.17607	13:24:00	D	3.70
115	HARDOI	BILGRAM	S-NPP	27.02918	80.17547	13:24:00	D	4.50
116	HARDOI	HARDOI	S-NPP	27.45819	80.30800	02:06:00	N	1.10
117	HARDOI	HARDOI	NOAA-19	27.49616	79.99589	17:39:00	N	7.00
118	HARDOI	SHAHABAD	S-NPP	27.69197	80.16440	02:06:00	N	1.70
119	HARDOI	SIWAIJPUR	S-NPP	27.51200	79.75800	02:06:00	N	0.60
120	HARDOI	SIWAIJPUR	S-NPP	27.51304	79.75627	02:06:00	N	0.40
121	HARDOI	SIWAIJPUR	S-NPP	27.61183	79.82907	02:06:00	N	0.70
122	HARDOI	SIWAIJPUR	S-NPP	27.61635	79.82513	02:06:00	N	0.50
123	JALAUN	JALAUN	S-NPP	26.17740	79.39138	13:24:00	D	2.30
124	JALAUN	JALAUN	S-NPP	26.25928	79.43712	13:24:00	D	7.20
125	JALAUN	JALAUN	S-NPP	26.26810	79.40345	13:24:00	D	3.60
126	JALAUN	MADHOGARH	S-NPP	26.29903	79.29467	13:24:00	D	6.20
127	JALAUN	MADHOGARH	S-NPP	26.30237	79.29408	13:24:00	D	6.20
128	JAUNPUR	MACHHALI SAHAR	S-NPP	25.79376	82.19257	13:24:00	D	1.80

129	JAUNPUR	MARIAHU	S-NPP	25.54883	82.69980	13:24:00	D	2.30
130	JHANSI	MOTH	AQUA	25.66000	78.85700	13:45:00	D	8.70
131	JHANSI	MOTH	S-NPP	25.66494	78.92146	02:06:00	N	0.90
132	JHANSI	MOTH	S-NPP	25.66852	78.92226	02:06:00	N	1.50
133	JHANSI	MOTH	AQUA	25.67000	78.85600	13:45:00	D	20.80
134	JHANSI	MOTH	S-NPP	25.67771	78.86272	13:24:00	D	4.60
135	JHANSI	MOTH	AQUA	25.67800	78.91700	13:45:00	D	13.90
136	JHANSI	MOTH	S-NPP	25.68623	78.92013	13:24:00	D	3.10
137	JHANSI	MOTH	NOAA-19	25.69953	78.93310	17:39:00	N	8.00
138	JHANSI	MOTH	S-NPP	25.70552	78.91273	13:24:00	D	2.50
139	JHANSI	MOTH	S-NPP	25.71457	78.83648	13:24:00	D	3.60
140	JHANSI	MOTH	S-NPP	25.71498	78.93069	13:24:00	D	2.80
141	JHANSI	MOTH	S-NPP	25.74271	78.95718	13:24:00	D	5.50
142	JHANSI	MOTH	S-NPP	25.75015	78.89288	13:24:00	D	2.60
143	JHANSI	MOTH	S-NPP	25.76917	78.90910	13:24:00	D	4.20
144	JHANSI	MOTH	S-NPP	25.79177	78.90109	13:24:00	D	1.60
145	KANNAUJ	TIRWA	S-NPP	26.90254	79.61858	13:24:00	D	2.80
146	KANPUR	GHATAMPUR	S-NPP	26.30067	80.14412	13:24:00	D	2.10
147	KANPUR	KANPUR NAGAR	S-NPP	26.40689	80.18150	13:24:00	D	1.90
148	KANPUR	KANPUR NAGAR	S-NPP	26.45794	80.14780	13:24:00	D	4.20
149	KANPUR	KANPUR NAGAR	AQUA	26.45900	80.12700	13:45:00	D	9.50
150	KANPUR	KANPUR NAGAR	S-NPP	26.46247	80.13035	13:24:00	D	1.60
151	KANPUR DEHAT	AKBARPUR	S-NPP	26.36926	79.98449	13:24:00	D	3.00
152	KANPUR DEHAT	RASULABAD	S-NPP	26.57395	79.92927	13:24:00	D	2.80
153	KANPUR DEHAT	RASULABAD	S-NPP	26.58071	79.92811	13:24:00	D	3.10
154	KANPUR DEHAT	RASULABAD	S-NPP	26.67102	79.89403	02:06:00	N	0.40
155	KANPUR DEHAT	SIKANDRA	AQUA	26.39600	79.66900	13:45:00	D	10.50
156	KAUSHAMBI	MANJHANPUR	S-NPP	25.28799	81.39930	13:24:00	D	3.50
157	KAUSHAMBI	MANJHANPUR	AQUA	25.43100	81.22800	13:45:00	D	23.60
158	KAUSHAMBI	MANJHANPUR	S-NPP	25.44035	81.22562	13:24:00	D	4.50
159	KAUSHAMBI	MANJHANPUR	S-NPP	25.44093	81.22993	13:24:00	D	4.50
160	KAUSHAMBI	SIRATHU	S-NPP	25.53023	81.30466	13:24:00	D	4.40
161	KAUSHAMBI	SIRATHU	S-NPP	25.57418	81.28586	13:24:00	D	4.80

