



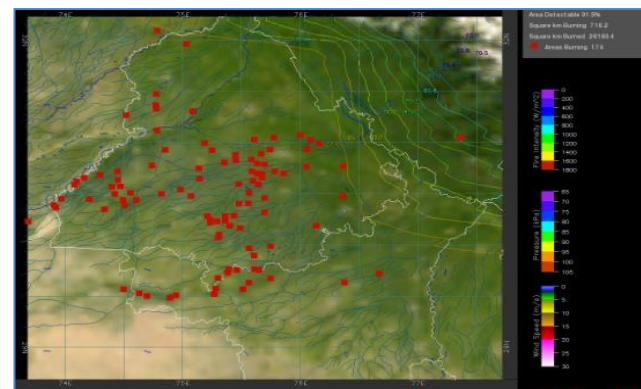
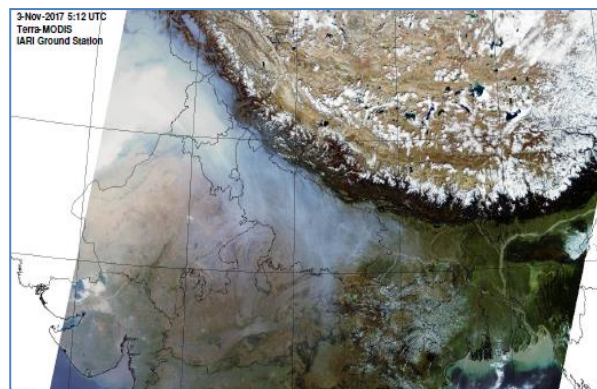
**Bulletin
No. 57**

**Events Date:
26-Nov-2019**

**Issued on:
27-Nov-2019**



MONITORING PADDY RESIDUE BURNING IN NORTH INDIA USING SATELLITE REMOTE SENSING DURING 2019



Prepared by:

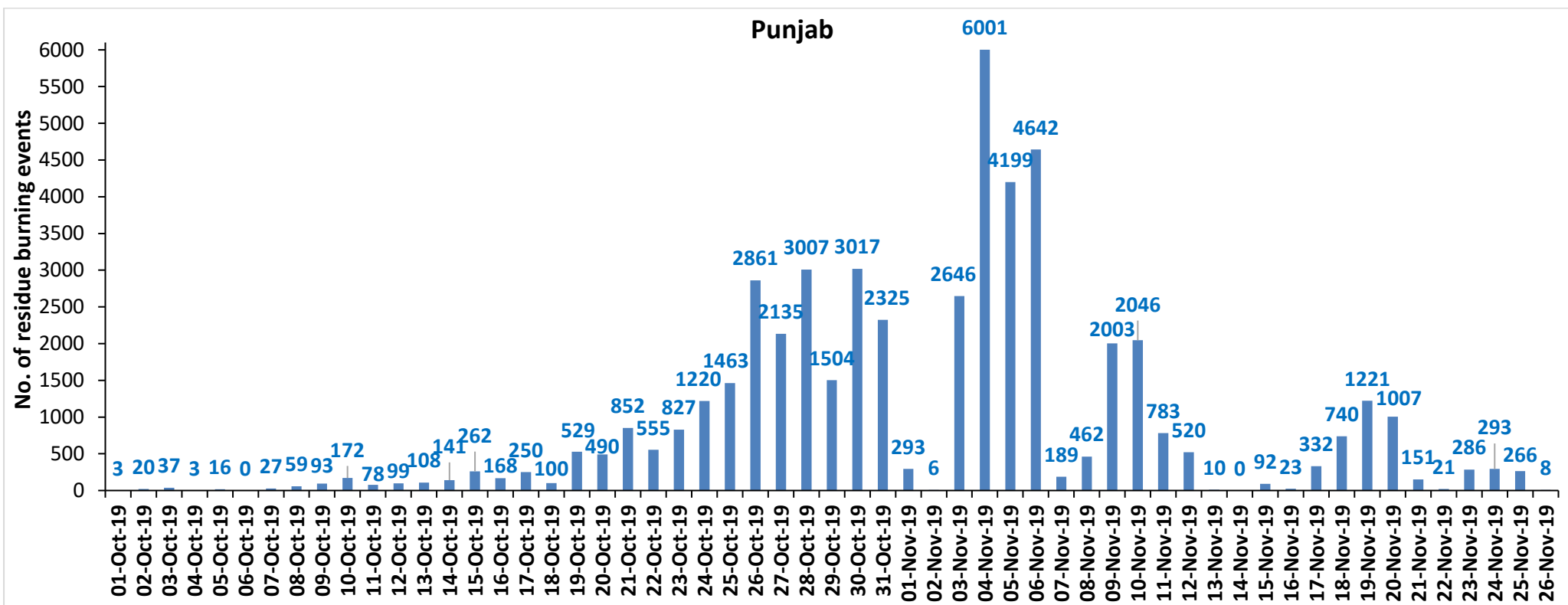
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

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

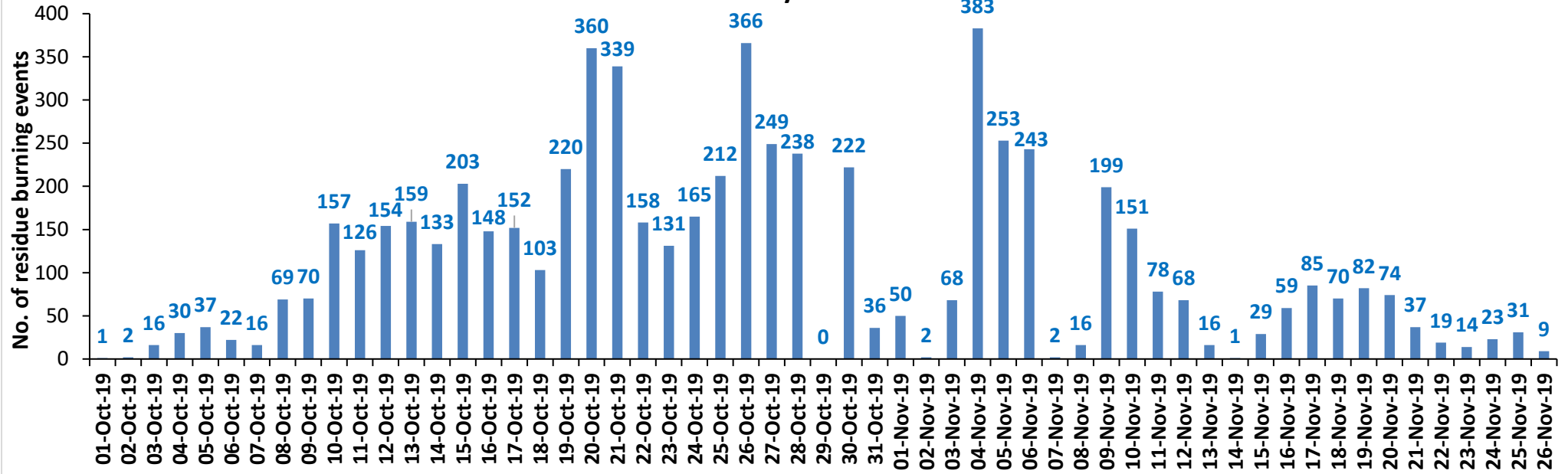
Highlights for 26-November-2019

- Satellites detected **79** residue burning events in the three study States on **26-Nov-2019**.
- The burning events detected on **26-Nov-2019** are **08, 09** and **62** in Punjab, Haryana and UP, respectively.
- The number of events has decreased from **315** on **25-Nov-2019** to **79** on **26-Nov-2019** in the three states.
- The state of Punjab and Haryana were partially covered with clouds which prevented fire event detection by satellites.
- Total **60894** burning events were detected in the three States between **01-Oct-2019** and **26-Nov-2019**, which are distributed as **50661, 6356** and **3877** in Punjab, Haryana and UP, respectively.
- Overall, the total burning events recorded in the three states are **18.8%** less than in 2018 till date. UP recorded **38.7%** reduction, Haryana recorded **30.1%** reduction, and Punjab recorded **15.0%** reduction, respectively, in the current season than in 2018.

