



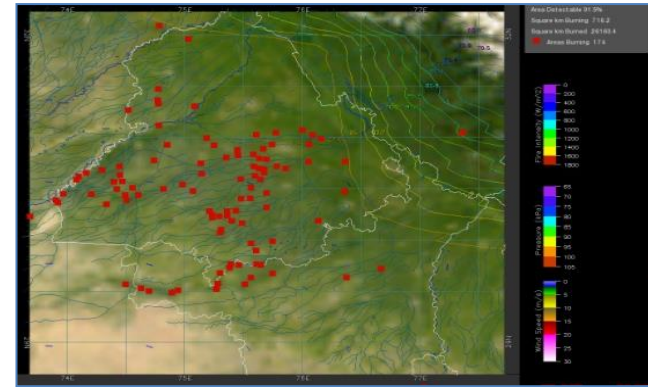
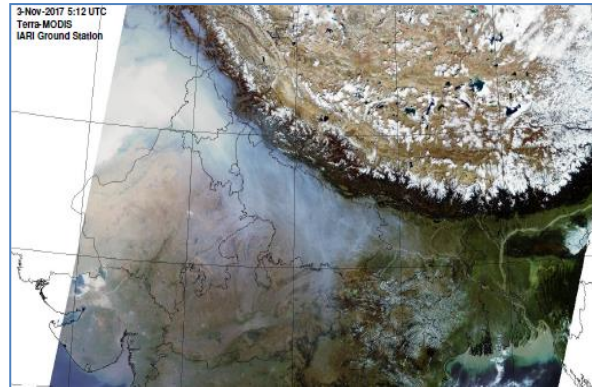
**Bulletin
No. 76**

**Events Date:
29-Nov-2021**

**Issued on:
29-Nov-2021**



MONITORING PADDY RESIDUE BURNING IN INDIA USING SATELLITE REMOTE SENSING DURING 2021



Prepared by:

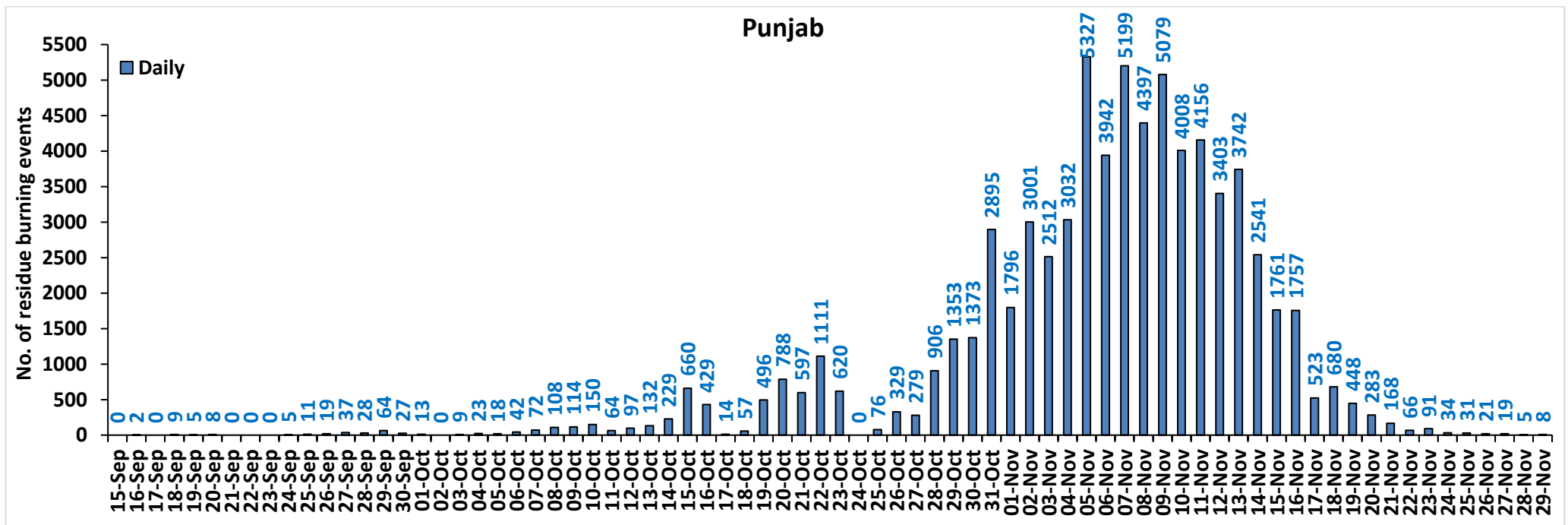
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

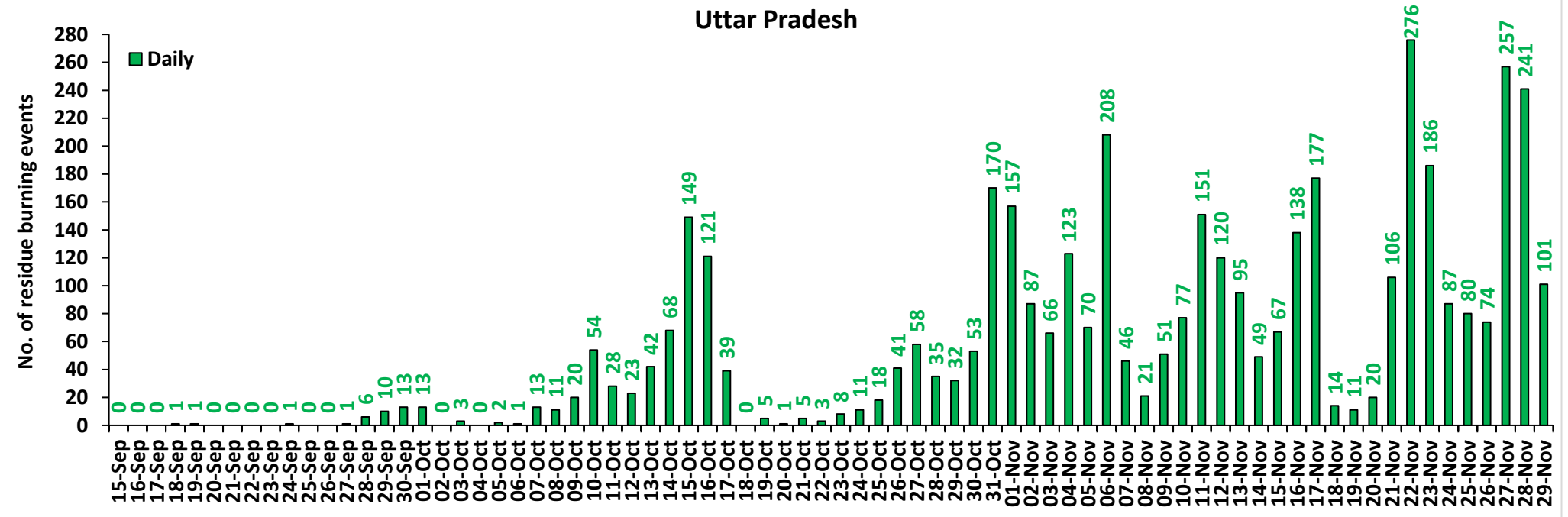
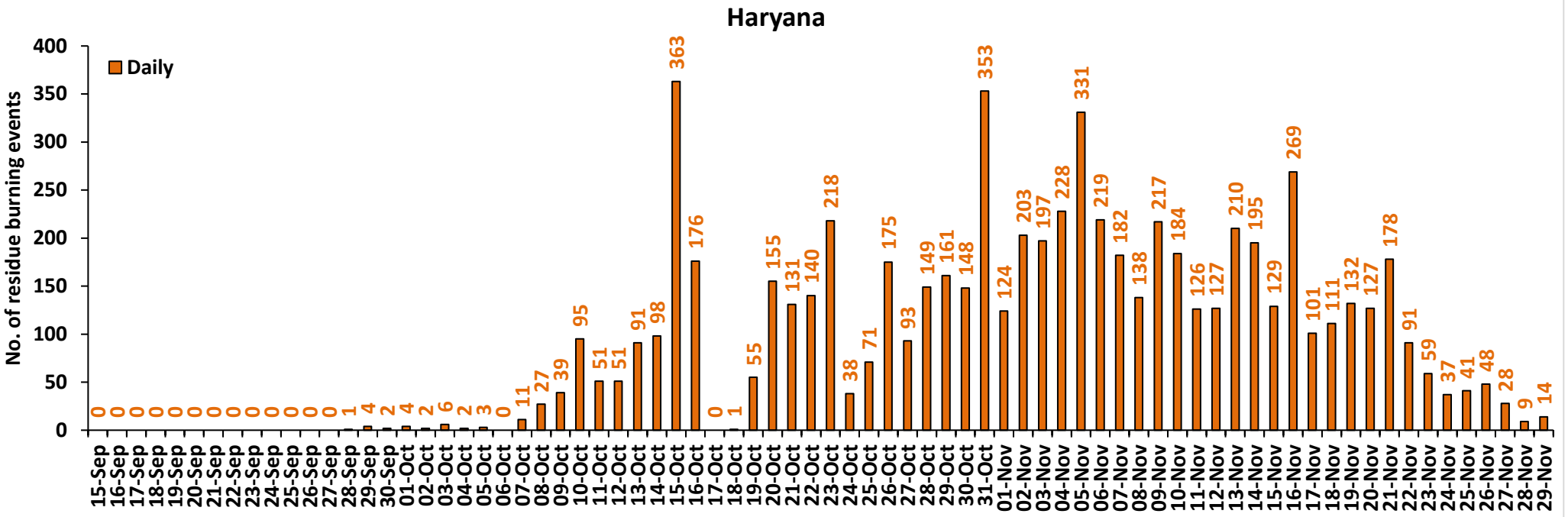
<http://creams.iari.res.in>

Highlights for 29-November-2021

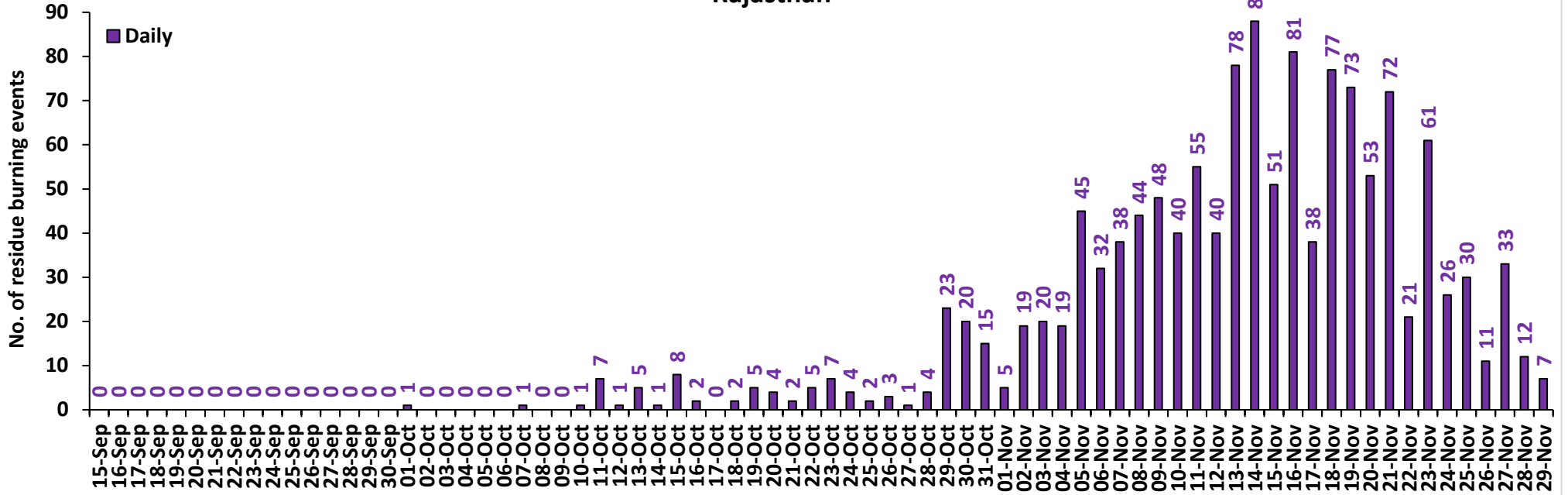
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **225** residue burning events in the six study States on 29-Nov-2021.
- The state wise events detected on 29-Nov-21 were **08** in Punjab, **14** in Haryana, **101** in UP, **00** in Delhi, **07** in Raj and **95** in MP.
- The number of events has decreased from **430** on 28-Nov-2021 to **225** on 29-Nov-2021 in the six study states.
- Total **91975** burning events were detected in the six states between 15-Sept-2021 and 29-Nov-2021, which are distributed as **71299**, **6969**, **4216**, **4**, **1341** and **8146** in Punjab, Haryana, UP, Delhi, Rajasthan and MP, respectively.
- Overall, the total burning events recorded in the six states are **14.4%** less than in 2020 till date. Punjab recorded **14.1%** reduction, Haryana recorded **66.5%** increase, UP recorded **4.7%** reduction, Delhi recorded **55.6%** reduction, Rajasthan recorded **23.4%** reduction and MP recorded **42.3%** reduction, in the current season than in 2020.

Temporal distribution of rice residue burning events for the study States in 2021