162	KHERI	DHAURAHRA	S-NPP	27.85296	81.12332	13:24:00	D	6.80
163	KHERI	DHAURAHRA	S-NPP	28.00773	81.06769	13:24:00	D	2.70
164	KHERI	GOLA	S-NPP	27.96199	80.31319	13:24:00	D	3.70
165	KHERI	LAKHIMPUR	S-NPP	27.99890	80.53687	13:24:00	D	4.20
166	KHERI	LAKHIMPUR	S-NPP	28.06845	80.79152	13:24:00	D	3.50
167	KHERI	MOHMADI	S-NPP	27.83393	80.53670	13:24:00	D	2.90
168	KHERI	MOHMADI	S-NPP	27.92970	80.45423	13:24:00	D	2.60
169	KHERI	NIGHASAN	S-NPP	28.24113	80.90807	13:24:00	D	3.10
170	KHERI	PALIA KALAN	S-NPP	28.42440	80.52415	13:24:00	D	4.90
171	KHERI	PALIA KALAN	AQUA	28.57800	80.43700	13:45:00	D	22.00
172	KHERI	PALIA KALAN	AQUA	28.58000	80.45300	13:45:00	D	9.90
173	KUSHINAGAR	HATA	S-NPP	26.86207	83.56870	13:24:00	D	3.90
174	KUSHINAGAR	HATA	NOAA-19	26.89429	83.70353	17:39:00	N	10.00
175	KUSHINAGAR	HATA	S-NPP	26.91398	83.66471	13:24:00	D	6.00
176	KUSHINAGAR	HATA	S-NPP	26.91802	83.66414	13:24:00	D	2.60
177	KUSHINAGAR	PADRAUNA	S-NPP	26.94667	83.94936	13:24:00	D	6.10
178	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.03117	83.45924	13:24:00	D	7.50
179	MAINPURI	KARHAL	S-NPP	27.01757	79.12731	13:24:00	D	1.30
180	MAINPURI	KARHAL	S-NPP	27.02353	79.07390	13:24:00	D	2.30
181	MAINPURI	KARHAL	S-NPP	27.05301	79.08871	13:24:00	D	3.20
182	MAU	MAU	S-NPP	25.96772	83.78310	13:24:00	D	3.80
183	MAU	MAU	S-NPP	25.98196	83.75367	13:24:00	D	3.30
184	MAU	MAU	S-NPP	26.00165	83.64119	13:24:00	D	5.70
185	MEERUT	MAWANA	S-NPP	28.92344	77.92371	13:24:00	D	1.50
186	MEERUT	MAWANA	S-NPP	29.05230	77.85845	13:24:00	D	3.00
187	MEERUT	MAWANA	S-NPP	29.06833	77.92018	13:24:00	D	1.40
188	MEERUT	MEERUT	S-NPP	28.85315	77.72713	13:24:00	D	2.20
189	MEERUT	MEERUT	S-NPP	28.91391	77.79212	13:24:00	D	1.30
190	MEERUT	MEERUT	S-NPP	28.94870	77.59946	13:24:00	D	3.80
191	MEERUT	SARDHANA	S-NPP	29.08179	77.73958	13:24:00	D	1.90
192	MEERUT	SARDHANA	AQUA	29.10700	77.49100	13:45:00	D	8.40
193	MEERUT	SARDHANA	S-NPP	29.15192	77.55589	13:24:00	D	3.10
194	MEERUT	SARDHANA	S-NPP	29.18016	77.47339	13:24:00	D	13.00