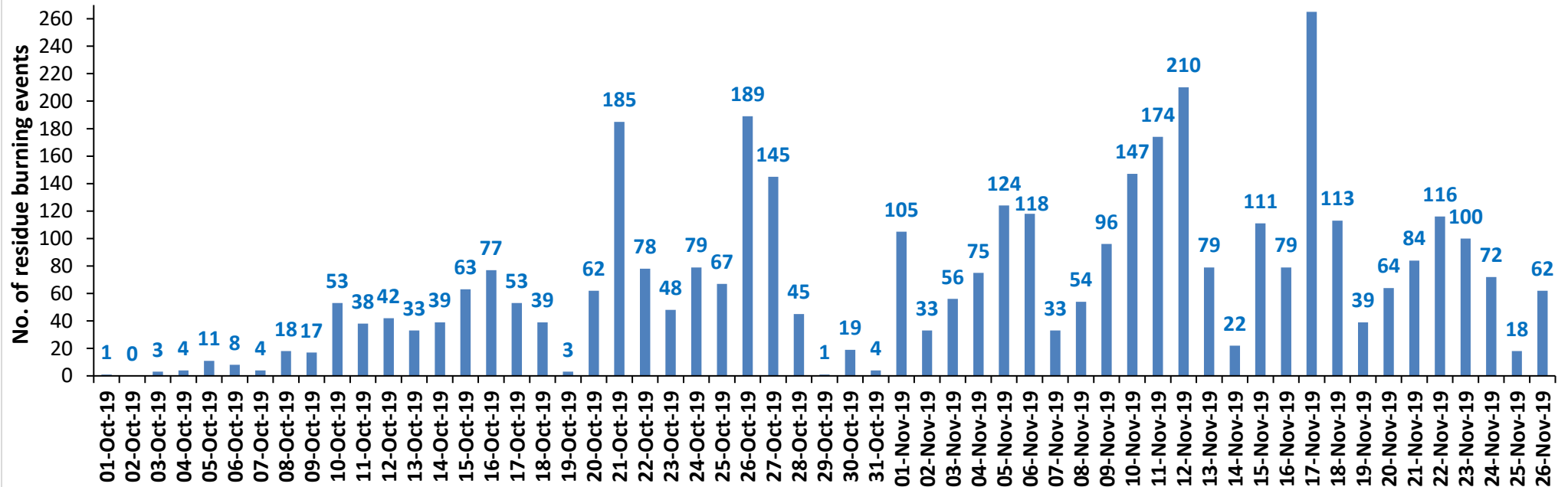
Temporal distribution of residue burning events for the three study States in 2019



Haryana

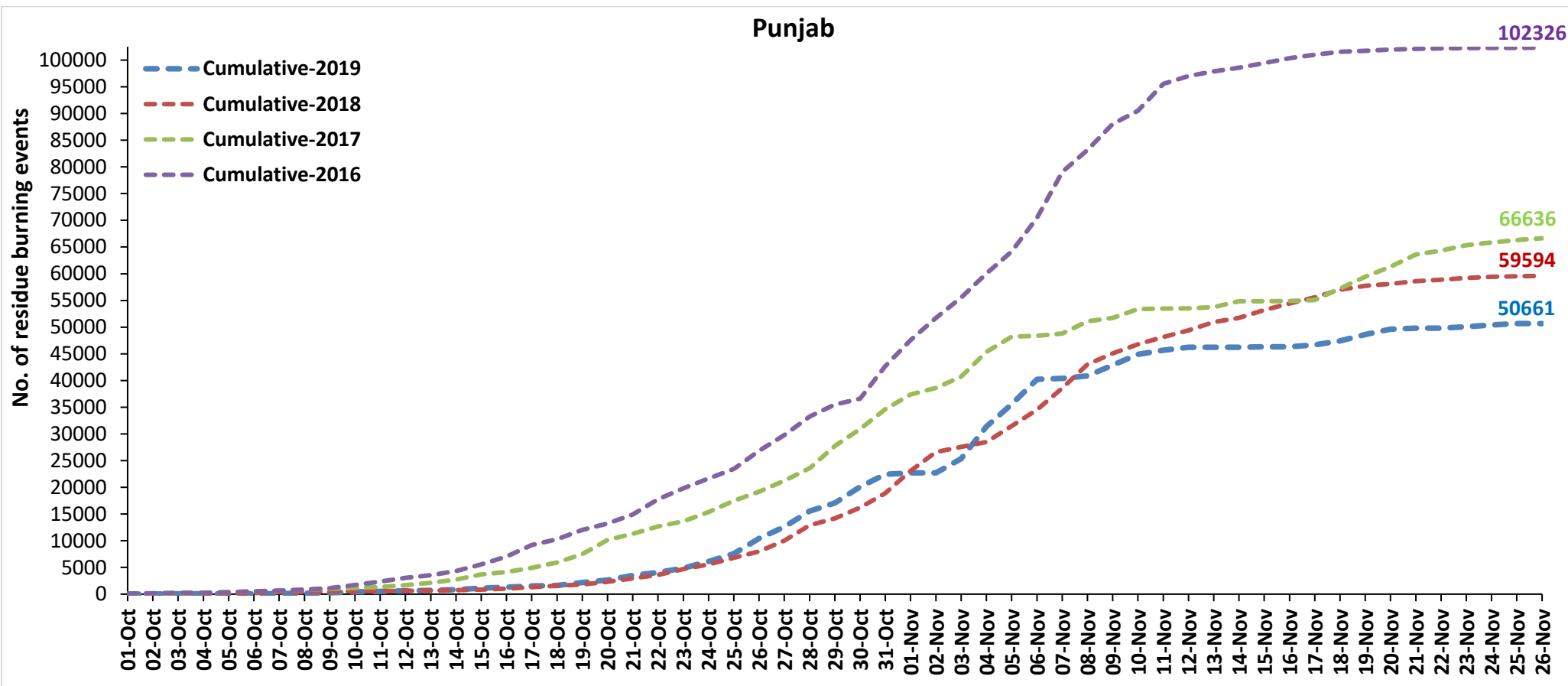


UP

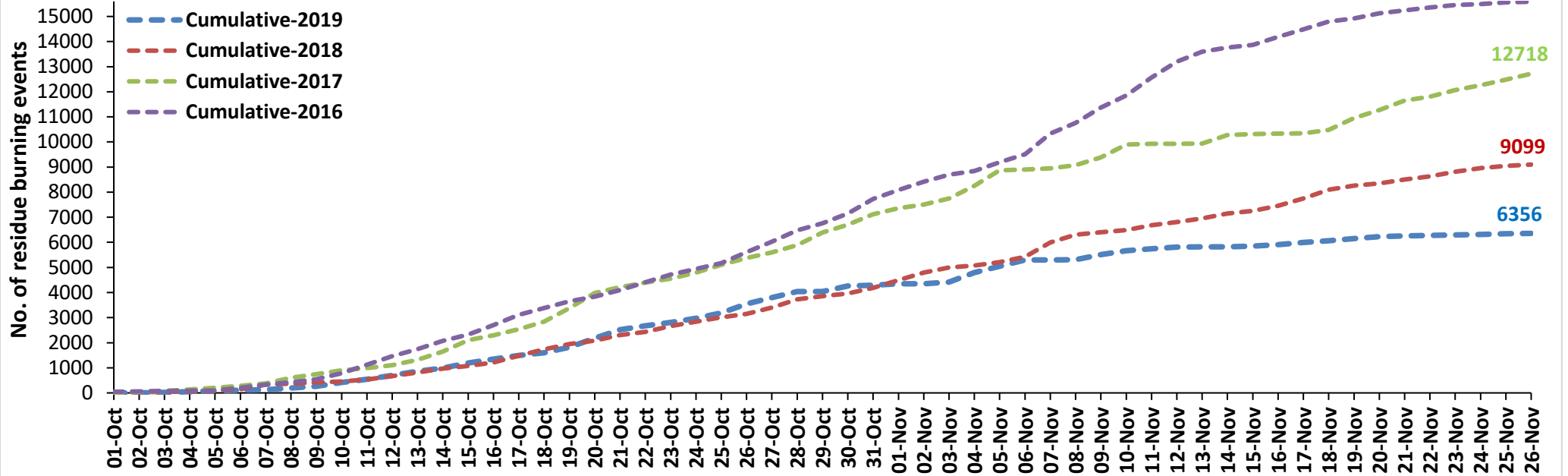


Comparison of residue burning events in current year (2019) with previous years (2018, 2017 & 2016) for the three study States
(01-Oct to 26-Nov)