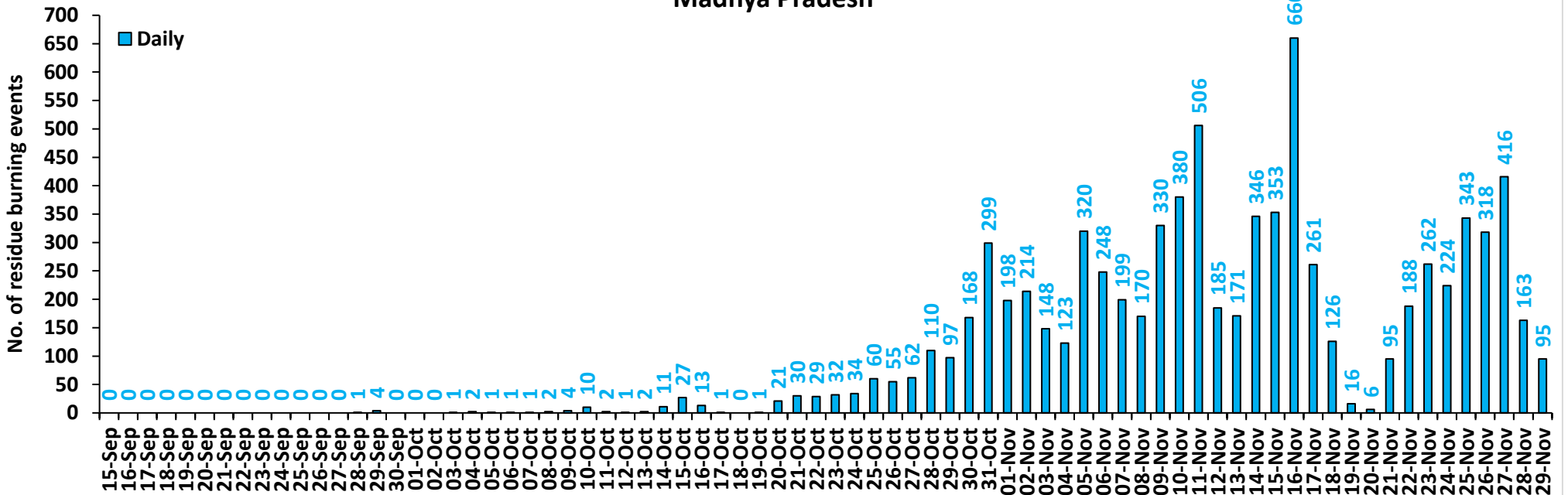




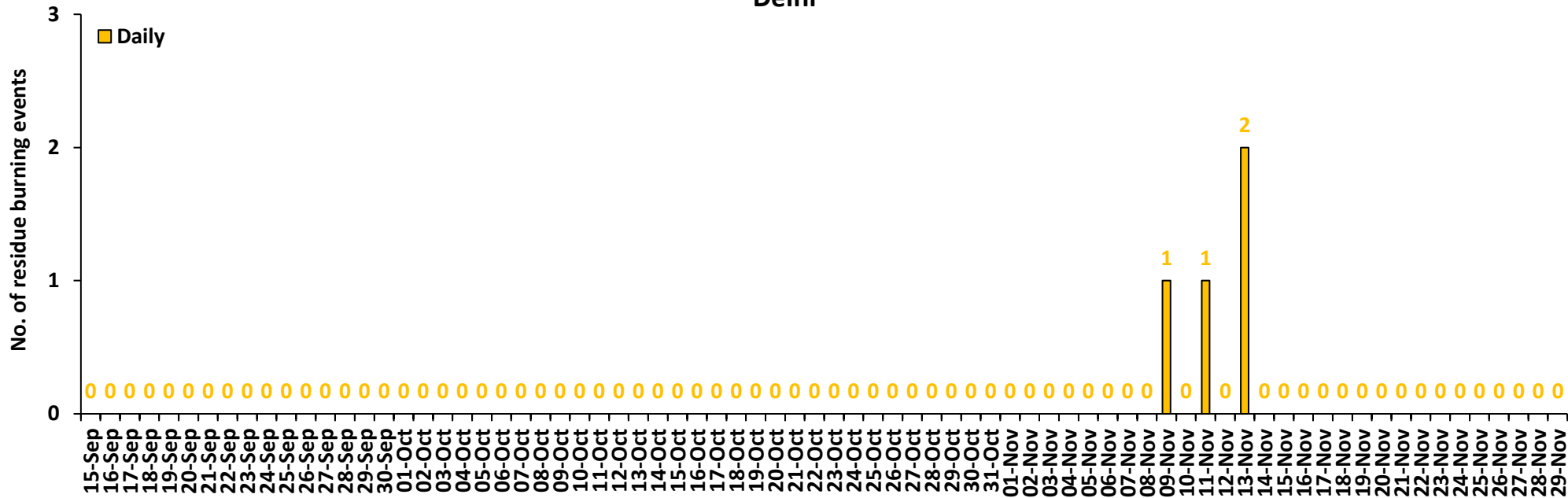
Rajasthan



Madhya Pradesh

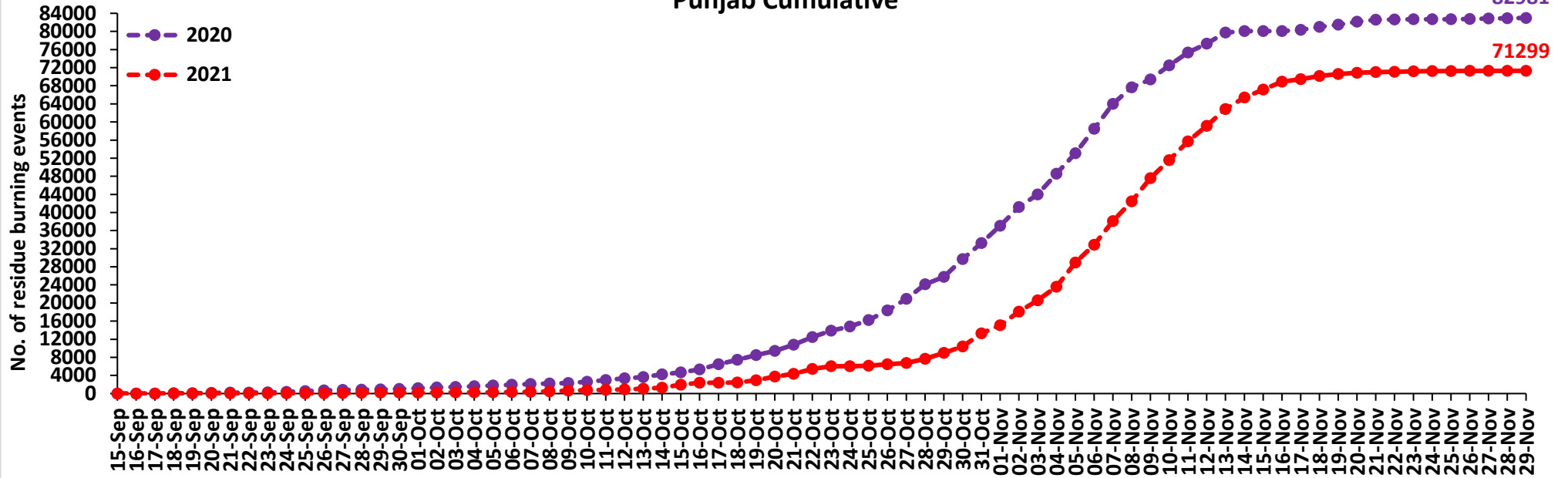


Delhi

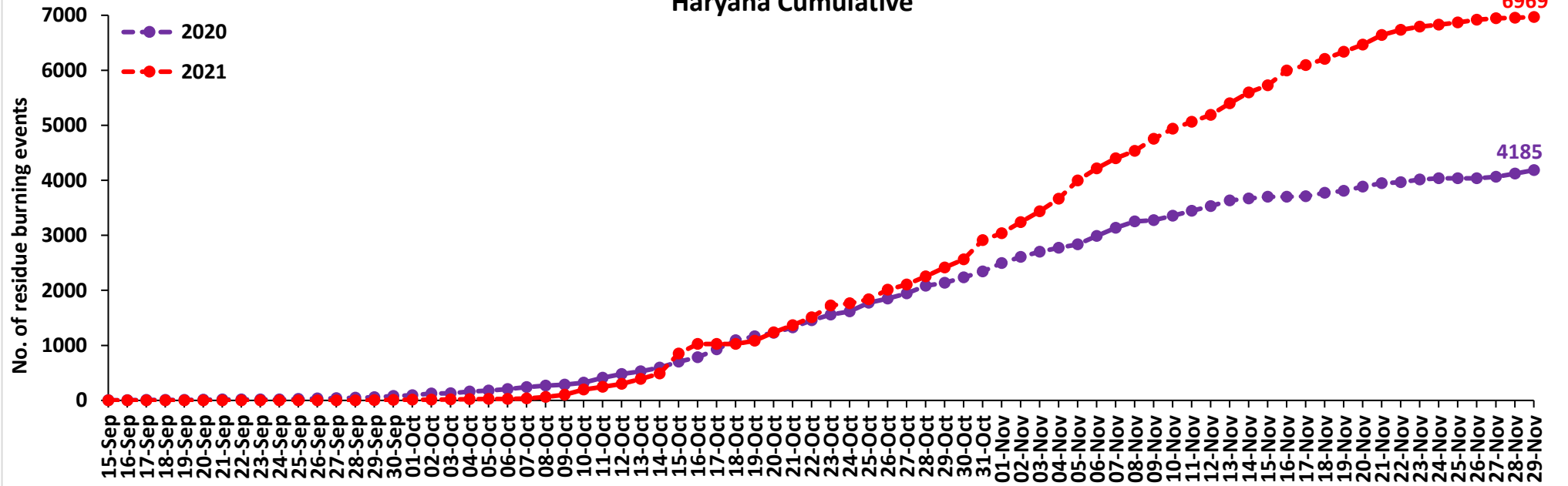


Comparison of residue burning events in current year (2021) with previous year (2020) for the study States