195	MIRZAPUR	CHUNAR	S-NPP	25.18008	83.13287	13:18:00	D	4.90
196	MIRZAPUR	LALGANJ	NOAA-19	24.98986	82.33500	17:39:00	N	6.00
197	MIRZAPUR	MIRZAPUR	NOAA-19	25.22342	82.41750	17:39:00	N	6.50
198	MUZAFARNAGAR	BUDHANA	S-NPP	29.33291	77.54092	13:24:00	D	2.30
199	MUZAFARNAGAR	JANSATH	S-NPP	29.33165	78.03265	13:24:00	D	3.20
200	MUZAFARNAGAR	MUZAFFARNAGAR	S-NPP	29.60458	77.59418	13:24:00	D	8.20
201	PILHIBHIT	BISALPUR	S-NPP	28.19091	79.89148	02:06:00	N	2.80
202	PILHIBHIT	BISALPUR	S-NPP	28.46330	79.92519	02:06:00	N	1.90
203	PILHIBHIT	BISALPUR	S-NPP	28.46352	79.92729	02:06:00	N	2.10
204	PILHIBHIT	PILHIBHIT	S-NPP	28.54059	79.89617	02:06:00	N	0.70
205	PILHIBHIT	PURANPUR	S-NPP	28.75051	80.19890	13:24:00	D	2.00
206	PRATAPGARH	LALGANJ	S-NPP	25.87583	81.81401	13:24:00	D	7.00
207	PRATAPGARH	LALGANJ	S-NPP	26.17020	81.61902	13:24:00	D	3.60
208	RAIBEARELI	MAHARAJGANG	S-NPP	26.41107	81.36692	13:24:00	D	8.00
209	RAIBEARELI	MAHARAJGANG	S-NPP	26.50974	81.19968	02:06:00	N	0.40
210	RAIBEARELI	MAHARAJGANG	NOAA-19	26.52598	81.32559	17:39:00	N	12.33
211	RAIBEARELI	MAHARAJGANG	S-NPP	26.53454	81.21838	13:24:00	D	2.40
212	RAIBEARELI	RAEBARELI	S-NPP	26.32220	81.24049	13:24:00	D	3.70
213	RAIBEARELI	TILOI	S-NPP	26.56976	81.46452	13:24:00	D	3.10
214	RAMPUR	TANDA	S-NPP	29.02313	78.96440	13:24:00	D	1.70
215	SAMBHAL	CHANDAUSI	S-NPP	28.35993	78.66793	13:24:00	D	1.70
216	SAMBHAL	SAMBHAL	S-NPP	28.75266	78.51093	13:24:00	D	3.60
217	SHAHJAHANPUR	JALALABAD	S-NPP	27.48844	79.72572	02:06:00	N	0.60
218	SHAHJAHANPUR	PUWANYA	NOAA-19	27.99024	80.03957	17:39:00	N	9.00
219	SHAHJAHANPUR	PUWANYA	S-NPP	28.21246	80.08204	02:06:00	N	2.00
220	SHAHJAHANPUR	PUWANYA	S-NPP	28.26106	80.00368	13:24:00	D	4.20
221	SHAHJAHANPUR	PUWANYA	NOAA-19	28.27770	80.26766	17:39:00	N	6.00
222	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.82941	79.99461	02:06:00	N	1.00
223	SHAHJAHANPUR	SHAHJAHANPUR	METOP-2	27.92735	79.94736	20:32:00	N	10.00
224	SHAHJAHANPUR	TILHAR	S-NPP	28.12191	79.74846	13:24:00	D	2.80
225	SHAMLI	SHAMLI	S-NPP	29.43216	77.28272	13:24:00	D	2.00
226	SHAMLI	SHAMLI	S-NPP	29.48322	77.34978	13:24:00	D	1.90
227	SHAMLI	SHAMLI	NOAA-19	29.49042	77.24429	17:39:00	N	6.00

228	SHARANPUR	DEOBAND	S-NPP	29.78963	77.69670	13:24:00	D	2.20
229	SHARANPUR	SHARANPUR	S-NPP	29.93845	77.60723	13:24:00	D	3.00
230	SHARANPUR	SHARANPUR	S-NPP	30.01237	77.47010	13:24:00	D	1.70
231	SHRAWASTI	IKAUNA	S-NPP	27.56800	81.83636	13:24:00	D	2.70
232	SHRAWASTI	IKAUNA	S-NPP	27.56994	81.83846	13:24:00	D	3.10
233	SIDDHARTHANAGAR	NAUGARH	NOAA-19	27.35243	83.23764	17:39:00	N	8.00
234	SITAPUR	LAHARPUR	S-NPP	27.78211	80.82645	13:24:00	D	5.30
235	SITAPUR	SITAPUR	S-NPP	27.56181	80.59642	13:24:00	D	9.90
236	SONBHADRA	REBUTSHGANJ	NOAA-19	24.79223	82.97559	17:39:00	N	8.00
237	SULTANPUR	AMETHI	TERRA	26.22200	81.92100	10:35:00	D	10.80
238	SULTANPUR	AMETHI	TERRA	26.22400	81.90900	10:35:00	D	8.50
239	SULTANPUR	KADIRPUR	S-NPP	26.05644	82.45852	13:24:00	D	12.70
240	SULTANPUR	KADIRPUR	AQUA	26.22900	82.37300	13:45:00	D	14.10
241	UNNAO	PURWA	S-NPP	26.49805	80.72373	13:24:00	D	2.50
242	UNNAO	SAFIPUR	S-NPP	26.81989	80.34930	13:24:00	D	3.40
243	UNNAO	UNNAO	S-NPP	26.42870	80.66868	13:24:00	D	2.50
244	UNNAO	UNNAO	S-NPP	26.44369	80.67484	13:24:00	D	2.80

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)