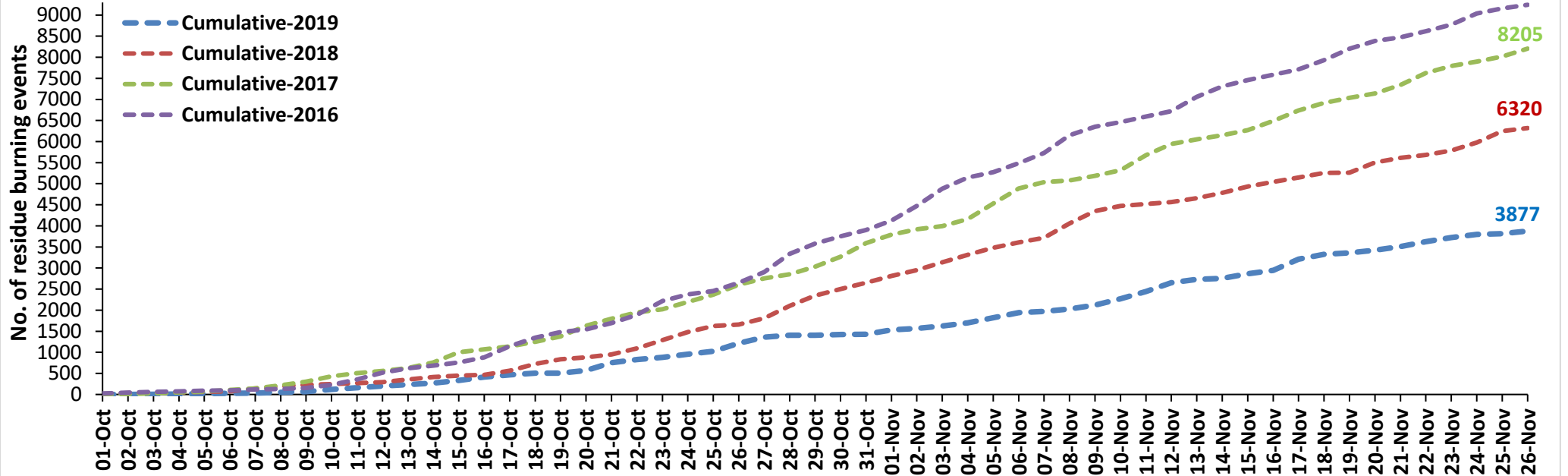
Punjab



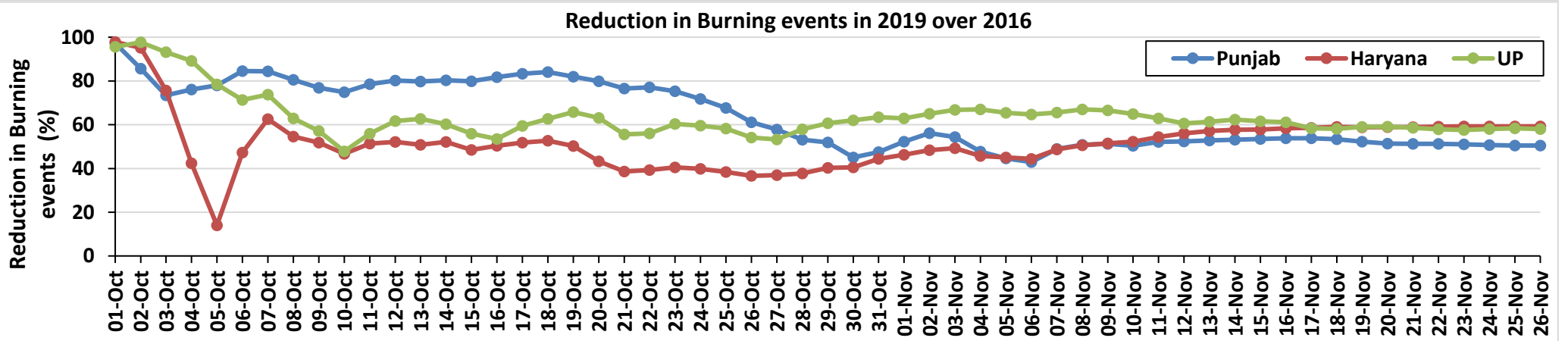
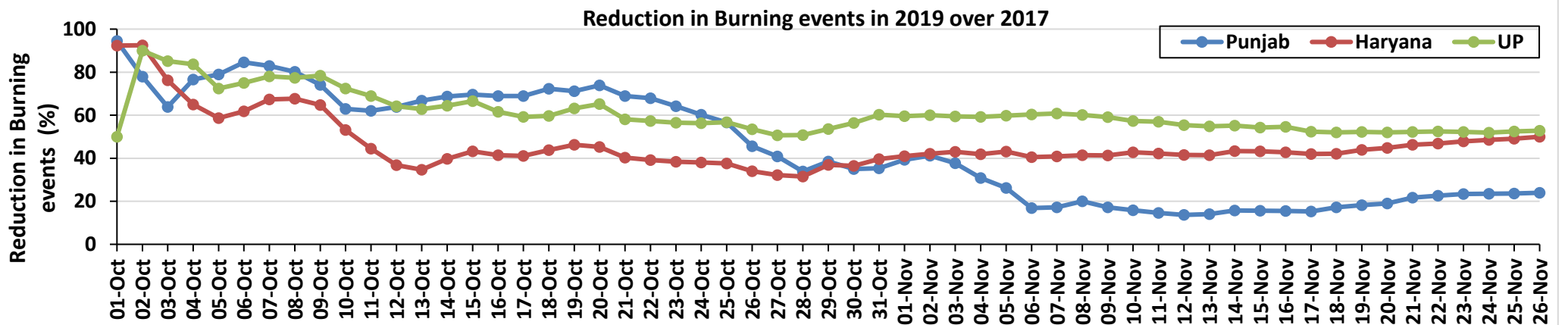
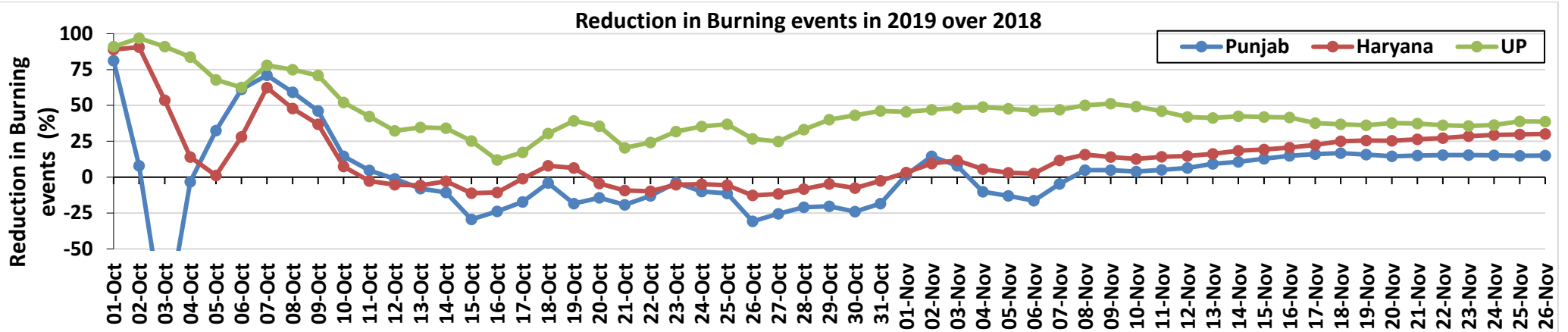
Haryana