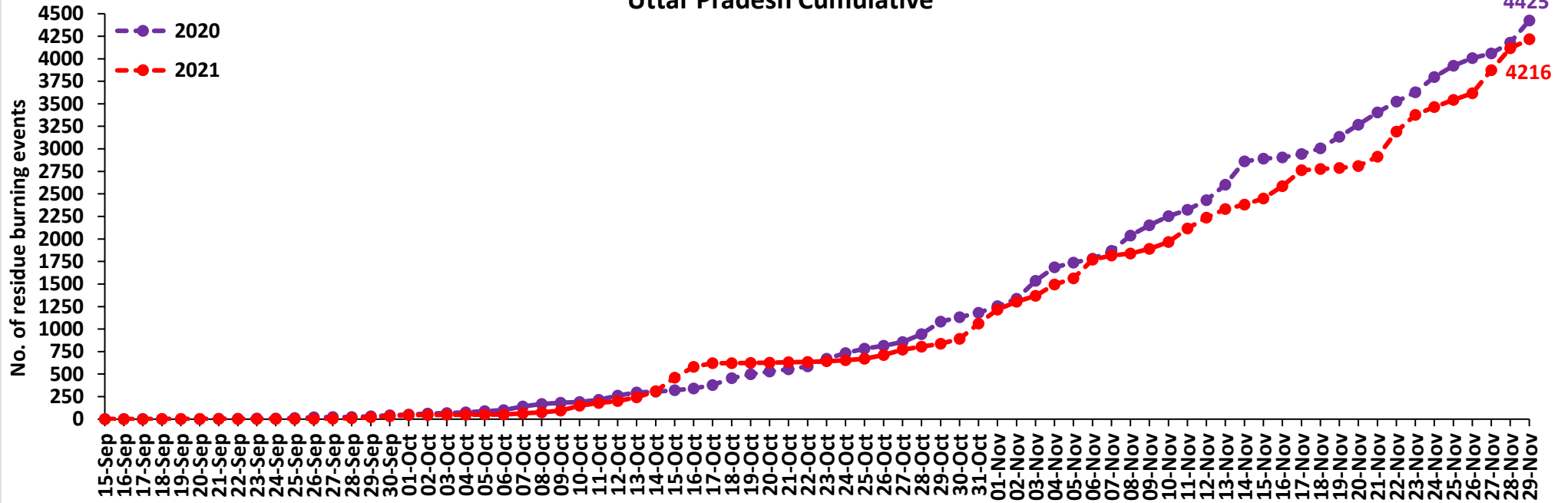
Punjab Cumulative



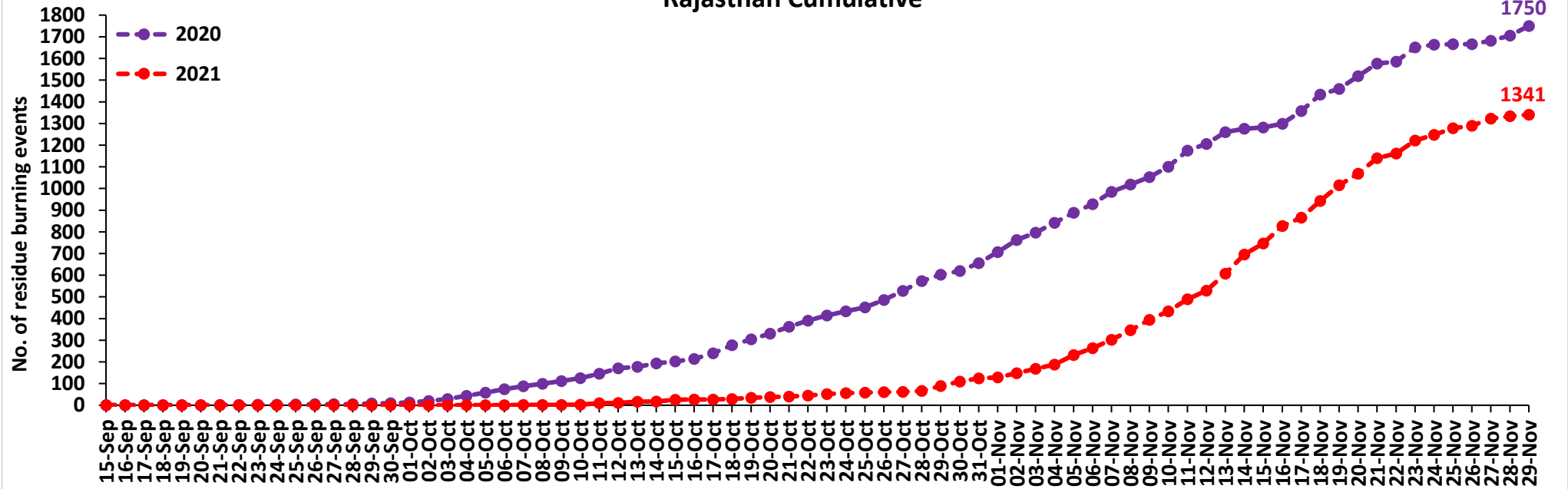
Haryana Cumulative



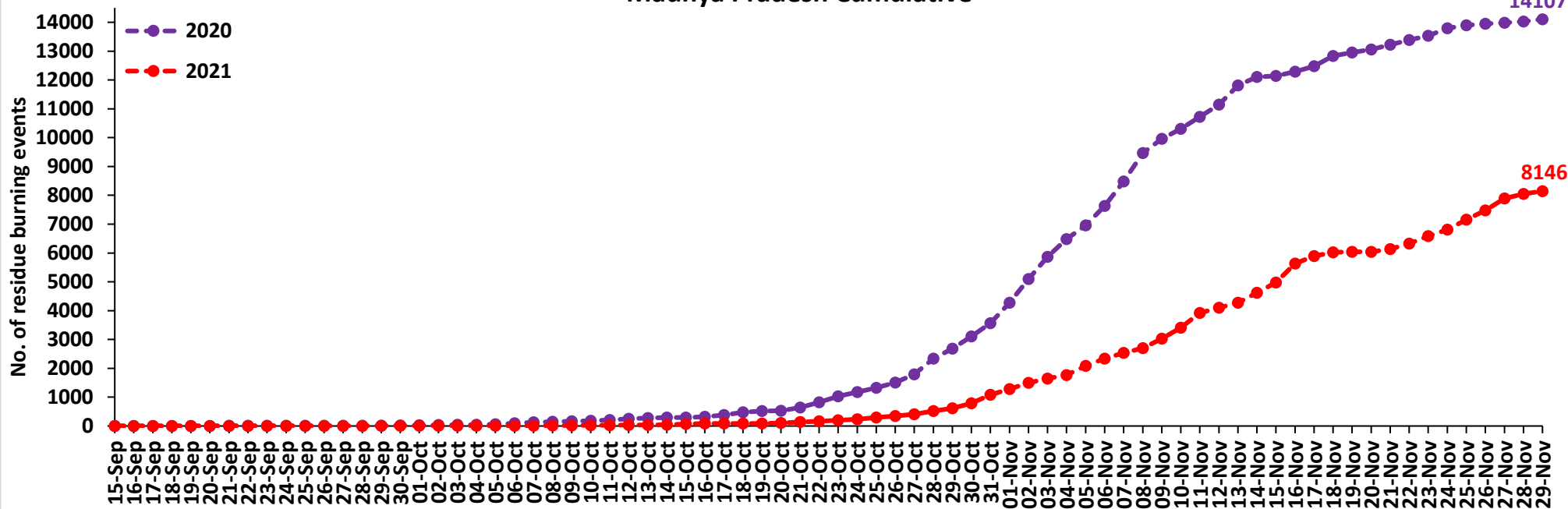
Uttar Pradesh Cumulative



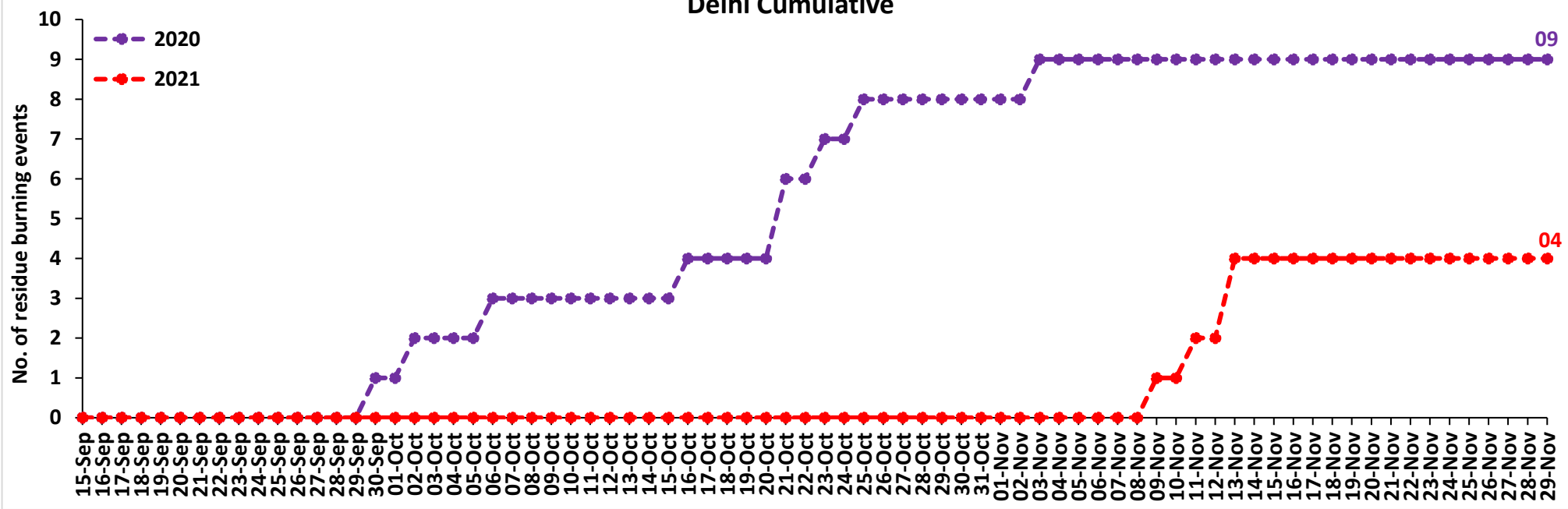
Rajasthan Cumulative



Madhya Pradesh Cumulative

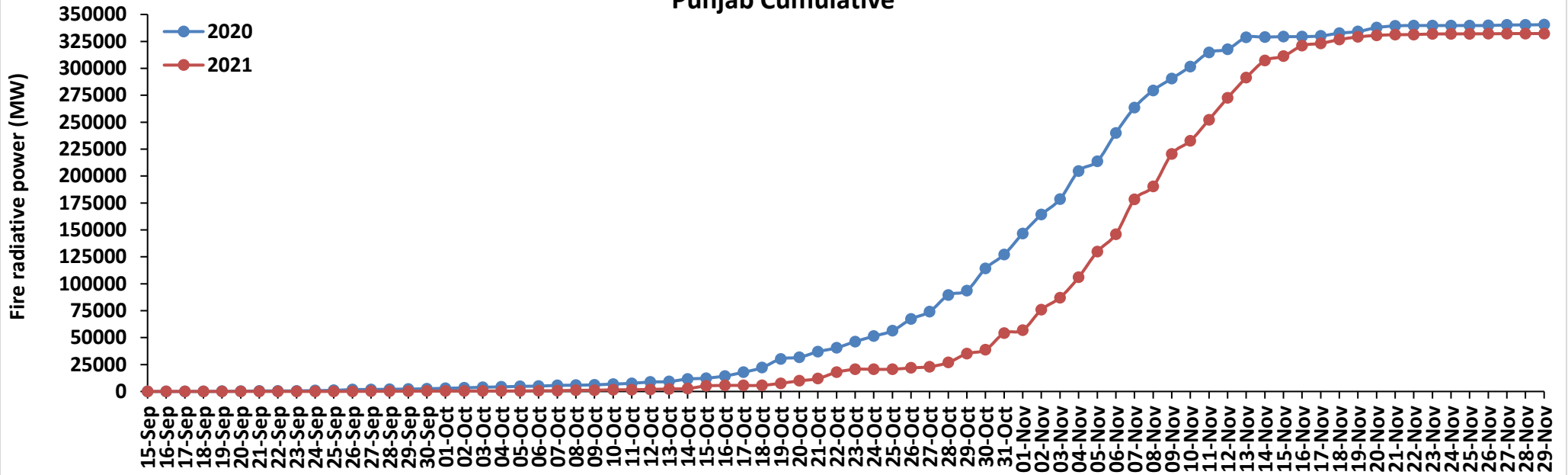


Delhi Cumulative

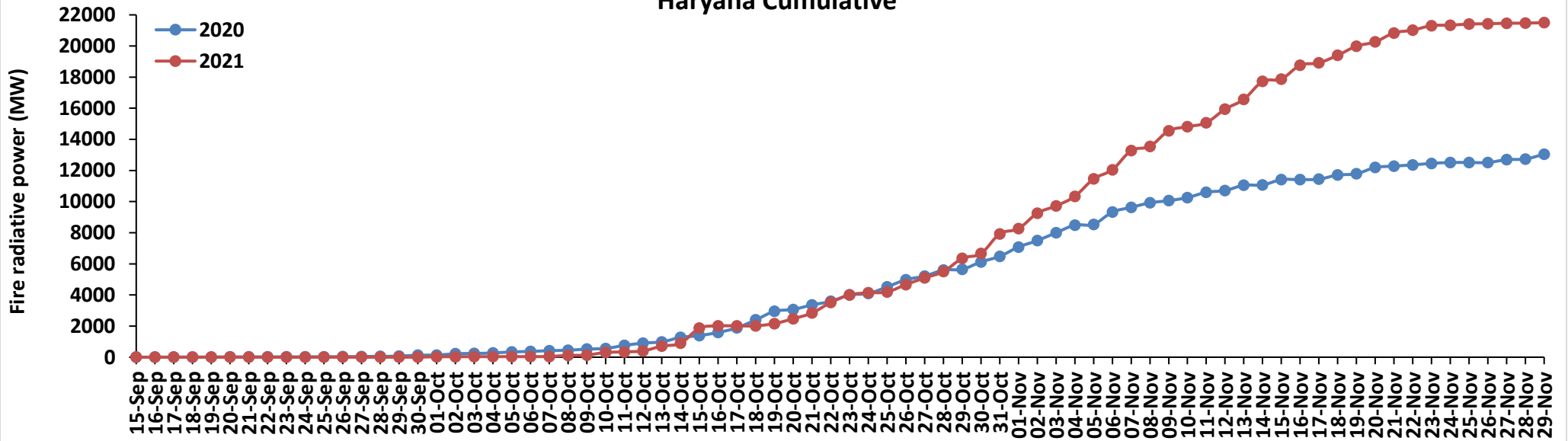


Comparison of residue burning fire power in current year (2021) with previous year (2020) for the study States