UP

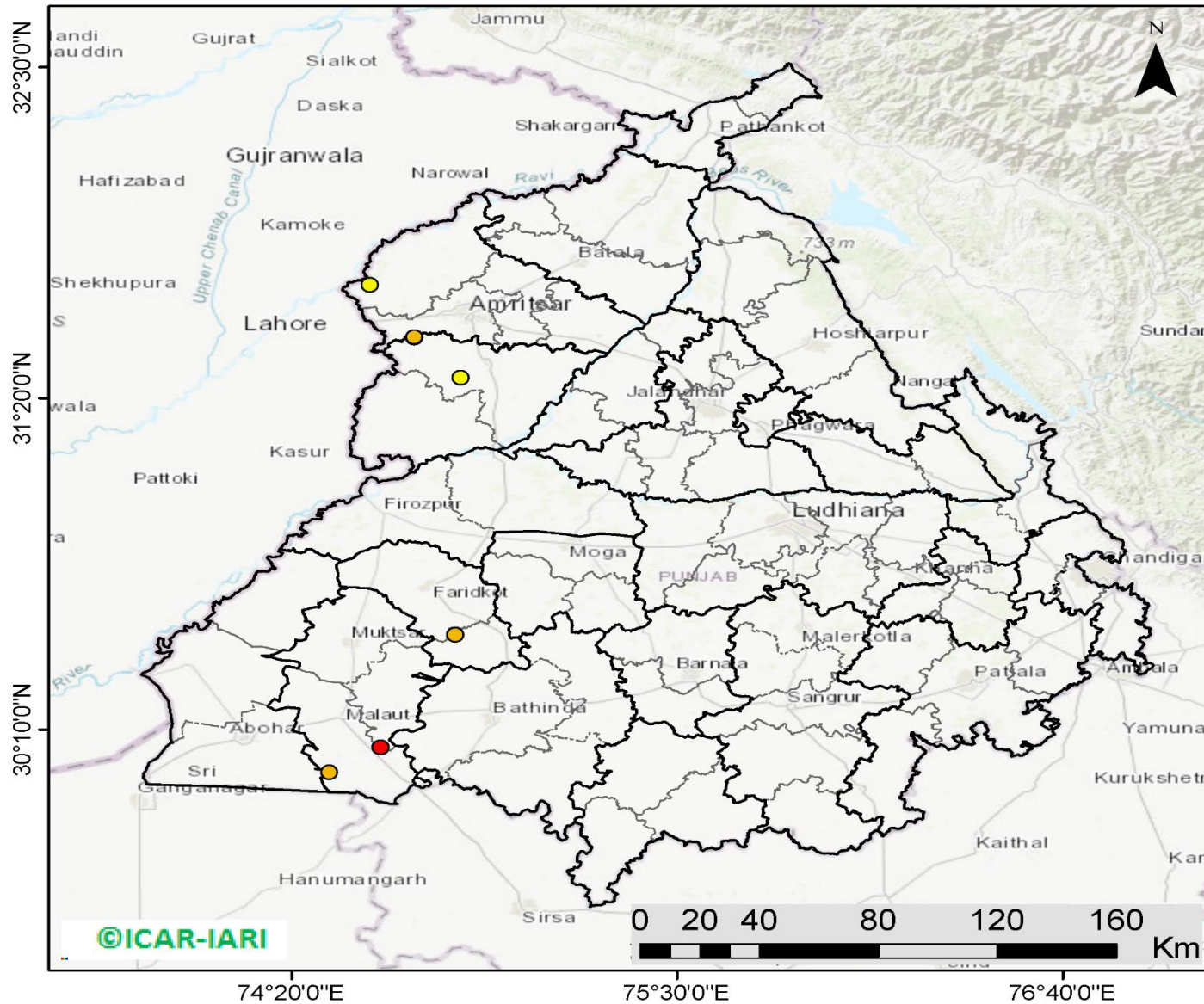


Percent Reduction in Burning events in 2019 over 2018, 2017 and 2016 (Daily Cumulative)



(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



08 burning events detected in Punjab on 26th November 2019

Fire Intensity (W/m²)

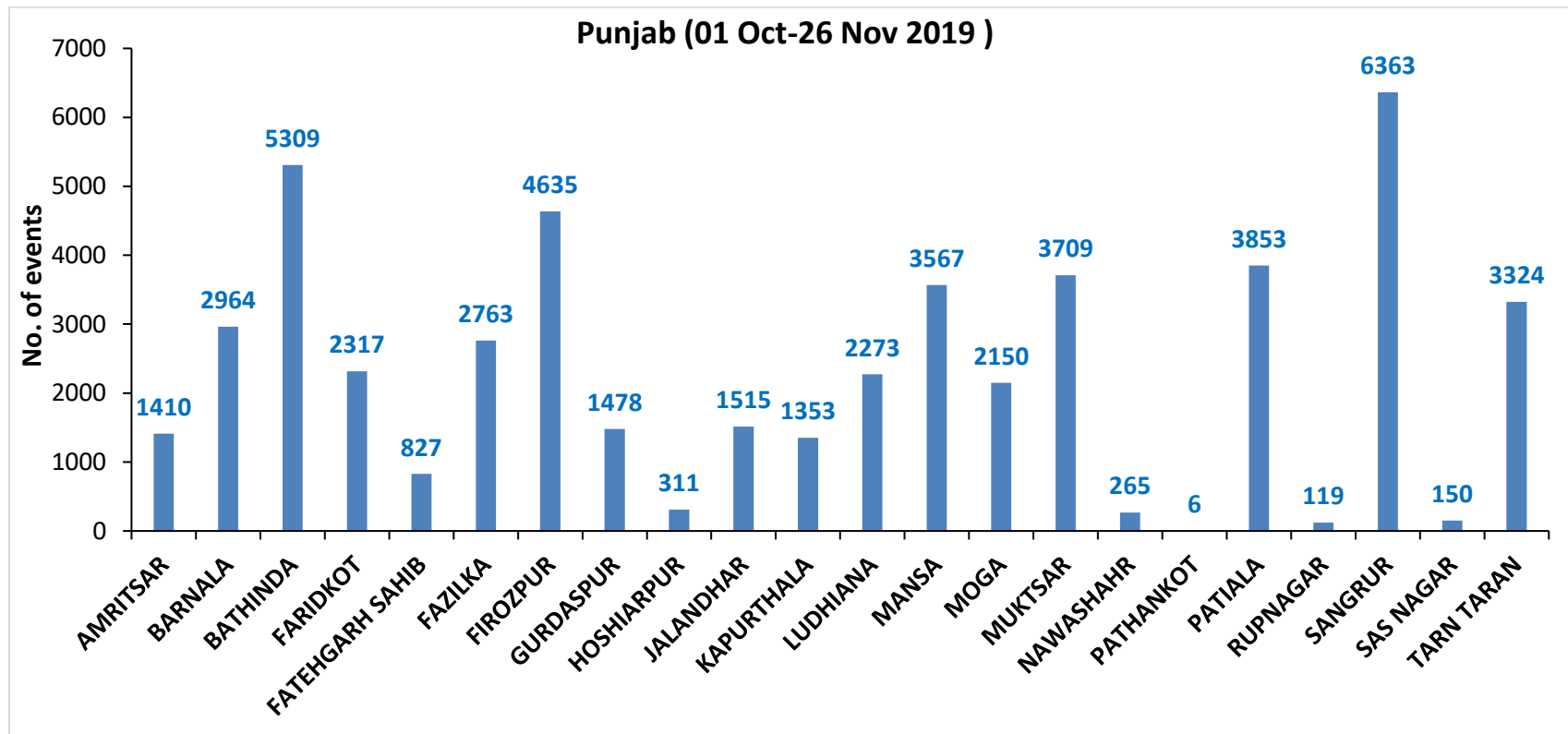
-  0 - 5
-  6 - 10
-  11 - 15
-  16 - 20
-  >20

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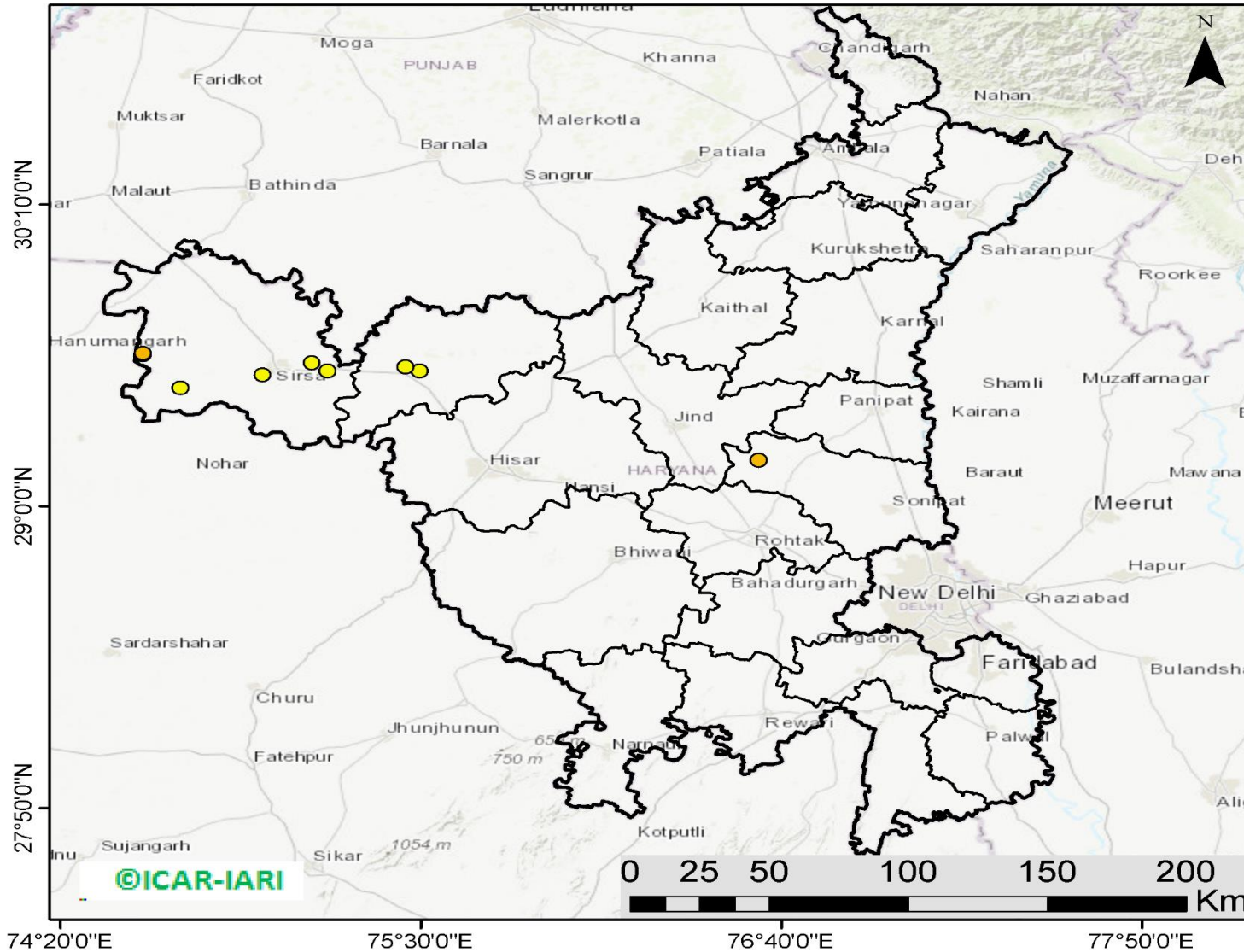
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (01 Oct to 26-Nov 2019)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