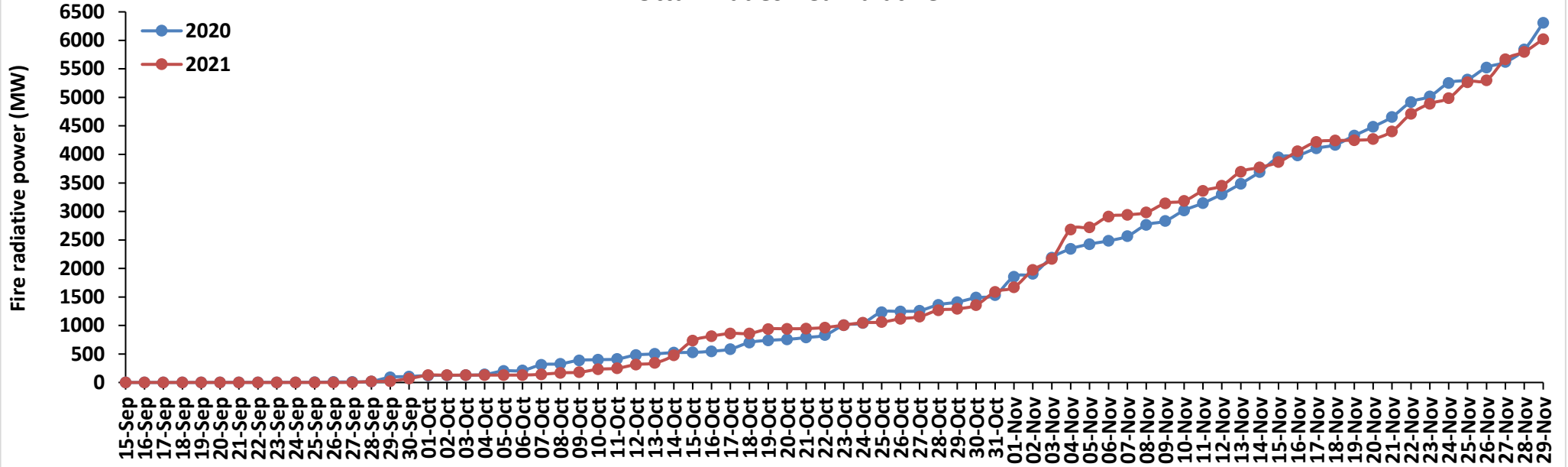
Punjab Cumulative



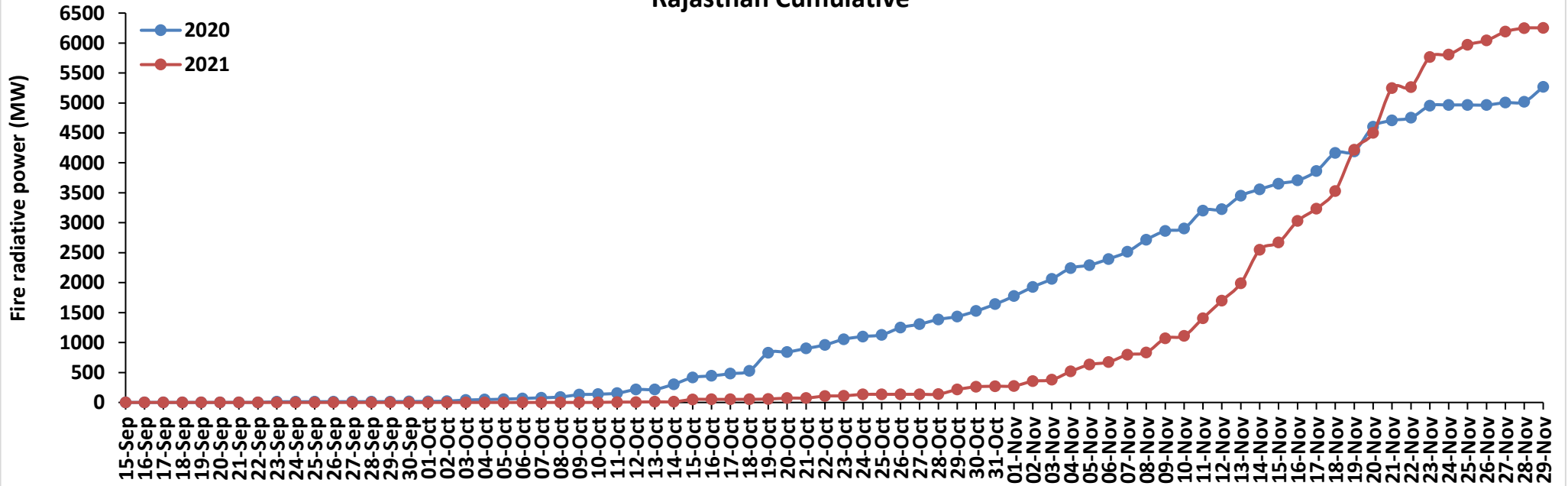
Haryana Cumulative



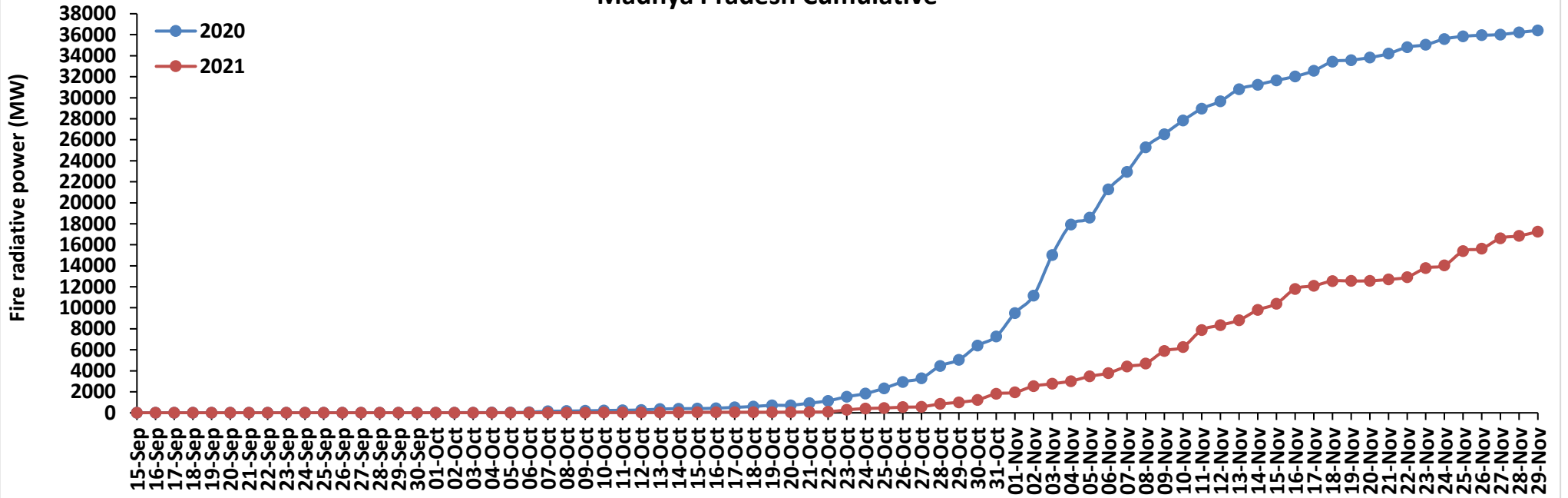
Uttar Pradesh Cumulative



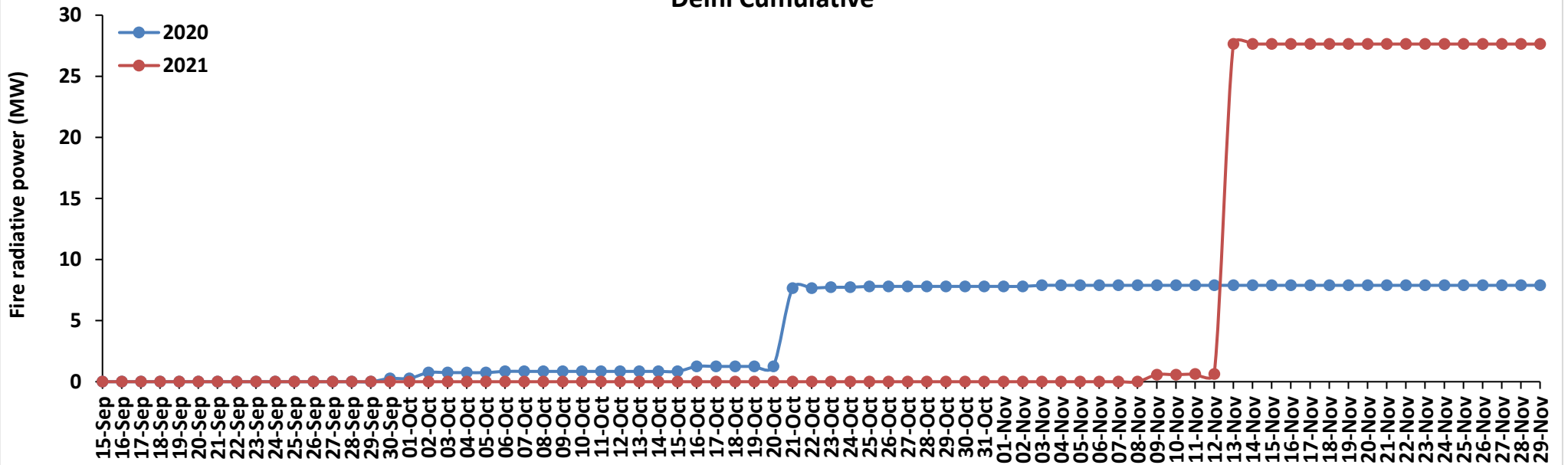
Rajasthan Cumulative



Madhya Pradesh Cumulative

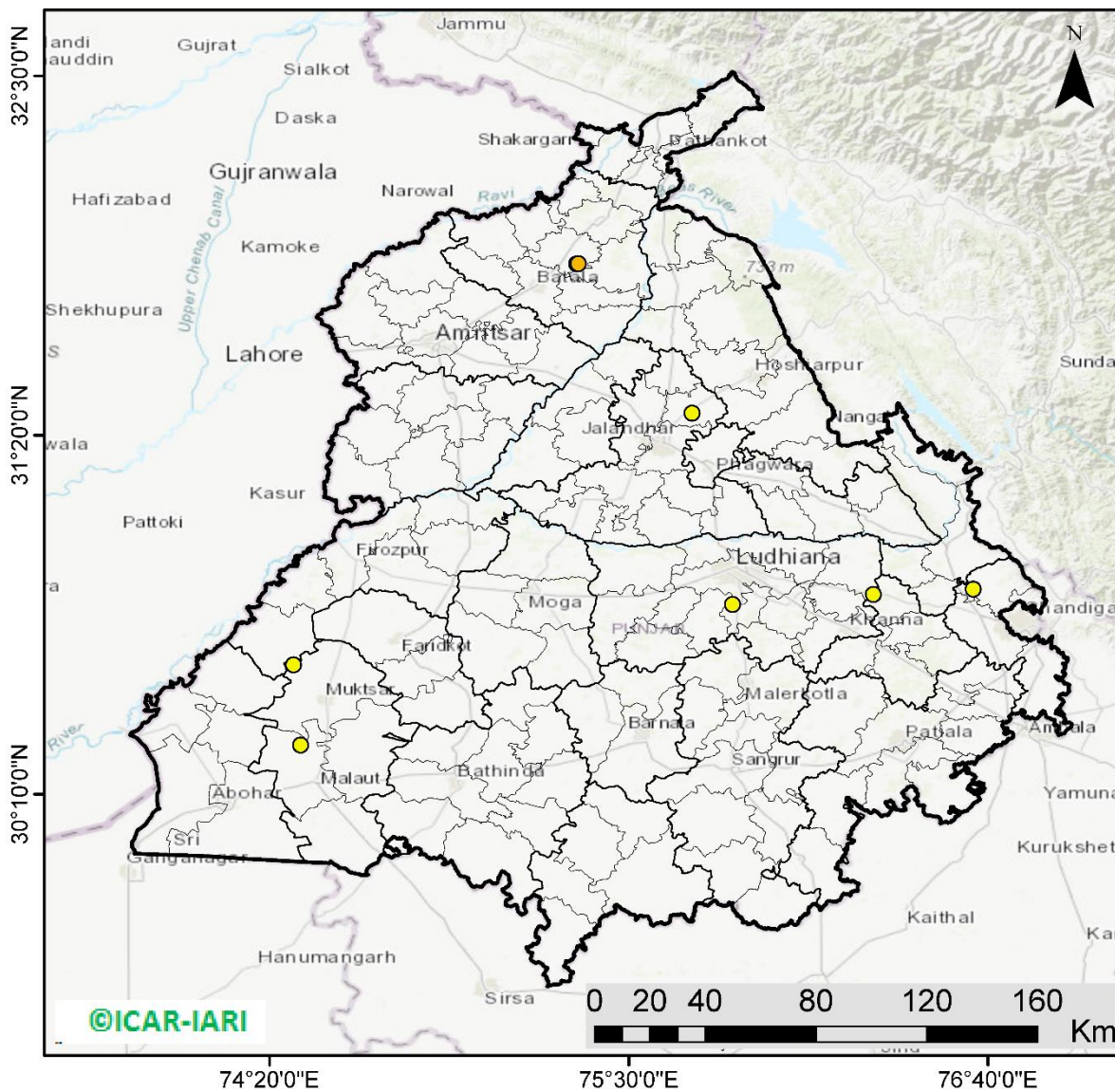


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



08 burning events detected in Punjab on 29th November 2021

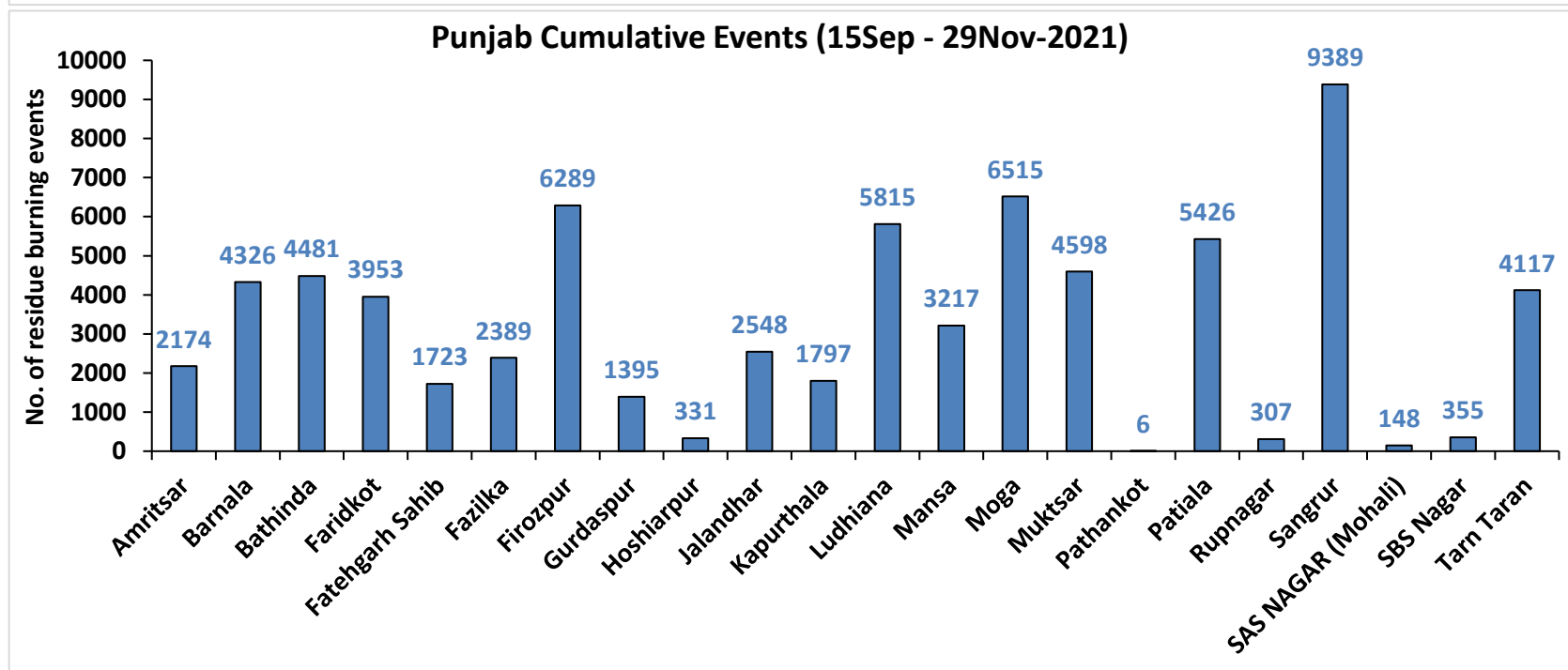
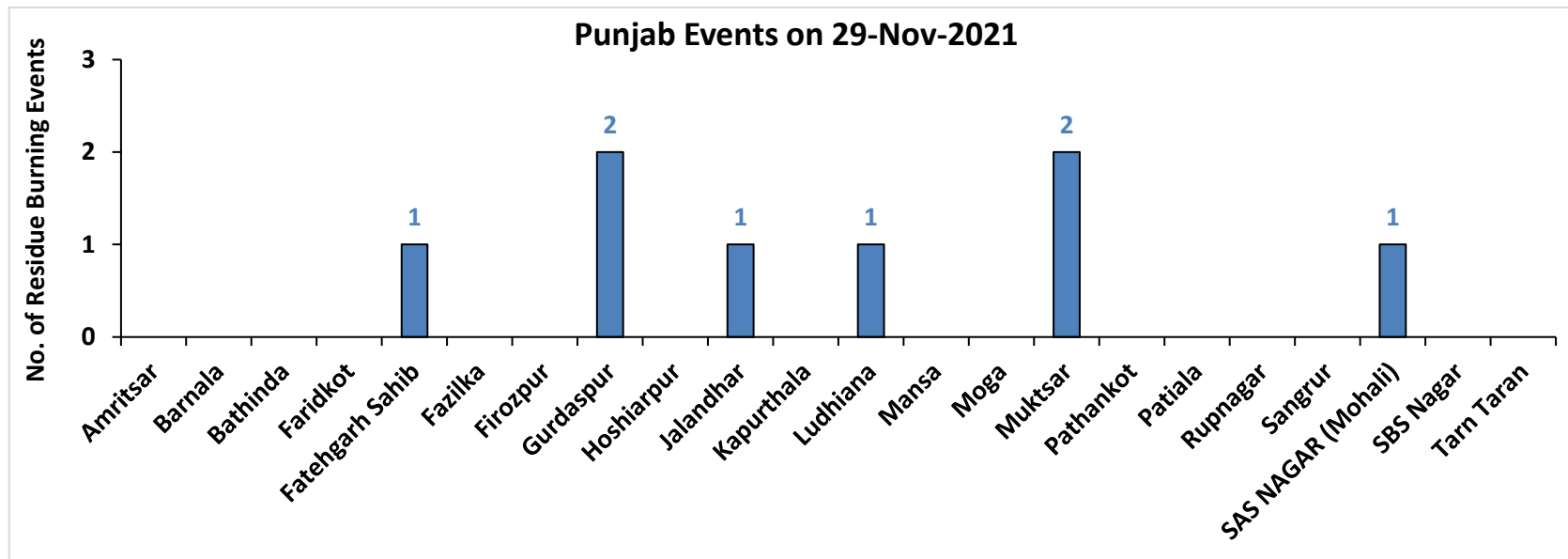
Fire Intensity (W/m²)

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



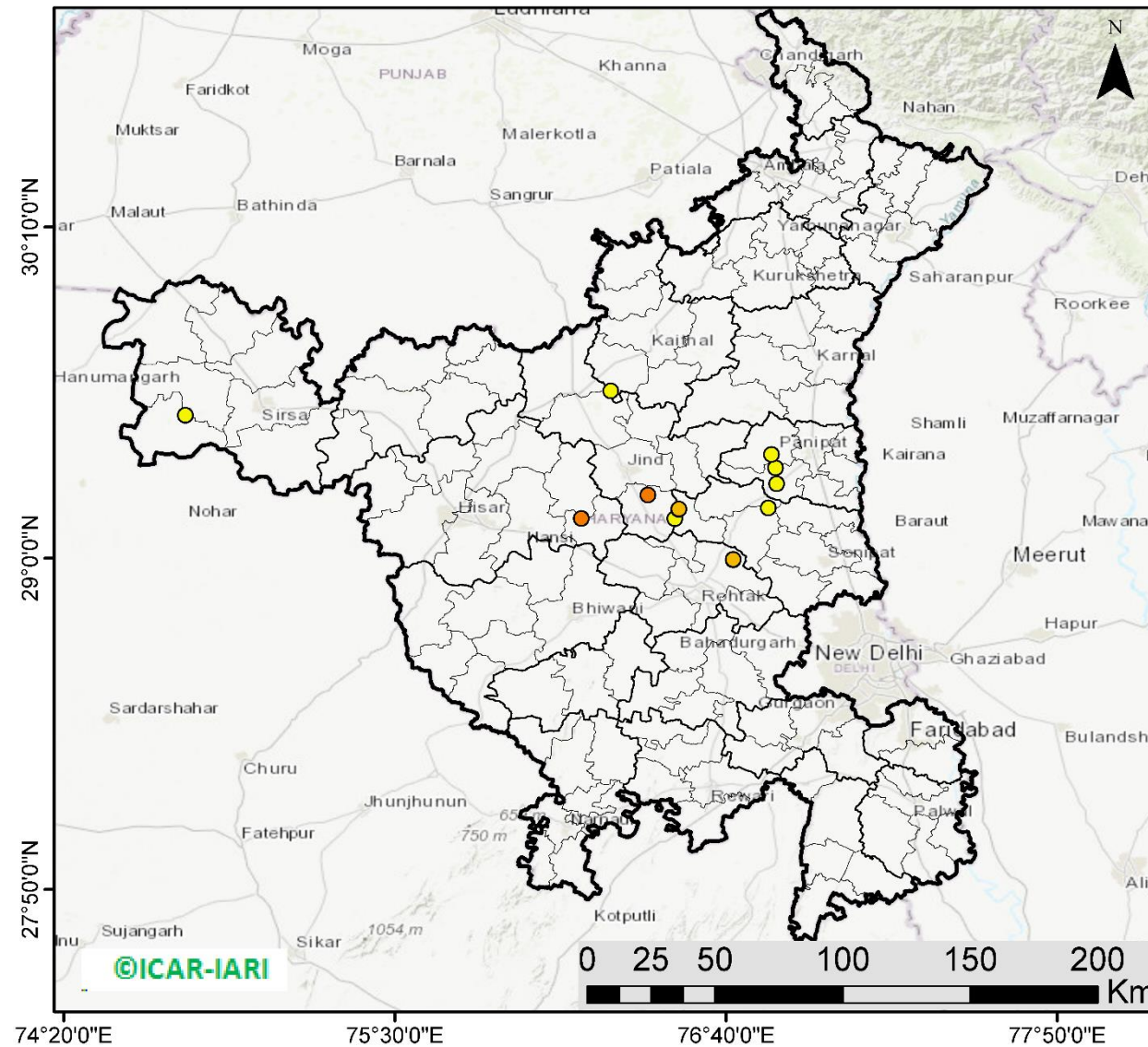
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15 Sep - 29 Nov-2021)



Haryana

RICE RESIDUE BURNING IN HARYANA



14 burning events detected in Haryana on 29th November 2021

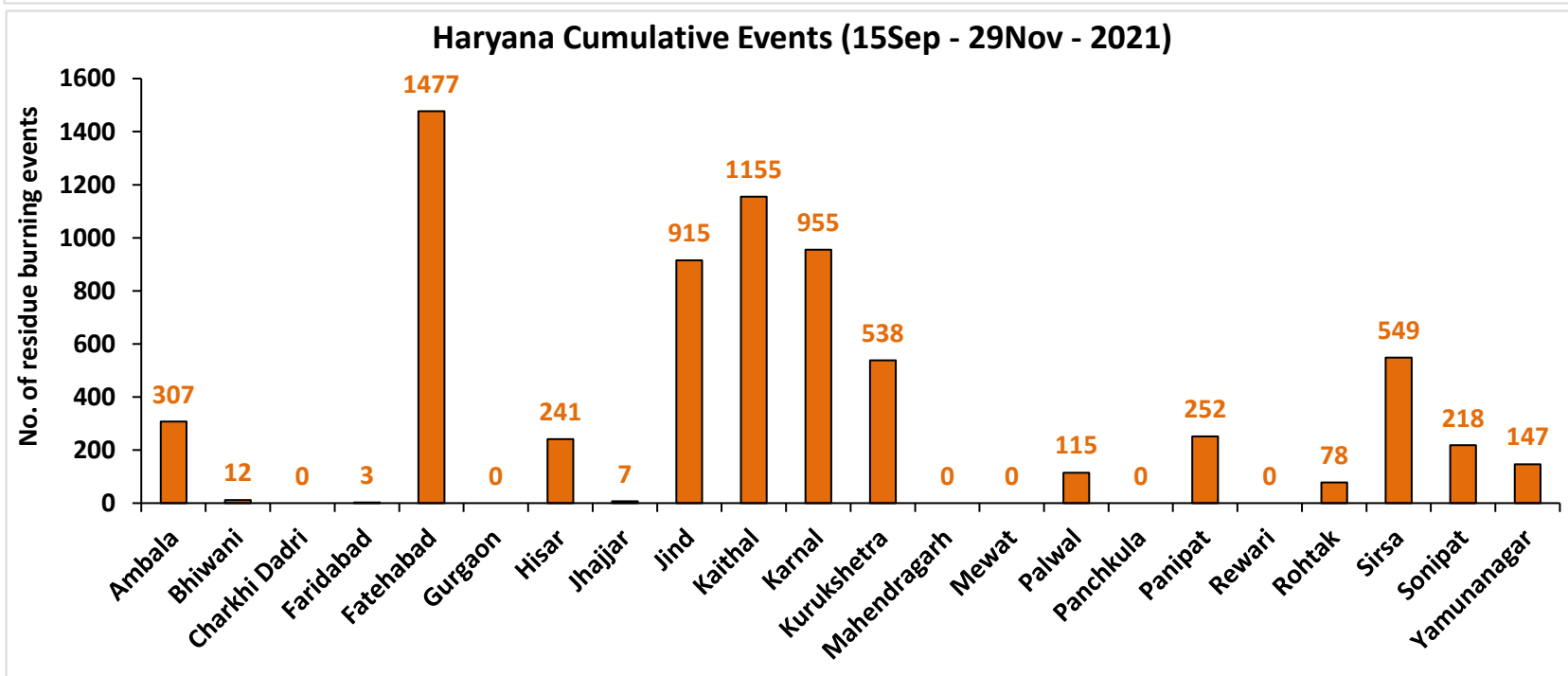
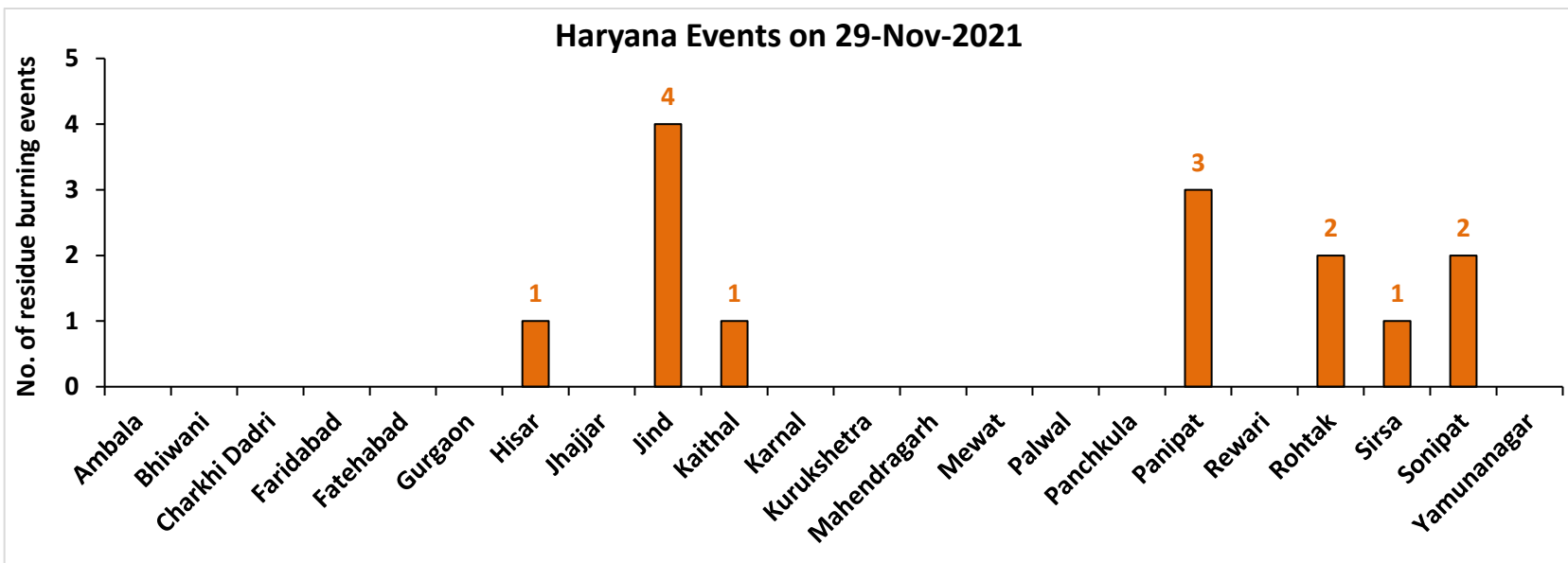
Fire Intensity (W/m²)

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



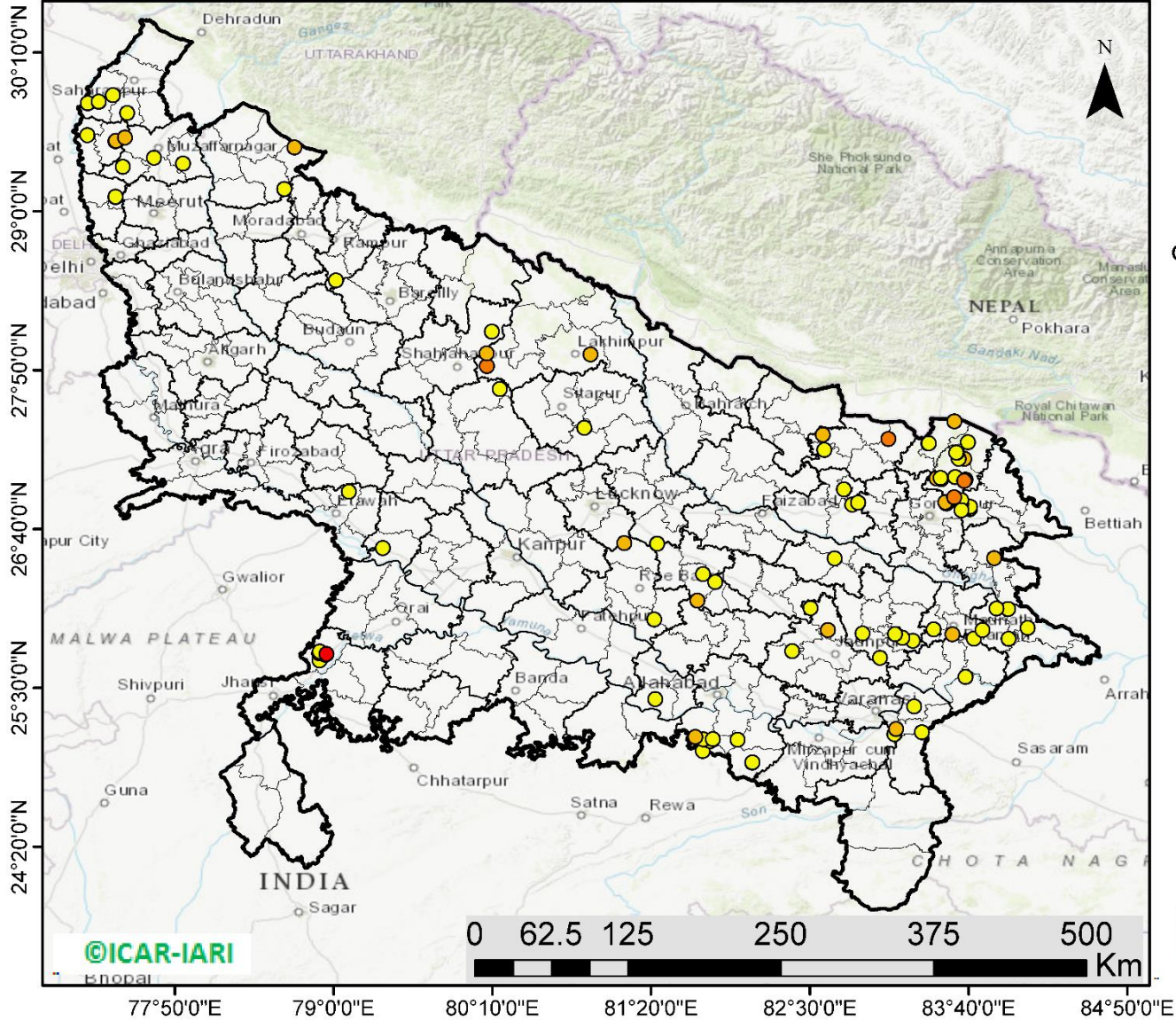
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (15 Sep - 29 Nov-2021)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



101 burning events detected in Uttar Pradesh on 29th November 2021

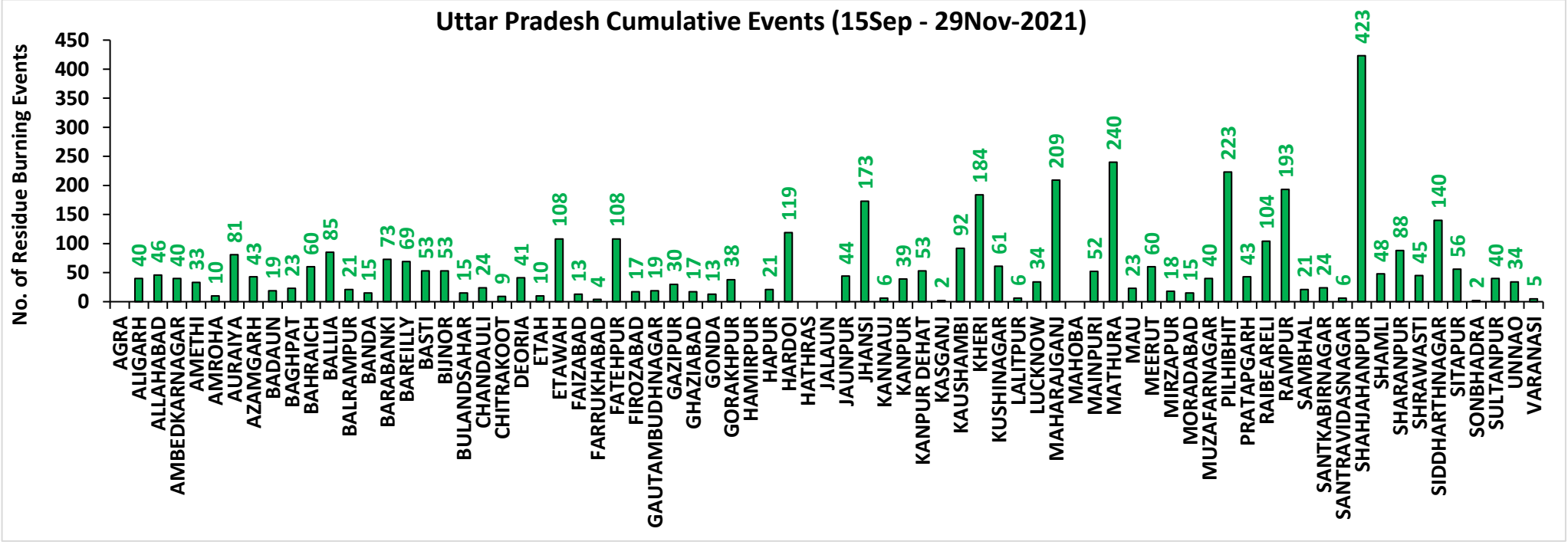
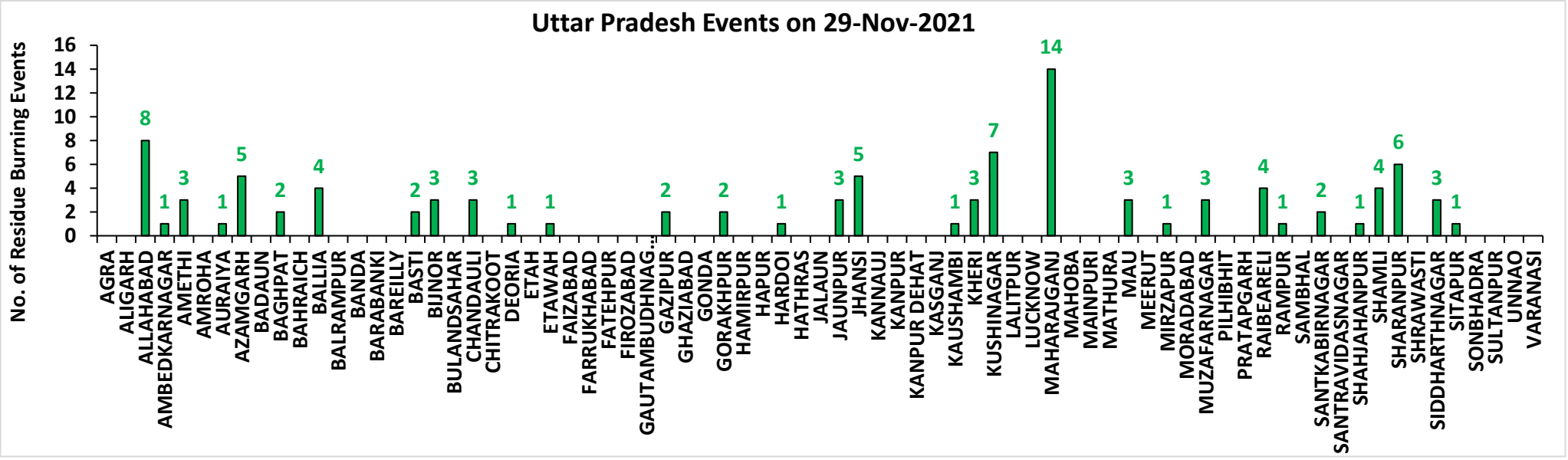
Fire Intensity (W/m2)

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



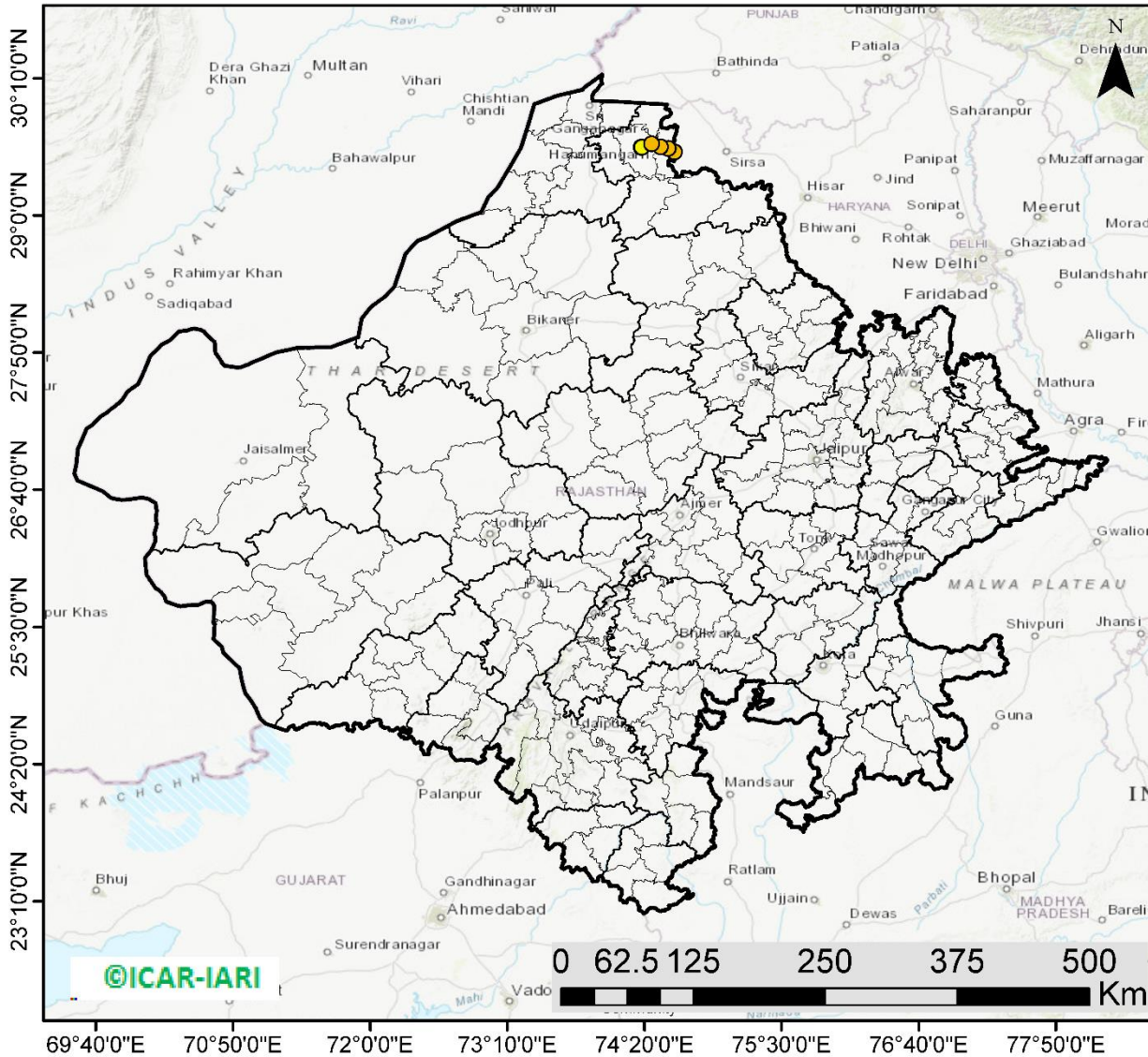
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Uttar Pradesh (15 Sep - 29 Nov-2021)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



07 burning events detected in Rajasthan on **29th November 2021**

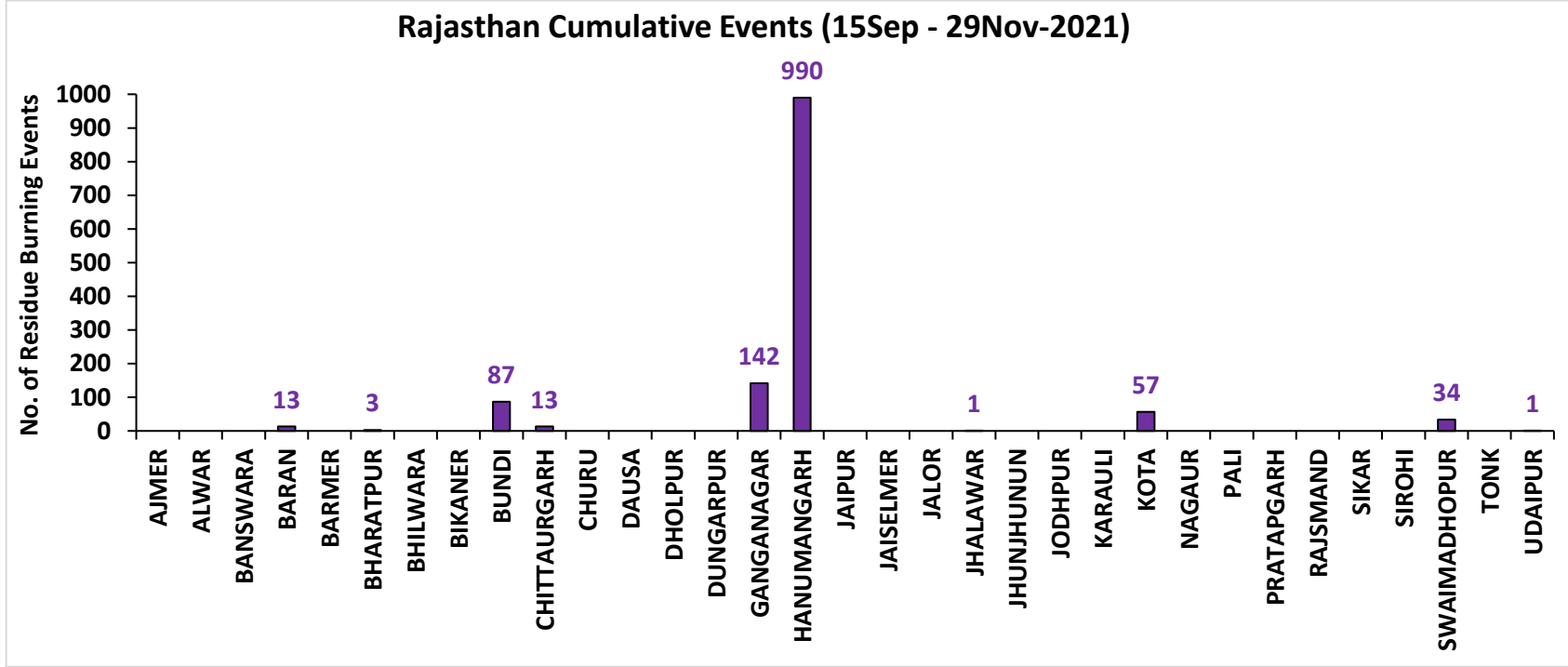
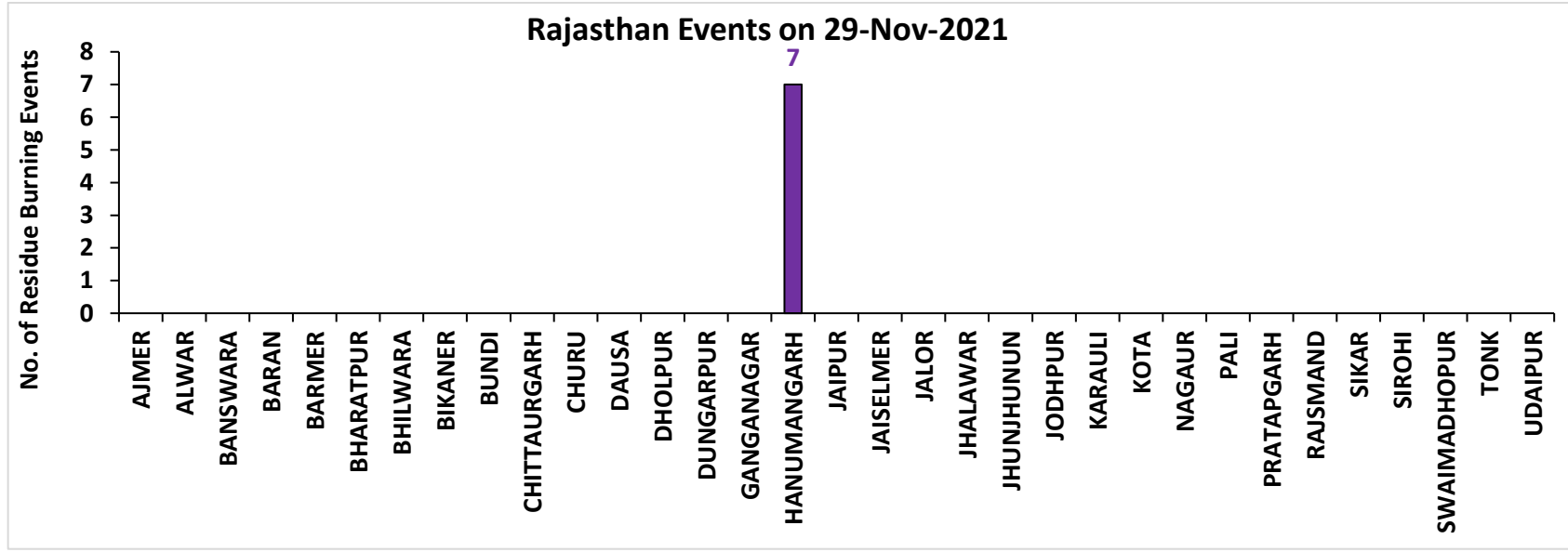
Fire Intensity (W/m²)