09 burning events detected in Haryana on 26th November 2019

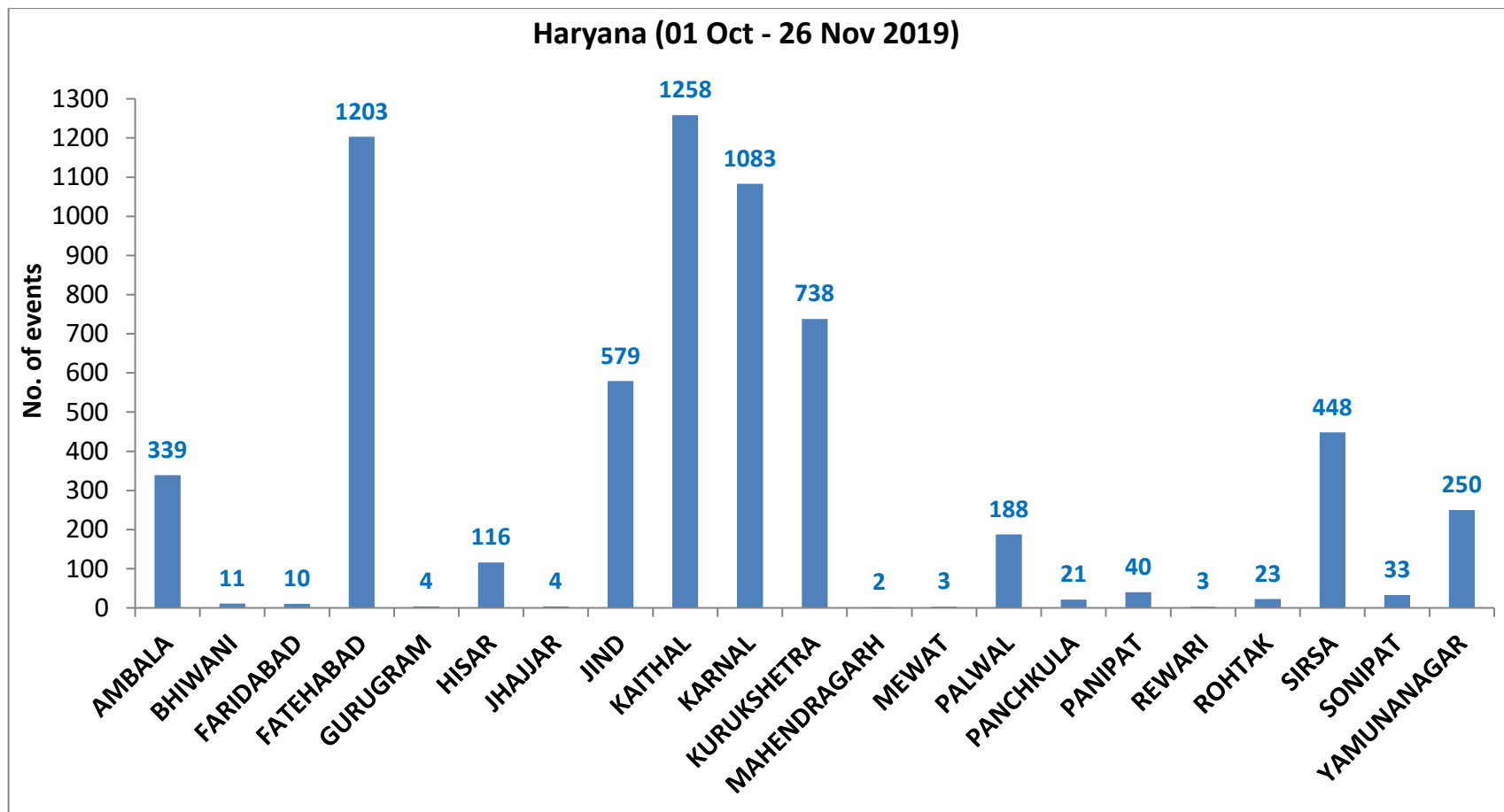
Fire Intensity (W/m²)

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



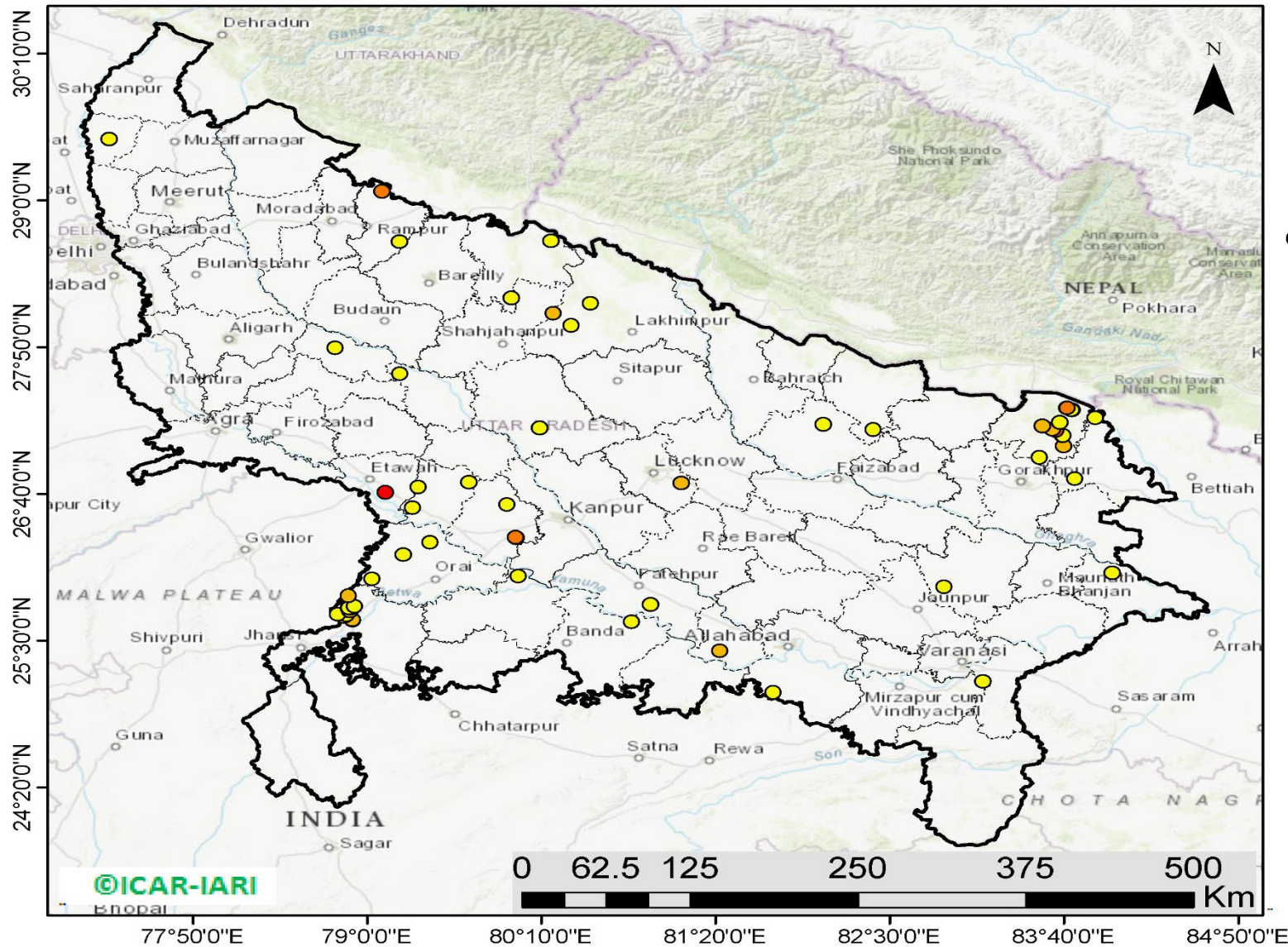
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District-wise cumulative number of residues burning events in Haryana (01 Oct to 26-Nov 2019)