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



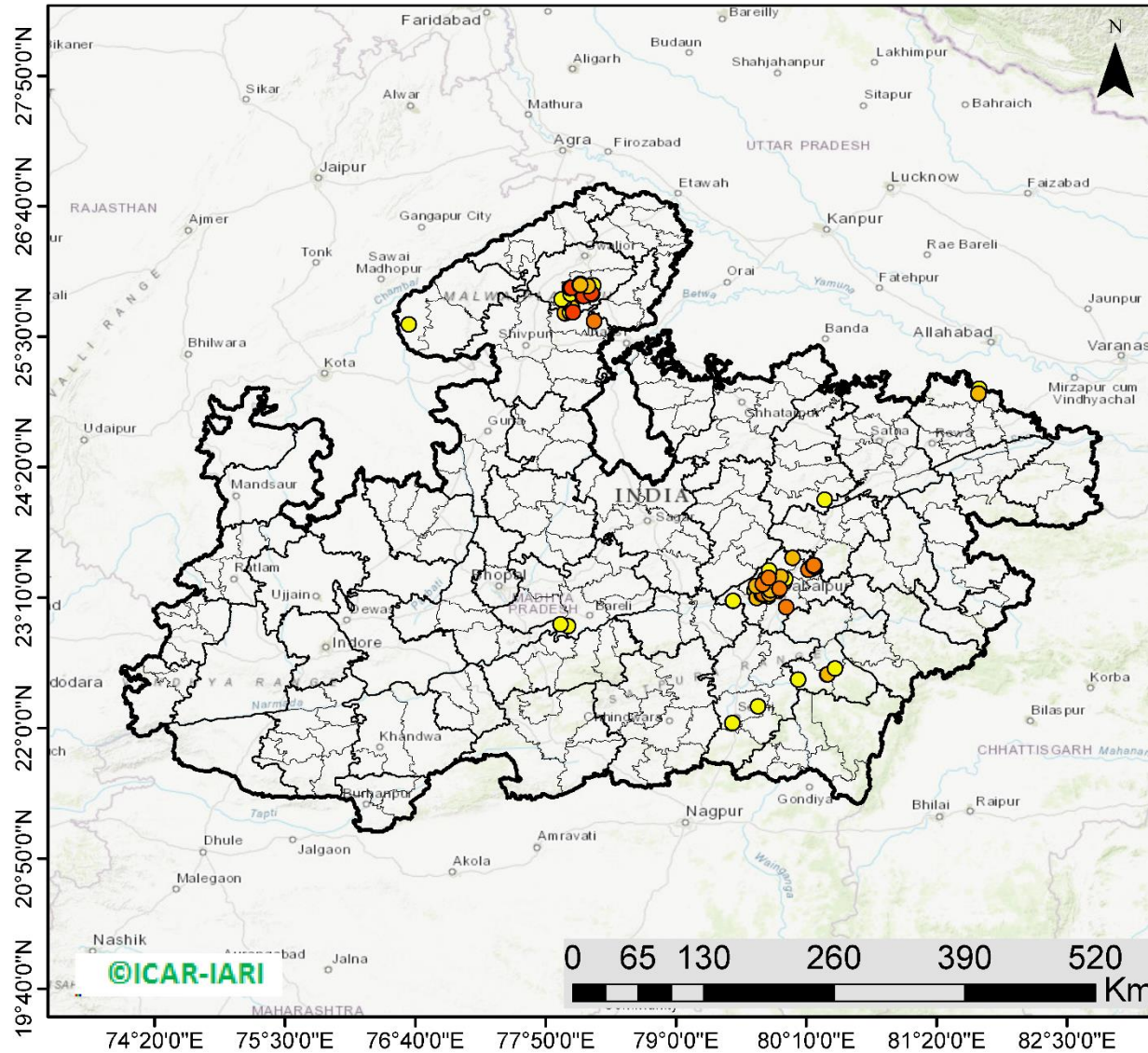
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15 Sep - 29 Nov-2021)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



95 burning events detected in MP on 29th November 2021

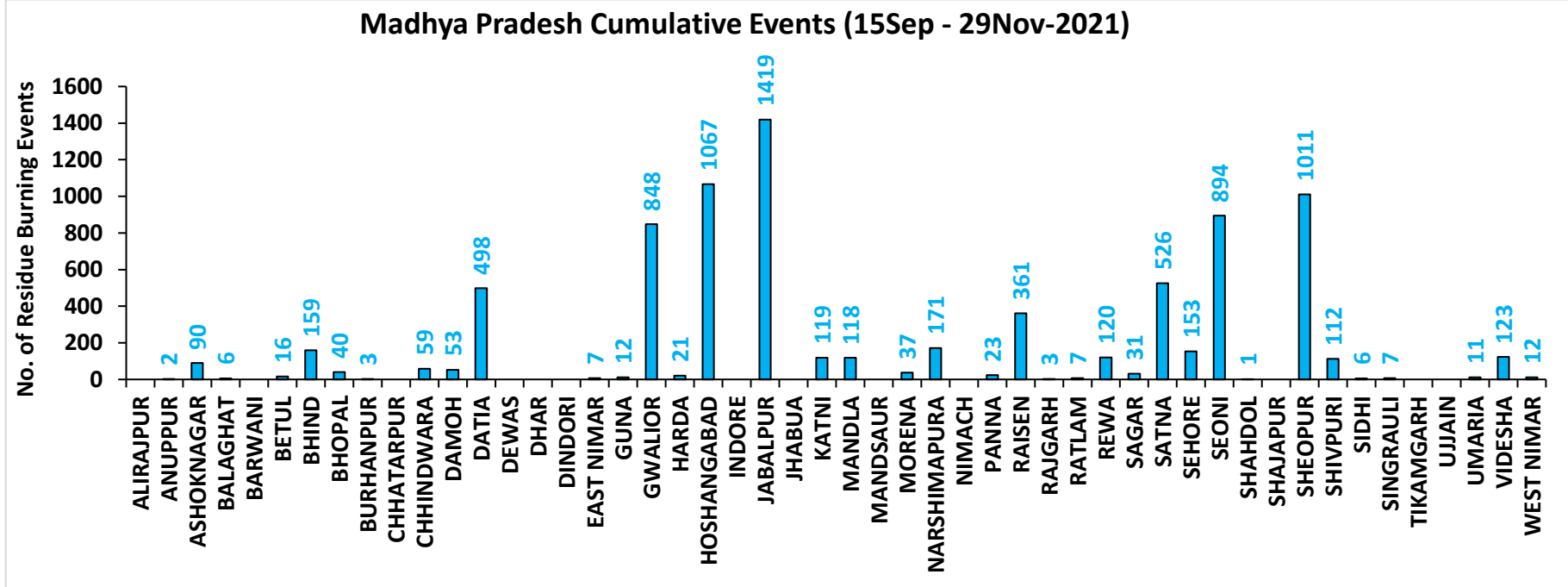
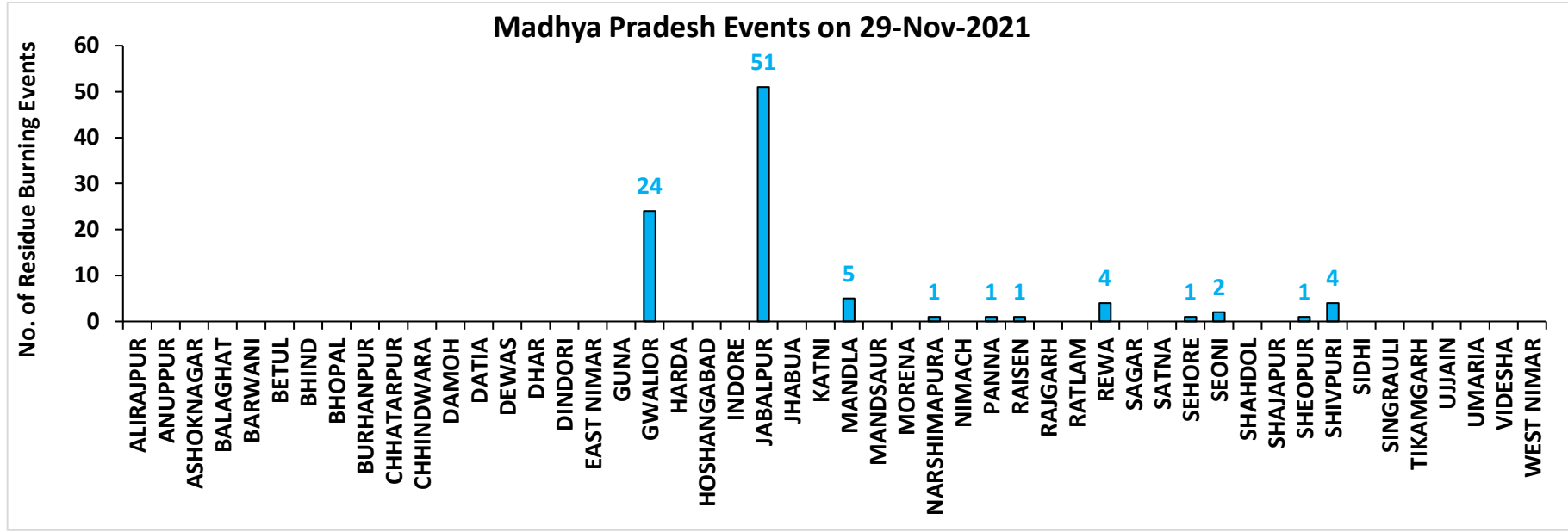
Fire Intensity (W/m²)

- 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 Madhya Pradesh (15 Sep - 29 Nov-2021)



District-wise cumulative number of residues burning events detected in 2020 and 2021
(Period: 15 September - 29 November)

(a) Punjab

District	15 Sep – 29 Nov	
	2020	2021
AMRITSAR	3066	2174
BARNALA	5342	4326
BATHINDA	5238	4481
FARIDKOT	4734	3953
FATEHGARH SAHIB	1536	1723
FAZILKA	2612	2389
FIROZPUR	8525	6289
GURDASPUR	2130	1395
HOSHIARPUR	387	331
JALANDHAR	1949	2548
KAPURTHALA	1885	1797
LUDHIANA	5062	5815
MANSA	3786	3217
MOGA	7418	6515
MUKTSAR	5071	4598
PATHANKOT	13	6
PATIALA	6433	5426
RUPNAGAR	205	307
SANGRUR	11726	9389
SAS NAGAR (MOHALI)	127	148
SBS NAGAR	131	355
TARN TARAN	5605	4117
Total	82981	71299

(b) Haryana

District	15 Sep – 29 Nov	
	2020	2021
AMBALA	346	307
BHIWANI	5	12
CHARKHI DADRI	0	0
FARIDABAD	1	3
FATEHABAD	878	1477
GURGAON	0	0
HISAR	56	241
JHAJJAR	6	7
JIND	346	915
KAITHAL	840	1155
KARNAL	591	955
KURUKSHETRA	406	538
MAHENDRAGARH	0	0
MEWAT	0	0
PALWAL	46	115
PANCHKULA	0	0
PANIPAT	53	252
REWARI	0	0
ROHTAK	50	78
SIRSA	347	549
SONIPAT	71	218
YAMUNANAGAR	143	147
Total	4185	6969

(c) Uttar Pradesh

District	15 Sep – 29 Nov							
	2020	2021						
			GAUTAMBUDHNAGAR	16	19	MUZAFARNAGAR	60	40
AGRA	7	0	GAZIPUR	31	30	PILHIBHIT	31	223
ALIGARH	113	40	GHAZIABAD	28	17	PRATAPGARH	44	43
ALLAHABAD	44	46	GONDA	12	13	RAIBARELI	46	104
AMBEDKARNAGAR	46	40	GORAKHPUR	46	38	RAMPUR	165	193
AMETHI	11	33	HAMIRPUR	6	0	SAMBHAL	21	21
AMROHA	21	10	HAPUR	42	21	SANTKABIRNAGAR	32	24
AURAIYA	103	81	HARDOI	111	119	SANTRAVIDASNAGAR	4	6
AZAMGARH	65	43	HATHRAS	0	0	SHAHJAHANPUR	154	423
BADAUN	15	19	JALAUN	50	0	SHAMLI	50	48
BAGHPAT	24	23	JAUNPUR	52	44	SHARANPUR	106	88
BAHRAICH	110	60	JHANSI	378	173	SHRAWASTI	48	45
BALLIA	161	85	KANNAUJ	33	6	SIDDHARTHANAGAR	76	140
BALRAMPUR	69	21	KANPUR	40	39	SITAPUR	79	56
BANDA	47	15	KANPUR DEHAT	98	53	SONBHADRA	0	2
BARABANKI	36	73	KASGANJ	3	2	SULTANPUR	14	40
BAREILLY	91	69	KAUSHAMBI	101	92	UNNAO	50	34
BASTI	58	53	KHERI	198	184	VARANASI	2	5
BIJNOR	53	53	KUSHINAGAR	87	61	Total	4425	4216
BULANDSAHAR	69	15	LALITPUR	3	6			
CHANDAULI	39	24	LUCKNOW	35	34			
CHITRAKOOT	19	9	MAHARAJGANJ	58	209			
DEORIA	87	41	MAHOBA	27	0			
ETAH	17	10	MAINPURI	68	52			
ETAWAH	90	108	MATHURA	161	240			
FAIZABAD	16	13	MAU	42	23			
FARRUKHABAD	7	4	MEERUT	95	60			
FATEHPUR	132	108	MIRZAPUR	12	18			
FIROZABAD	27	17	MORADABAD	33	15			

(d) Delhi

District	15 Sep – 29 Nov	
	2020	2021
CENTRAL	0	0
EAST	0	0
NEW DELHI	0	0
NORTH	3	3
NORTH EAST	0	0
NORTH WEST DELHI	3	1
SHAHADRA	0	0
SOUTH	1	0
SOUTH EAST	0	0
SOUTH WEST DELHI	0	0
WEST DELHI	2	0
Total	9	4

(e) Rajasthan

District	15 Sep – 29 Nov	
	2020	2021
AJMER	3	0
ALWAR	10	0
BANSWARA	0	0
BARAN	167	13
BARMER	4	0
BHARATPUR	2	3
BHILWARA	11	0
BIKANER	1	0
BUNDI	128	87
CHITTAURGARH	5	13
CHURU	0	0
DAUSA	1	0
DHOLPUR	0	0
DUNGARPUR	0	0
GANGANAGAR	225	142
HANUMANGARH	948	990
JAIPUR	4	0
JAISELMER	5	0
JALOR	2	0
JHALAWAR	10	1
JHUNJHUNUN	1	0
JODHPUR	5	0
KARALI	1	0
KOTA	116	57
NAGPUR	4	0
PALI	12	0
PRATAPGARH	8	0
RAJSMAND	1	0
SIKAR	1	0
SIROHI	3	0
SWAIMADHOPUR	65	34
TONK	5	0
UDAIPUR	2	1
Total	1750	1341

(f) Madhya Pradesh

District	15 Sep – 29 Nov				
	2020	2021			
			PANNA	50	23
ALIRAJPUR	0	0	RAISEN	615	361
ANUPPUR	3	2	RAJGARH	12	3
ASHOKNAGAR	156	90	RATLAM	10	7
BALAGHAT	9	6	REWA	138	120
BARWANI	6	0	SAGAR	28	31
BETUL	37	16	SATNA	576	526
BHIND	268	159	SEHORE	164	153
BHOPAL	52	40	SEONI	1233	894
BURHANPUR	16	3	SHAHDOL	3	1
CHHATARPUR	9	0	SHAJAPUR	22	0
CHHINDWARA	136	59	SHEOPUR	1861	1011
DAMOH	75	53	SHIVPURI	393	112
DATIA	1188	498	SIDHI	4	6
DEWAS	8	0	SINGRAULI	0	7
DHAR	47	0	TIKAMGARH	4	0
DINDORI	0	0	UJJAIN	18	0
EAST NIMAR	23	7	UMARIA	9	11
GUNA	70	12	VIDESHA	145	123
GWALIOR	2057	848	WEST NIMAR	68	12
HARDA	14	21	Total	14107	8146
HOSHANGABAD	1060	1067			
INDORE	4	0			
JABALPUR	2656	1419			
JHABUA	0	0			
KATNI	326	119			
MANDLA	152	118			
MANDSAUR	14	0			
MORENA	62	37			
NARSHIMAPURA	304	171			
NIMACH	2	0			

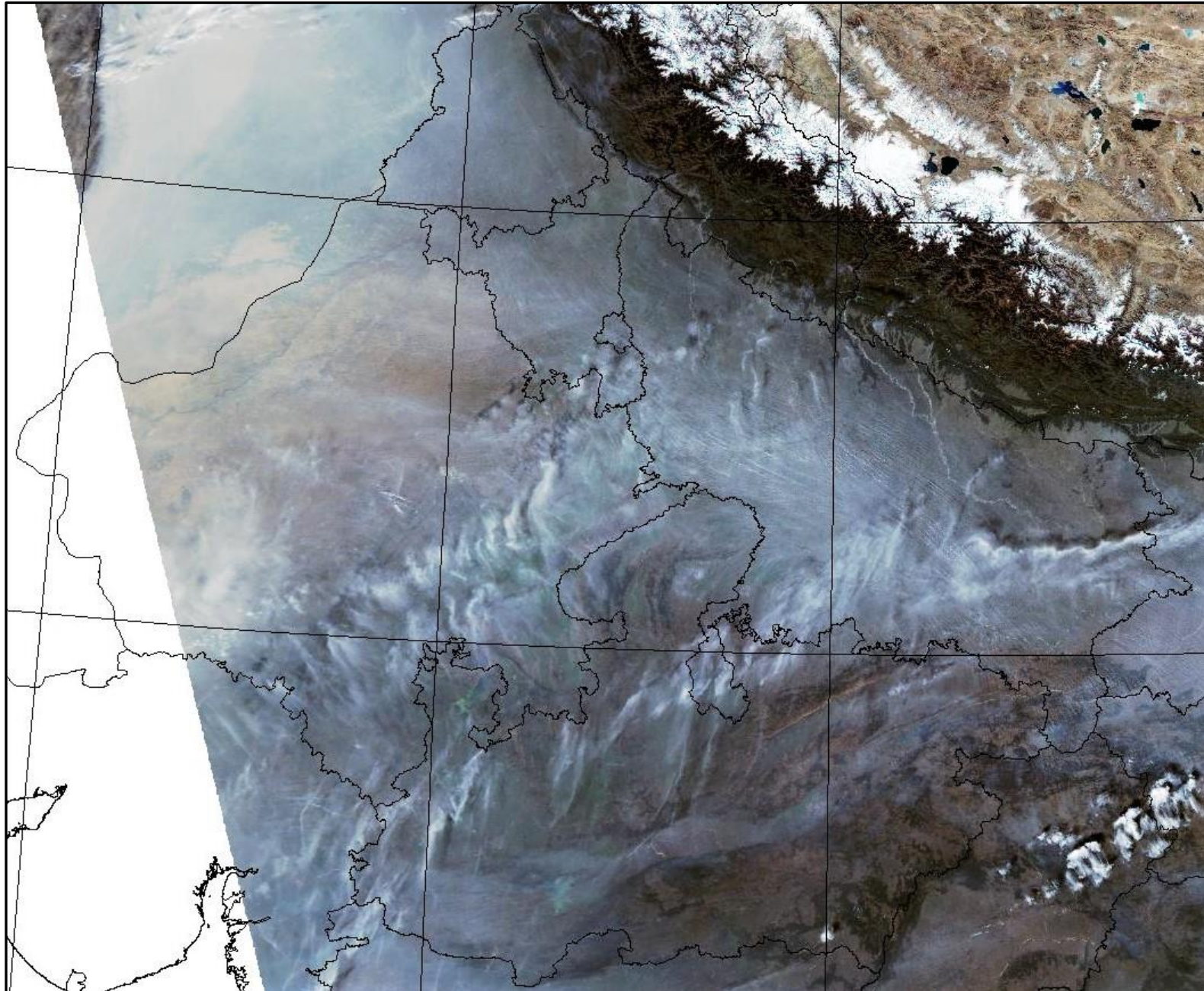
State-wise and date-wise number of paddy residue burning events detected in 2020 and 2021
(Period: 15 September – 29 November)

Number of Paddy Residue Burning Events Detected												
	Punjab		Haryana		Uttar Pradesh		Delhi		Rajasthan		Madhya Pradesh	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
15-Sep	5	0	2	0	1	0	0	0	1	0	2	0
16-Sep	0	2	1	0	0	0	0	0	0	0	0	0
17-Sep	5	0	3	0	0	0	0	0	0	0	0	0
18-Sep	17	9	0	0	0	1	0	0	0	0	0	0
19-Sep	30	5	2	0	0	1	0	0	0	0	0	0
20-Sep	67	8	6	0	2	0	0	0	0	0	0	0
21-Sep	54	0	2	0	1	0	0	0	1	0	2	0
22-Sep	34	0	1	0	1	0	0	0	0	0	0	0
23-Sep	49	0	0	0	1	0	0	0	1	0	0	0
24-Sep	78	5	0	0	1	1	0	0	0	0	0	0
25-Sep	184	11	11	0	5	0	0	0	1	0	0	0
26-Sep	190	19	5	0	8	0	0	0	1	0	2	0
27-Sep	78	37	8	0	4	1	0	0	0	0	1	0
28-Sep	55	28	6	1	1	6	0	0	0	0	1	1
29-Sep	63	64	9	4	6	10	0	0	3	0	0	4
30-Sep	116	27	22	2	13	13	1	0	1	0	5	0
01-Oct	165	13	15	4	7	13	0	0	4	1	13	0
02-Oct	141	0	30	2	12	0	1	0	7	0	12	0
03-Oct	110	9	8	6	4	3	0	0	9	0	5	1
04-Oct	162	23	29	2	8	0	0	0	15	0	4	2
05-Oct	161	18	17	3	14	2	0	0	14	0	13	1
06-Oct	171	42	30	0	12	1	1	0	16	0	37	1
07-Oct	197	72	32	11	41	13	0	0	14	1	31	1
08-Oct	95	108	29	27	25	11	0	0	11	0	17	2
09-Oct	121	114	20	39	15	20	0	0	12	0	15	4
10-Oct	232	150	33	95	9	54	0	0	14	1	18	10
11-Oct	377	64	90	51	23	28	0	0	21	7	32	2

12-Oct	388	97	69	51	46	23	0	0	24	1	44	1
13-Oct	266	132	47	91	36	42	0	0	7	5	21	2
14-Oct	605	229	69	98	9	68	0	0	16	1	15	11
15-Oct	449	660	106	363	15	149	0	0	9	8	8	27
16-Oct	654	429	80	176	21	121	1	0	12	2	23	13
17-Oct	1172	14	143	0	38	39	0	0	26	0	63	1
18-Oct	938	57	166	1	76	0	0	0	37	2	88	0
19-Oct	1080	496	72	55	43	5	0	0	27	5	49	1
20-Oct	890	788	62	155	31	1	0	0	26	4	9	21
21-Oct	1392	597	101	131	25	5	2	0	32	2	112	30
22-Oct	1665	1111	128	140	32	3	0	0	29	5	183	29
23-Oct	1438	620	106	218	84	8	1	0	23	7	204	32
24-Oct	911	0	57	38	63	11	0	0	20	4	150	34
25-Oct	1416	76	155	71	50	18	1	0	18	2	144	60
26-Oct	2126	329	77	175	33	41	0	0	34	3	178	55
27-Oct	2563	279	96	93	40	58	0	0	42	1	294	62
28-Oct	3232	906	139	149	87	35	0	0	45	4	537	110
29-Oct	1624	1353	52	161	139	32	0	0	29	23	349	97
30-Oct	3946	1373	100	148	50	53	0	0	17	20	428	168
31-Oct	3531	2895	108	353	49	170	0	0	37	15	455	299
01-Nov	3835	1796	151	124	74	157	0	0	51	5	709	198
02-Nov	4098	3001	111	203	82	87	0	0	55	19	820	214
03-Nov	2818	2512	93	197	197	66	1	0	34	20	771	148
04-Nov	4584	3032	72	228	152	123	0	0	46	19	618	123
05-Nov	4529	5327	66	331	52	70	0	0	46	45	474	320
06-Nov	5382	3942	151	219	43	208	0	0	40	32	678	248
07-Nov	5491	5199	150	182	86	46	0	0	57	38	848	199
08-Nov	3674	4397	115	138	169	21	0	0	33	44	981	170
09-Nov	1718	5079	21	217	115	51	0	1	34	48	495	330
10-Nov	3127	4008	80	184	101	77	0	0	48	40	346	380
11-Nov	2822	4156	93	126	71	151	0	1	75	55	418	506
12-Nov	1989	3403	83	127	108	120	0	0	31	40	422	185
13-Nov	2441	3742	105	210	172	95	0	2	54	78	670	171
14-Nov	307	2541	35	195	258	49	0	0	16	88	294	346
15-Nov	32	1761	31	129	29	67	0	0	6	51	35	353
16-Nov	8	1757	0	269	15	138	0	0	16	81	145	660

17-Nov	248	523	9	101	38	177	0	0	60	38	191	261
18-Nov	670	680	60	111	62	14	0	0	75	77	352	126
19-Nov	454	448	37	132	129	11	0	0	27	73	124	16
20-Nov	677	283	77	127	134	20	0	0	59	53	106	6
21-Nov	457	168	65	178	135	106	0	0	57	72	159	95
22-Nov	46	66	15	91	120	276	0	0	9	21	165	188
23-Nov	43	91	52	59	106	186	0	0	66	61	150	262
24-Nov	9	34	20	37	167	87	0	0	13	26	258	224
25-Nov	0	31	1	41	127	80	0	0	2	30	106	343
26-Nov	16	21	0	48	83	74	0	0	0	11	48	318
27-Nov	124	19	26	28	54	257	0	0	16	33	39	416
28-Nov	84	5	57	9	118	241	0	0	24	12	38	163
29-Nov	55	8	65	14	247	101	0	0	44	7	83	95
Total	82981	71299	4185	6969	4425	4216	9	4	1750	1341	14107	8146

[AQUA \(MODIS\) Satellite image \(TCC\) of North and Central India Acquired on 29-Nov-2021 at 13:11:00 IST by IARI Ground Station](#)



Details of residue burning events in Punjab on 29-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	FATEHGARH SAHIB	KHAMANON	S-NPP	30.81600	76.29450	11/29/2021	12:40:21	D	4.40
2	GURDASPUR	DHARIWAL	S-NPP	31.88960	75.33080	11/29/2021	14:19:55	D	5.10
3	GURDASPUR	KAHNUWAN	S-NPP	31.88990	75.33630	11/29/2021	14:19:55	D	5.10
4	JALANDHAR	ADAMPUR	S-NPP	31.40480	75.70620	11/29/2021	14:19:55	D	2.90
5	LUDHIANA	DEHLON	S-NPP	30.78330	75.83700	11/29/2021	14:19:55	D	3.70
6	MUKTSAR	MALOUT	S-NPP	30.32640	74.43420	11/29/2021	14:19:55	D	2.70
7	MUKTSAR	MUKTSAR	S-NPP	30.58700	74.41110	11/29/2021	14:19:55	D	3.00
8	SAS NAGAR (MOHALI)	MAJRI	S-NPP	30.83250	76.61890	11/29/2021	12:40:21	D	2.90

Details of residue burning events in Haryana on 29-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	HISAR	NARNAUND	AQUA	29.13900	76.15700	11/29/2021	13:14:14	D	14.10
2	JIND	JULANA	S-NPP	29.13810	76.48650	11/29/2021	12:40:21	D	2.40
3	JIND	JULANA	S-NPP	29.17160	76.49980	11/29/2021	12:40:21	D	5.50
4	JIND	JULANA	S-NPP	29.17260	76.50030	11/29/2021	12:40:21	D	5.10
5	JIND	JULANA	AQUA	29.22200	76.39200	11/29/2021	13:14:14	D	14.60
6	KAITHAL	KALAYAT	S-NPP	29.58870	76.26130	11/29/2021	12:40:21	D	2.80
7	PANIPAT	ISRANA	S-NPP	29.26170	76.84480	11/29/2021	12:40:21	D	2.20
8	PANIPAT	MADLAUDA	S-NPP	29.31720	76.84140	11/29/2021	12:40:21	D	3.00
9	PANIPAT	MADLAUDA	S-NPP	29.36500	76.82680	11/29/2021	12:40:21	D	1.70
10	ROHTAK	ROHTAK	S-NPP	28.99320	76.69220	11/29/2021	12:40:21	D	3.60
11	ROHTAK	ROHTAK	S-NPP	28.99470	76.69220	11/29/2021	12:40:21	D	5.10
12	SIRSA	ELLENABAD	S-NPP	29.50260	74.76230	11/29/2021	14:19:55	D	3.50
13	SONIPAT	GOHANA	S-NPP	29.17620	76.81630	11/29/2021	14:19:55	D	4.80
14	SONIPAT	RAI	S-NPP	28.88550	77.10920	11/29/2021	01:30:21	N	0.30

Details of residue burning events in Uttar Pradesh on 29-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALLAHABAD	BARA	S-NPP	25.03630	81.71320	11/29/2021	12:40:21	D	3.80
2	ALLAHABAD	BARA	S-NPP	25.10940	81.76960	11/29/2021	01:30:21	N	2.20
3	ALLAHABAD	BARA	S-NPP	25.12210	81.71600	11/29/2021	12:40:21	D	3.30
4	ALLAHABAD	BARA	S-NPP	25.12270	81.78720	11/29/2021	01:30:21	N	1.70
5	ALLAHABAD	BARA	S-NPP	25.13860	81.65770	11/29/2021	12:40:21	D	5.70
6	ALLAHABAD	KORAWN	S-NPP	24.95090	82.07670	11/29/2021	01:30:21	N	0.80
7	ALLAHABAD	KORAWN	S-NPP	24.95170	82.07830	11/29/2021	01:30:21	N	0.90
8	ALLAHABAD	MEZA	S-NPP	25.11780	81.97000	11/29/2021	12:40:21	D	2.10
9	AMBEDKARNAGAR	AKBARPUR	AQUA	26.45000	82.68200	11/29/2021	13:14:14	D	3.60
10	AMETHI	GAURIGANJ	S-NPP	26.27650	81.80570	11/29/2021	12:40:21	D	2.70
11	AMETHI	GAURIGANJ	S-NPP	26.33510	81.71580	11/29/2021	12:40:21	D	2.60
12	AMETHI	GAURIGANJ	AQUA	26.14000	81.67400	11/29/2021	13:14:14	D	5.10
13	AURAIYA	AURAIYA	S-NPP	26.52620	79.36150	11/29/2021	12:40:21	D	2.20
14	AZAMGARH	LALGANJ	S-NPP	25.72110	83.01500	11/29/2021	01:30:21	N	0.40
15	AZAMGARH	LALGANJ	AQUA	25.89900	82.88700	11/29/2021	13:14:14	D	5.00
16	AZAMGARH	MEHNAGAR	S-NPP	25.84590	83.25830	11/29/2021	12:40:21	D	3.10
17	AZAMGARH	MEHNAGAR	S-NPP	25.86680	83.18080	11/29/2021	12:40:21	D	2.60
18	AZAMGARH	MEHNAGAR	S-NPP	25.89480	83.12660	11/29/2021	12:40:21	D	2.70
19	BAGHPAT	BARAUT	S-NPP	29.10450	77.39840	11/29/2021	14:19:55	D	4.30
20	BAGHPAT	BARAUT	S-NPP	29.10640	77.39710	11/29/2021	14:19:55	D	3.50
21	BALLIA	BELTHARA ROAD	S-NPP	26.08220	83.87270	11/29/2021	12:40:21	D	2.00
22	BALLIA	RASRA	AQUA	25.86000	83.96000	11/29/2021	13:14:14	D	3.60
23	BALLIA	SIKANDARPUR	S-NPP	25.94050	84.10110	11/29/2021	12:40:21	D	3.30
24	BALLIA	SIKANDARPUR	S-NPP	26.07910	83.95730	11/29/2021	12:40:21	D	3.50
25	BASTI	BASTI	S-NPP	26.84630	82.81200	11/29/2021	12:40:21	D	2.20
26	BASTI	BHANPUR	AQUA	26.95800	82.75100	11/29/2021	13:14:14	D	4.10
27	BIJNOR	AFZALGARH	AQUA	29.46900	78.71300	11/29/2021	13:14:14	D	7.20
28	BIJNOR	DHAMPUR	S-NPP	29.16160	78.63820	11/29/2021	14:19:55	D	4.10
29	BIJNOR	DHAMPUR	S-NPP	29.16350	78.63820	11/29/2021	14:19:55	D	4.00