(c) UP

RICE RESIDUE BURNING IN UTTAR PRADESH



62 burning events detected in Uttar Pradesh on 26th November 2019

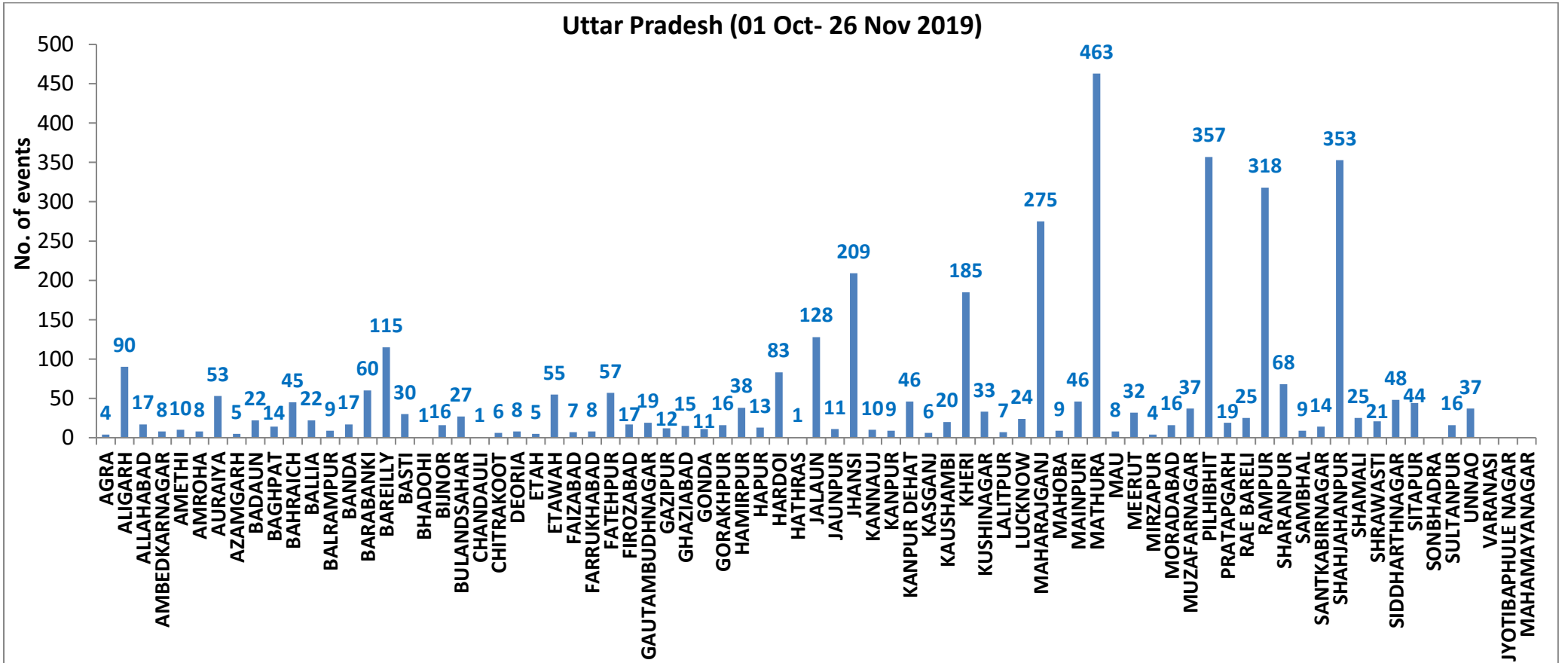
Fire Intensity (W/m²)

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



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

District-wise cumulative number of residues burning events in Uttar Pradesh (01 Oct to 26-Nov 2019)



State-wise, date-wise and district-wise number of residues burning events detected in 2016, 2017, 2018 and 2019
(Period: 01-Oct to 26-Nov)

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

03-Nov	2646	972	2109	3806	68	202	240	275	56	181	75	409	2770	1355	2424	4490
04-Nov	6001	882	4603	4477	383	77	499	146	75	183	168	265	6459	1142	5270	4888
05-Nov	4199	2989	2876	4137	253	129	625	345	124	163	367	125	4576	3281	3868	4607
06-Nov	4642	3071	171	6303	243	222	26	322	118	130	357	215	5003	3423	554	6840
07-Nov	189	4033	420	8575	2	568	46	821	33	108	149	244	224	4709	615	9640
08-Nov	462	4450	2256	4129	16	313	128	432	54	338	43	419	532	5101	2427	4980
09-Nov	2003	2083	675	4857	199	199	311	608	96	294	107	205	2298	2473	1093	5670
10-Nov	2046	1675	1642	2468	151	85	509	484	147	125	131	109	2344	1885	2282	3061
11-Nov	783	1364	103	5040	78	196	29	716	174	45	358	129	1035	1605	490	5885
12-Nov	520	1256	33	1477	68	122	3	634	210	45	269	129	798	1423	305	2240
13-Nov	10	1563	237	885	16	146	7	389	79	94	109	338	105	1803	353	1612
14-Nov	0	765	1101	692	1	189	340	171	22	128	95	247	23	1082	1536	1110
15-Nov	92	1480	5	871	29	107	40	107	111	146	123	154	232	1733	168	1132
16-Nov	23	1250	8	911	59	204	17	318	79	112	218	123	161	1566	243	1352
17-Nov	332	1132	217	638	85	289	12	299	265	103	249	130	682	1524	478	1067
18-Nov	740	1400	2147	568	70	356	139	312	113	111	180	217	923	1867	2466	1097
19-Nov	1221	752	2200	168	82	159	471	125	39	3	122	273	1342	914	2793	566
20-Nov	1007	385	1857	240	74	88	325	204	64	243	101	183	1145	716	2283	627
21-Nov	151	480	2310	112	37	161	378	115	84	107	205	86	272	748	2893	313
22-Nov	21	287	719	99	19	122	154	118	116	72	281	148	156	481	1154	365
23-Nov	283	317	1033	54	14	180	259	97	100	106	163	151	400	603	1455	302
24-Nov	293	229	507	21	23	152	192	36	72	186	105	265	388	567	804	322
25-Nov	266	72	443	33	31	81	219	68	18	272	124	123	315	425	786	224
26-Nov	8	95	334	27	9	57	240	25	62	73	186	85	79	225	760	137
Total	50661	59594	66636	102326	6356	9099	12718	15587	3877	6320	8205	9244	60894	75013	87559	127157

(a) Punjab

Districts	01Oct-26 Nov			
	2016	2017	2018	2019
AMRITSAR	2170	1352	1393	1410
BARNALA	5699	3413	3278	2964
BATHINDA	8843	5732	6341	5309
FARIDKOT	4628	3464	3057	2317
FATEHGARH SAHIB	2461	1642	861	827
FAZILKA	0	0	0	2763
FIROZPUR	13633	9870	9981	4635
GURDASPUR	2215	1587	1169	1478
HOSHIARPUR	901	495	198	311
JALANDHAR	4660	2116	1393	1515
KAPURTHALA	3136	1623	750	1353
LUDHIANA	9545	4711	3033	2273
MANSA	5648	4480	4316	3567
MOGA	6393	2746	2729	2150
MUKTSAR	7032	5391	5778	3709
NAWASHAHR (SBS Nagar)	1611	822	389	265
PATHANKOT	0	0	0	6
PATIALA	6544	5031	4213	3853
RUPNAGAR	717	328	86	119
SANGRUR	11862	8427	7780	6363
SAS NAGAR	115	107	104	150
TARN TARAN	4513	3299	2745	3324
Total	102326	66636	59594	50661

(b) Haryana

Districts	01Oct-26 Nov			
	2016	2017	2018	2019
AMBALA	534	500	329	339
BHIWANI	85	45	20	11
FARIDABAD	288	343	185	10
FATEHABAD	4826	3698	2532	1203
GURUGRAM	0	0	0	4
HISAR	406	188	209	116
JHAJJAR	36	19	29	4
JIND	858	943	883	579
KAITHAL	1748	1512	1292	1258
KARNAL	1637	1508	851	1083
KURUKSHETRA	1078	1148	680	738
MAHENDRAGARH	0	0	0	2
MEWAT	0	0	0	3
PALWAL	0	0	0	188
PANCHKULA	0	0	3	21
PANIPAT	93	102	60	40
REWARI	0	0	0	3
ROHTAK	99	91	47	23
SIRSA	3561	2230	1739	448
SONIPAT	94	74	41	33
YAMUNANAGAR	244	317	199	250
Total	15587	12718	9099	6356

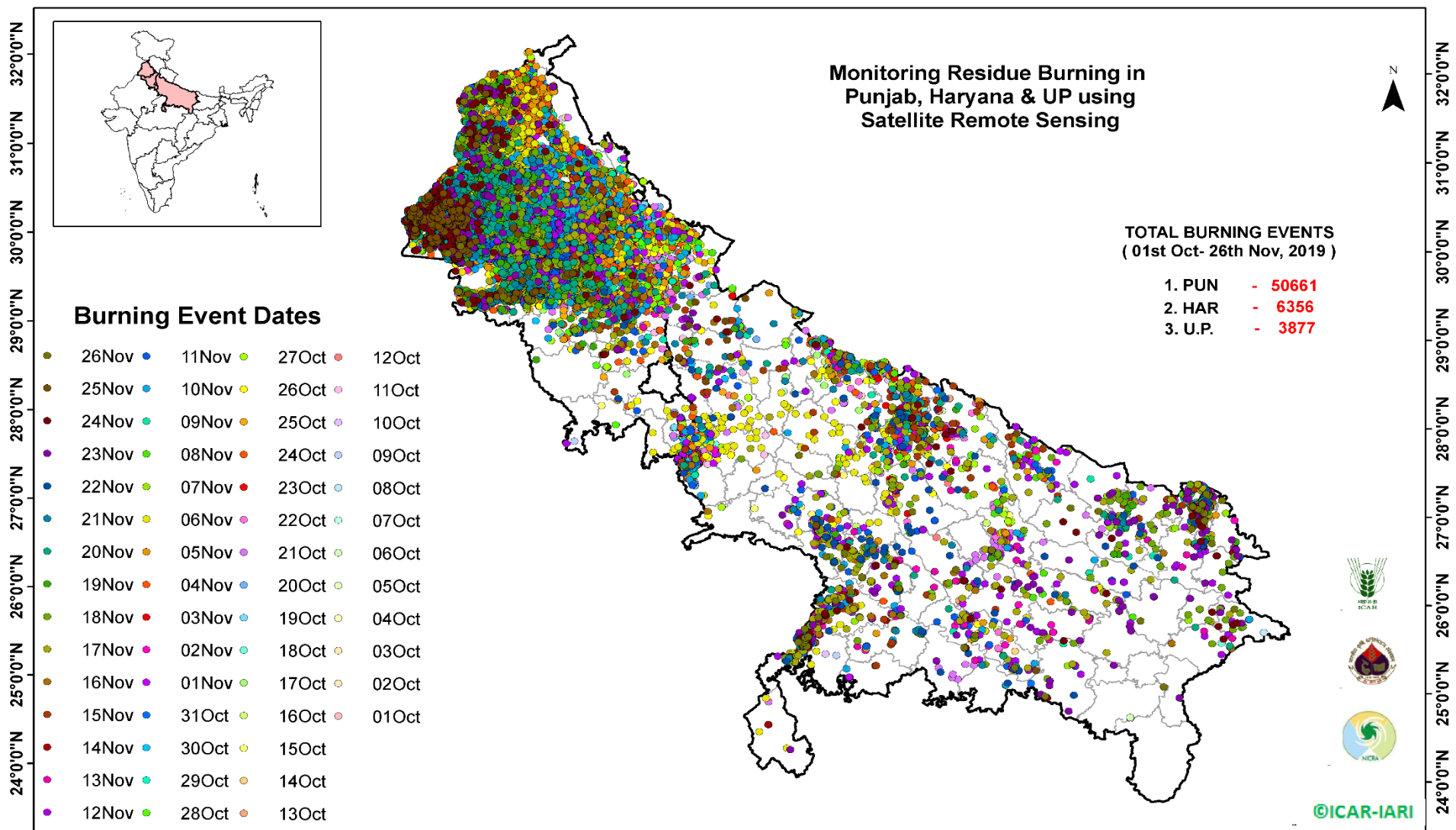
(c) Uttar Pradesh

Districts	01Oct-26 Nov			
	2016	2017	2018	2019
AGRA	0	0	0	4
ALIGARH	55	80	93	90
ALLAHABAD	6	16	20	17
AMBEDKARNAGAR	76	56	28	8
AMETHI	0	0	0	10
AMROHA	0	0	0	8
AURAIYA	271	233	70	53
AZAMGARH	38	46	35	5
BADAUN	12	9	14	22
BAGHPAT	0	0	0	14
BAHRAICH	81	40	60	45
BALLIA	19	42	28	22
BALRAMPUR	37	27	44	9
BANDA	2	20	12	17
BARABANKI	220	167	175	60
BAREILLY	258	232	118	115
BASTI	146	186	125	30
BHADOHI	0	0	0	1
BIJNOR	65	62	19	16
BULANDSAHAR	32	35	21	27
CHANDAULI	18	15	2	1
CHITRAKOOT	0	0	0	6
DEORIA	62	78	78	8
ETAH	22	32	28	5
ETAWAH	178	132	70	55
FAIZABAD	15	15	10	7
FARRUKHABAD	0	0	0	8
FATEHPUR	74	57	89	57
FIROZABAD	23	18	11	17

GAUTAMBUDHNAGAR	29	43	12	19
GAZIPUR	16	18	24	12
GHAZIABAD	89	61	38	15
GONDA	48	34	22	11
GORAKHPUR	66	112	141	16
HAMIRPUR	0	0	1	38
HAPUR	0	0	0	13
HARDOI	257	205	113	83
HATHRAS	0	0	0	1
JALAUN	0	0	0	128
JAUNPUR	24	34	26	11
JHANSI	0	0	2	209
KANNAUJ	35	18	8	10
KANPUR	20	10	13	9
KANPUR DEHAT	68	70	29	46
KASGANJ	0	0	0	6
KAUSHAMBI	33	49	52	20
KHERI	469	314	221	185
KUSHINAGAR	66	152	169	33
LALITPUR	0	0	0	7
LUCKNOW	62	30	26	24
MAHARAJGANJ	717	1018	1065	275
MAHOBA	0	0	0	9
MAINPURI	94	94	60	46
MATHURA	1458	1083	1049	463
MAU	15	19	20	8
MEERUT	93	102	22	32
MIRZAPUR	5	15	9	4
MORADABAD	57	40	15	16
MUZAFARNAGAR	143	169	59	37
PILHIBHIT	952	737	436	357
PRATAPGARH	45	55	43	19

RAE BARELI	115	118	73	25
RAMPUR	623	646	226	318
SHARANPUR	122	150	72	68
SAMBHAL	0	0	0	9
SANTKABIRNAGAR	56	63	54	14
SHAHJAHANPUR	1148	700	388	353
SHAMALI	0	0	0	25
SHRAWASTI	37	31	36	21
SIDDHARTHANAGAR	259	185	472	48
SITAPUR	136	82	48	44
SONBHADRA	16	16	12	0
SULTANPUR	78	59	59	16
UNNAO	67	56	41	37
VARANASI	2	0	0	0
JYOTIBAPHULE NAGAR	12	17	6	0
MAHAMAYANAGAR	2	2	8	0
Total	9244	8205	6320	3877

Map of Cumulative Burning Events (01 Oct – 26 Nov 2019)



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

Details of residue burning events in Punjab on 26-Nov-2019

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	S-NPP	74.57069	31.73242	13:42:00	D	1.90
2	AMRITSAR	AMRITSAR II	S-NPP	74.70609	31.54544	13:42:00	D	5.60
3	AMRITSAR	AMRITSAR II	S-NPP	74.70547	31.54891	13:42:00	D	6.30
4	FARIDKOT	JAITO	TERRA	74.82900	30.50000	11:30:00	D	7.40
5	FARIDKOT	JAITO	TERRA	74.81700	30.50200	11:30:00	D	54.60
6	FAZILKA	ABOHAR	TERRA	74.44900	30.01700	11:30:00	D	7.30
7	MUKTSAR	MALAUT	TERRA	74.60300	30.10400	11:30:00	D	49.80
8	TARN TARAN	KHADOOR SAHIB	S-NPP	74.84428	31.40574	13:42:00	D	4.10

Details of residue burning events in Haryana on 26-Nov-2019

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	FATEHABAD	FATEHABAD	S-NPP	75.49560	29.52383	02:24:00	N	0.70
2	FATEHABAD	FATEHABAD	S-NPP	75.44928	29.53995	02:24:00	N	0.60
3	SIRSA	ELLENABAD	S-NPP	74.72198	29.45792	02:24:00	N	1.80
4	SIRSA	RANIA	S-NPP	74.60057	29.58722	13:42:00	D	7.10
5	SIRSA	RANIA	S-NPP	74.59996	29.59062	13:42:00	D	7.10
6	SIRSA	SIRSA	S-NPP	74.98817	29.50767	02:24:00	N	1.20
7	SIRSA	SIRSA	S-NPP	75.19756	29.52310	02:24:00	N	0.40
8	SIRSA	SIRSA	S-NPP	75.14666	29.55483	02:24:00	N	0.40
9	SONIPAT	GOHANA	NOAA-19	76.59238	29.17901	06:12:00	N	7.33

Details of residue burning events in Uttar Pradesh on 26-Nov-2019

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m2)
1	ALLAHABAD	BARA	S-NPP	81.71980	25.08976	02:24:00	N	0.50
2	AURAIYA	AURAIYA	S-NPP	79.55064	26.45142	02:24:00	N	0.30
3	AURAIYA	AURAIYA	S-NPP	79.30440	26.55700	13:42:00	D	3.40
4	AURAIYA	BIDHUNA	S-NPP	79.34316	26.72085	13:42:00	D	1.50
5	AURAIYA	BIDHUNA	S-NPP	79.68155	26.75796	02:24:00	N	0.80
6	AZAMGARH	PHULPUR	S-NPP	82.86481	25.92681	13:42:00	D	2.90
7	BALLIA	SIKANDARPUR	S-NPP	83.98838	26.03554	13:42:00	D	4.70
8	BALRAMPUR	UTRAULA	S-NPP	82.38969	27.17864	02:24:00	N	0.70
9	BANDA	BABERU	S-NPP	80.76943	25.64913	13:42:00	D	4.40
10	ETAWAH	BHARTHNA	AQUA	79.12000	26.67900	13:00:00	D	39.00
11	FARRUKHABAD	KARIMGANJ	S-NPP	79.21936	27.62062	13:42:00	D	5.00
12	FARRUKHABAD	KARIMGANJ	S-NPP	79.21951	27.62152	13:42:00	D	4.80
13	FATEHPUR	FATEHPUR	S-NPP	80.89630	25.78692	13:42:00	D	3.80
14	GONDA	GONDA	S-NPP	82.05563	27.22057	13:42:00	D	3.10
15	HAMIRPUR	HAMIRPUR	S-NPP	80.01142	26.01101	13:42:00	D	4.10
16	HARDOI	HARDOI	S-NPP	80.15355	27.19042	02:24:00	N	1.10
17	JALAUN	JALAUN	S-NPP	79.42065	26.28063	13:42:00	D	3.10
18	JALAUN	KONCH	S-NPP	79.03370	25.99050	13:42:00	D	2.60
19	JALAUN	MADHOGARH	S-NPP	79.24212	26.18301	13:42:00	D	2.60
20	JHANSI	MOTH	S-NPP	78.90140	25.66166	13:42:00	D	7.40
21	JHANSI	MOTH	S-NPP	78.89865	25.66298	13:42:00	D	7.10
22	JHANSI	MOTH	S-NPP	78.84317	25.68899	13:42:00	D	6.90
23	JHANSI	MOTH	S-NPP	78.85847	25.70288	13:42:00	D	5.00
24	JHANSI	MOTH	S-NPP	78.80044	25.70822	13:42:00	D	4.20
25	JHANSI	MOTH	S-NPP	78.88300	25.73408	13:42:00	D	6.60
26	JHANSI	MOTH	S-NPP	78.88594	25.75469	13:42:00	D	8.90
27	JHANSI	MOTH	S-NPP	78.87402	25.75732	13:42:00	D	3.20
28	JHANSI	MOTH	S-NPP	78.87734	25.75976	13:42:00	D	4.80
29	JHANSI	MOTH	S-NPP	78.91618	25.77225	13:42:00	D	3.60
30	JHANSI	MOTH	S-NPP	78.87548	25.85680	13:42:00	D	6.10

31	KANPUR DEHAT	AKBARPUR	S-NPP	79.99746	26.31859	13:42:00	D	5.50
32	KANPUR DEHAT	AKBARPUR	S-NPP	79.99380	26.32045	13:42:00	D	10.10
33	KANPUR DEHAT	RASULABAD	S-NPP	79.93503	26.57982	13:42:00	D	4.20
34	KASGANJ	KASGANJ	S-NPP	78.78447	27.82578	13:42:00	D	3.40
35	KAUSHAMBI	MANJHANPUR	S-NPP	81.36252	25.41700	13:42:00	D	9.30
36	KHERI	GOLA	S-NPP	80.36543	28.00514	02:24:00	N	0.60
37	KHERI	GOLA	S-NPP	80.49609	28.17985	02:24:00	N	1.50
38	KUSHINAGAR	HATA	S-NPP	83.73973	26.78633	13:42:00	D	2.60
39	KUSHINAGAR	HATA	S-NPP	83.73878	26.78650	13:42:00	D	3.00
40	KUSHINAGAR	PADRAUNA	S-NPP	83.87550	27.26912	13:42:00	D	1.70
41	LUCKNOW	MOHANLAL GANJ	S-NPP	81.10193	26.75004	13:42:00	D	7.40
42	LUCKNOW	MOHANLAL GANJ	S-NPP	81.10346	26.75176	13:42:00	D	6.10
43	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.50111	26.95710	13:42:00	D	3.40
44	MAHARAJGANJ	MAHARAJGANJ	AQUA	83.66200	27.04600	13:00:00	D	6.60
45	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.65594	27.12991	13:42:00	D	4.30
46	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.65987	27.13022	13:42:00	D	4.30
47	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.61282	27.17044	13:42:00	D	15.80
48	MAHARAJGANJ	MAHARAJGANJ	AQUA	83.58700	27.18000	13:00:00	D	5.60
49	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.52223	27.20811	13:42:00	D	6.10
50	MAHARAJGANJ	NICHLAUL	S-NPP	83.63734	27.23369	13:42:00	D	2.20
51	MAHARAJGANJ	NICHLAUL	AQUA	83.72400	27.33400	13:00:00	D	10.80
52	MAHARAJGANJ	NICHLAUL	S-NPP	83.71552	27.33432	13:42:00	D	3.20
53	MAHARAJGANJ	NICHLAUL	S-NPP	83.68623	27.34863	13:42:00	D	6.50
54	MAHARAJGANJ	NICHLAUL	S-NPP	83.69018	27.34895	13:42:00	D	10.40
55	MIRZAPUR	CHUNAR	S-NPP	83.12319	25.17422	13:42:00	D	3.90
56	PILHIBHIT	BISALPUR	S-NPP	79.96432	28.22346	02:24:00	N	1.50
57	PILHIBHIT	PURANPUR	S-NPP	80.22905	28.67645	13:42:00	D	2.50
58	RAMPUR	MILAK	S-NPP	79.21495	28.67083	13:42:00	D	2.30
59	RAMPUR	SUAR	S-NPP	79.09872	29.07282	13:42:00	D	12.80
60	SHAHJAHANPUR	PUWANYA	METOP-1	80.24630	28.09983	20:42:00	N	7.60
61	SHAMLI	SHAMLI	S-NPP	77.27077	29.48558	13:42:00	D	4.90
62	UNNAO	UNNAO	S-NPP	80.67113	26.53501	02:24:00	N	0.20

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 / 1000	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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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)