30	CHANDAULI	CHANDAULI	S-NPP	25.17370	83.32320	11/29/2021	12:40:21	D	2.80
31	CHANDAULI	CHANDAULI	AQUA	25.19800	83.13400	11/29/2021	13:14:14	D	6.70
32	CHANDAULI	SHAKALDIHA	S-NPP	25.36380	83.26650	11/29/2021	12:40:21	D	4.20
33	DEORIA	DEORIA	AQUA	26.45200	83.85500	11/29/2021	13:14:14	D	5.80
34	ETAWAH	ETAWAH	S-NPP	26.94050	79.11310	11/29/2021	12:40:21	D	2.20
35	GAZIPUR	MUHAMMADBAD	S-NPP	25.86060	83.70580	11/29/2021	12:40:21	D	1.90
36	GAZIPUR	ZAMANIA	S-NPP	25.57970	83.64470	11/29/2021	12:40:21	D	1.80
37	GORAKHPUR	GORAKHPUR	S-NPP	26.85380	83.50420	11/29/2021	12:40:21	D	2.50
38	GORAKHPUR	GORAKHPUR	AQUA	26.86300	83.49600	11/29/2021	13:14:14	D	5.60
39	HARDOI	SHAHABAD	S-NPP	27.69460	80.22120	11/29/2021	12:40:21	D	3.20
40	JAUNPUR	MACHHALI SAHAR	S-NPP	25.76930	82.37090	11/29/2021	01:30:21	N	0.50
41	JAUNPUR	SHHGANJ	S-NPP	25.92450	82.63270	11/29/2021	12:40:21	D	9.10
42	JAUNPUR	SHHGANJ	S-NPP	26.08530	82.50560	11/29/2021	01:30:21	N	0.50
43	JHANSI	MOTH	S-NPP	25.70130	78.89720	11/29/2021	12:40:21	D	3.60
44	JHANSI	MOTH	S-NPP	25.74230	78.94040	11/29/2021	12:40:21	D	3.20
45	JHANSI	MOTH	S-NPP	25.75410	78.89390	11/29/2021	12:40:21	D	2.30
46	JHANSI	MOTH	S-NPP	25.76640	78.89840	11/29/2021	12:40:21	D	2.00
47	JHANSI	MOTH	AQUA	25.74900	78.94800	11/29/2021	13:14:14	D	31.20
48	KAUSHAMBI	MANJHANPUR	AQUA	25.41700	81.36400	11/29/2021	13:14:14	D	4.70
49	KHERI	LAKHIMPUR	AQUA	27.94800	80.88900	11/29/2021	13:14:14	D	6.00
50	KHERI	MOHMADI	AQUA	27.86400	80.12700	11/29/2021	13:14:14	D	10.90
51	KHERI	MOHMADI	AQUA	27.95600	80.12600	11/29/2021	13:14:14	D	7.10
52	KUSHINAGAR	HATA	S-NPP	26.81260	83.67530	11/29/2021	12:40:21	D	4.60
53	KUSHINAGAR	HATA	S-NPP	26.81480	83.67720	11/29/2021	12:40:21	D	5.20
54	KUSHINAGAR	HATA	S-NPP	26.82940	83.67730	11/29/2021	12:40:21	D	2.10
55	KUSHINAGAR	HATA	S-NPP	26.85120	83.61400	11/29/2021	01:30:21	N	0.60
56	KUSHINAGAR	HATA	S-NPP	26.87850	83.61260	11/29/2021	12:40:21	D	3.60
57	KUSHINAGAR	HATA	AQUA	26.80500	83.61500	11/29/2021	13:14:14	D	5.00
58	KUSHINAGAR	HATA	AQUA	26.89900	83.56100	11/29/2021	13:14:14	D	11.10
59	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.02880	83.64420	11/29/2021	12:40:21	D	4.70
60	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.03150	83.46660	11/29/2021	12:40:21	D	8.50
61	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.04710	83.56910	11/29/2021	12:40:21	D	4.60
62	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.18140	83.63510	11/29/2021	12:40:21	D	6.10

63	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.18170	83.59400	11/29/2021	12:40:21	D	2.20
64	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.22660	83.58090	11/29/2021	12:40:21	D	6.00
65	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.22760	83.57720	11/29/2021	12:40:21	D	4.50
66	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.01900	83.63600	11/29/2021	13:14:14	D	12.10
67	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.03800	83.43200	11/29/2021	13:14:14	D	5.20
68	MAHARAJGANJ	MAHARAJGANJ	AQUA	27.04200	83.46200	11/29/2021	13:14:14	D	4.40
69	MAHARAJGANJ	NAUTANWA	S-NPP	27.29580	83.37500	11/29/2021	12:40:21	D	3.90
70	MAHARAJGANJ	NAUTANWA	S-NPP	27.45770	83.56230	11/29/2021	12:40:21	D	7.90
71	MAHARAJGANJ	NICHLAUL	S-NPP	27.30340	83.66200	11/29/2021	12:40:21	D	1.60
72	MAHARAJGANJ	PHARENDA	S-NPP	27.29500	83.37110	11/29/2021	12:40:21	D	1.60
73	MAU	MAU	S-NPP	25.89300	83.54810	11/29/2021	12:40:21	D	5.10
74	MAU	MAU	AQUA	25.92500	83.77000	11/29/2021	13:14:14	D	4.20
75	MAU	MUHAMMADABAD	S-NPP	25.92910	83.41160	11/29/2021	12:40:21	D	1.70
76	MIRZAPUR	CHUNAR	AQUA	25.16000	83.12100	11/29/2021	13:14:14	D	4.50
77	MUZAFARNAGAR	BUDHANA	S-NPP	29.32730	77.45150	11/29/2021	12:40:21	D	3.50
78	MUZAFARNAGAR	JANSATH	S-NPP	29.35080	77.89330	11/29/2021	12:40:21	D	1.80
79	MUZAFARNAGAR	MUZAFFARNAGAR	S-NPP	29.39380	77.68090	11/29/2021	12:40:21	D	2.20
80	RAIBEARELI	MAHARAJGANJ	AQUA	26.56200	81.13700	11/29/2021	13:14:14	D	7.20
81	RAIBEARELI	SALON	S-NPP	26.00220	81.35700	11/29/2021	12:40:21	D	3.20
82	RAIBEARELI	TILOI	S-NPP	26.55820	81.37700	11/29/2021	12:40:21	D	4.80
83	RAIBEARELI	TILOI	S-NPP	26.55870	81.37860	11/29/2021	12:40:21	D	3.00
84	RAMPUR	SHAHBAD	S-NPP	28.49260	79.01830	11/29/2021	12:40:21	D	1.70
85	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.85930	82.85680	11/29/2021	12:40:21	D	3.60
86	SANTKABIRNAGAR	KHALILABAD	S-NPP	26.86000	82.85380	11/29/2021	12:40:21	D	3.00
87	SHAHJAHANPUR	PUWANYA	S-NPP	28.11590	80.16410	11/29/2021	12:40:21	D	3.60
88	SHAMLI	KAIRANA	S-NPP	29.55830	77.19070	11/29/2021	14:19:55	D	3.50
89	SHAMLI	SHAMLI	S-NPP	29.51490	77.39740	11/29/2021	12:40:21	D	4.30
90	SHAMLI	SHAMLI	S-NPP	29.51790	77.40050	11/29/2021	12:40:21	D	7.00
91	SHAMLI	SHAMLI	AQUA	29.54100	77.46700	11/29/2021	13:14:14	D	9.30
92	SHARANPUR	NAKUR	S-NPP	29.79220	77.19420	11/29/2021	14:19:55	D	4.30
93	SHARANPUR	NAKUR	S-NPP	29.79430	77.19460	11/29/2021	14:19:55	D	4.20
94	SHARANPUR	NAKUR	S-NPP	29.80430	77.27480	11/29/2021	12:40:21	D	1.20
95	SHARANPUR	NAKUR	S-NPP	29.80520	77.27400	11/29/2021	12:40:21	D	1.30

96	SHARANPUR	NAKUR	S-NPP	29.85360	77.37930	11/29/2021	12:40:21	D	2.70
97	SHARANPUR	RAMPUR MANIHARRAN	S-NPP	29.72110	77.48330	11/29/2021	12:40:21	D	1.80
98	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	27.24650	82.60700	11/29/2021	12:40:21	D	2.10
99	SIDDHARTHANAGAR	ITWA	AQUA	27.35900	82.59500	11/29/2021	13:14:14	D	5.40
100	SIDDHARTHANAGAR	NAUGARH	AQUA	27.32800	83.07800	11/29/2021	13:14:14	D	12.70
101	SITAPUR	SIDHAULI	S-NPP	27.41040	80.84240	11/29/2021	12:40:21	D	3.00

Details of residue burning events in Rajasthan on 29-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	HANUMANGARH	HANUMANGARH	S-NPP	29.57790	74.30680	11/29/2021	14:19:55	D	3.90
2	HANUMANGARH	HANUMANGARH	S-NPP	29.57820	74.31130	11/29/2021	14:19:55	D	3.90
3	HANUMANGARH	HANUMANGARH	S-NPP	29.60690	74.39520	11/29/2021	14:19:55	D	8.10
4	HANUMANGARH	TIBI	S-NPP	29.53830	74.58900	11/29/2021	14:19:55	D	5.10
5	HANUMANGARH	TIBI	S-NPP	29.56960	74.53650	11/29/2021	14:19:55	D	5.10
6	HANUMANGARH	TIBI	S-NPP	29.56970	74.53530	11/29/2021	14:19:55	D	6.40
7	HANUMANGARH	TIBI	S-NPP	29.58290	74.47050	11/29/2021	14:19:55	D	5.80

Details of residue burning events in Madhya Pradesh on 29-Nov-2021

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	GWALIOR	BHITARWAR	S-NPP	25.71820	78.05240	11/29/2021	12:40:21	D	2.50
2	GWALIOR	BHITARWAR	S-NPP	25.75740	78.06780	11/29/2021	12:40:21	D	5.80
3	GWALIOR	BHITARWAR	S-NPP	25.82440	77.99990	11/29/2021	12:40:21	D	2.00
4	GWALIOR	BHITARWAR	S-NPP	25.82570	77.99740	11/29/2021	12:40:21	D	1.60
5	GWALIOR	BHITARWAR	S-NPP	25.83290	77.97750	11/29/2021	12:40:21	D	1.20
6	GWALIOR	BHITARWAR	S-NPP	25.88140	78.05720	11/29/2021	12:40:21	D	4.90
7	GWALIOR	BHITARWAR	S-NPP	25.91730	78.13490	11/29/2021	12:40:21	D	4.70
8	GWALIOR	BHITARWAR	S-NPP	25.94260	78.19310	11/29/2021	12:40:21	D	4.50
9	GWALIOR	BHITARWAR	S-NPP	25.96990	78.14230	11/29/2021	12:40:21	D	4.10
10	GWALIOR	BHITARWAR	S-NPP	25.97080	78.14630	11/29/2021	12:40:21	D	5.50
11	GWALIOR	BHITARWAR	AQUA	25.93300	78.05000	11/29/2021	13:14:14	D	13.60
12	GWALIOR	BHITARWAR	AQUA	25.93500	78.06000	11/29/2021	13:14:14	D	23.60
13	GWALIOR	BHITARWAR	AQUA	25.93600	78.06600	11/29/2021	13:14:14	D	15.30
14	GWALIOR	BHITARWAR	AQUA	25.95100	78.21300	11/29/2021	13:14:14	D	9.80
15	GWALIOR	BHITARWAR	AQUA	25.96100	78.13800	11/29/2021	13:14:14	D	7.80
16	GWALIOR	BHITARWAR	AQUA	25.96200	78.14400	11/29/2021	13:14:14	D	9.10
17	GWALIOR	DABRA	S-NPP	25.87990	78.24960	11/29/2021	12:40:21	D	2.50
18	GWALIOR	DABRA	S-NPP	25.88530	78.24810	11/29/2021	12:40:21	D	2.50
19	GWALIOR	DABRA	S-NPP	25.89340	78.23290	11/29/2021	12:40:21	D	2.70
20	GWALIOR	DABRA	S-NPP	25.89630	78.24500	11/29/2021	12:40:21	D	4.90
21	GWALIOR	DABRA	S-NPP	25.95690	78.25910	11/29/2021	14:19:55	D	3.60
22	GWALIOR	DABRA	AQUA	25.86200	78.16700	11/29/2021	13:14:14	D	12.40
23	GWALIOR	DABRA	AQUA	25.86300	78.17200	11/29/2021	13:14:14	D	17.20
24	GWALIOR	DABRA	AQUA	25.88800	78.24400	11/29/2021	13:14:14	D	17.90
25	JABALPUR	JABALPUR	S-NPP	23.17510	79.82480	11/29/2021	12:40:21	D	2.80
26	JABALPUR	JABALPUR	S-NPP	23.22500	79.91390	11/29/2021	12:40:21	D	6.80
27	JABALPUR	JABALPUR	S-NPP	23.29880	79.87910	11/29/2021	12:40:21	D	1.50
28	JABALPUR	JABALPUR	S-NPP	23.30370	79.96910	11/29/2021	12:40:21	D	2.00
29	JABALPUR	JABALPUR	S-NPP	23.31890	79.91930	11/29/2021	12:40:21	D	3.20
30	JABALPUR	JABALPUR	S-NPP	23.32220	79.88450	11/29/2021	12:40:21	D	12.70
31	JABALPUR	JABALPUR	S-NPP	23.32940	79.91660	11/29/2021	12:40:21	D	5.30

32	JABALPUR	JABALPUR	S-NPP	23.33230	79.97960	11/29/2021	12:40:21	D	3.20
33	JABALPUR	JABALPUR	S-NPP	23.34990	79.93400	11/29/2021	12:40:21	D	3.70
34	JABALPUR	JABALPUR	S-NPP	23.35070	79.93750	11/29/2021	12:40:21	D	7.10
35	JABALPUR	JABALPUR	AQUA	23.08000	79.98700	11/29/2021	13:14:14	D	14.90
36	JABALPUR	JABALPUR	AQUA	23.24400	79.92700	11/29/2021	13:14:14	D	10.20
37	JABALPUR	MAJHOULI	S-NPP	23.52100	80.04300	11/29/2021	12:40:21	D	7.70
38	JABALPUR	PATAN	S-NPP	23.19520	79.83020	11/29/2021	12:40:21	D	2.60
39	JABALPUR	PATAN	S-NPP	23.19810	79.76780	11/29/2021	12:40:21	D	5.00
40	JABALPUR	PATAN	S-NPP	23.19970	79.82520	11/29/2021	12:40:21	D	2.60
41	JABALPUR	PATAN	S-NPP	23.20140	79.78240	11/29/2021	12:40:21	D	6.20
42	JABALPUR	PATAN	S-NPP	23.20990	79.79570	11/29/2021	12:40:21	D	1.00
43	JABALPUR	PATAN	S-NPP	23.22930	79.70540	11/29/2021	12:40:21	D	4.70
44	JABALPUR	PATAN	S-NPP	23.23510	79.80840	11/29/2021	12:40:21	D	4.30
45	JABALPUR	PATAN	S-NPP	23.24230	79.84100	11/29/2021	12:40:21	D	2.80
46	JABALPUR	PATAN	S-NPP	23.24640	79.73210	11/29/2021	12:40:21	D	5.90
47	JABALPUR	PATAN	S-NPP	23.24720	79.73580	11/29/2021	12:40:21	D	8.30
48	JABALPUR	PATAN	S-NPP	23.27330	79.82930	11/29/2021	12:40:21	D	2.20
49	JABALPUR	PATAN	S-NPP	23.27610	79.82780	11/29/2021	12:40:21	D	2.40
50	JABALPUR	PATAN	S-NPP	23.30210	79.79440	11/29/2021	12:40:21	D	2.80
51	JABALPUR	PATAN	S-NPP	23.33100	79.79850	11/29/2021	12:40:21	D	5.40
52	JABALPUR	PATAN	S-NPP	23.39160	79.83330	11/29/2021	12:40:21	D	2.50
53	JABALPUR	PATAN	S-NPP	23.40820	79.83280	11/29/2021	12:40:21	D	3.50
54	JABALPUR	PATAN	AQUA	23.19700	79.78100	11/29/2021	13:14:14	D	14.70
55	JABALPUR	PATAN	AQUA	23.19700	79.83800	11/29/2021	13:14:14	D	8.90
56	JABALPUR	PATAN	AQUA	23.23000	79.84600	11/29/2021	13:14:14	D	8.70
57	JABALPUR	PATAN	AQUA	23.26800	79.71700	11/29/2021	13:14:14	D	8.00
58	JABALPUR	PATAN	AQUA	23.28400	79.77800	11/29/2021	13:14:14	D	10.20
59	JABALPUR	PATAN	AQUA	23.34200	79.83000	11/29/2021	13:14:14	D	10.30
60	JABALPUR	SAHPURA	S-NPP	23.17690	79.82330	11/29/2021	12:40:21	D	2.50
61	JABALPUR	SAHPURA	S-NPP	23.18380	79.77920	11/29/2021	12:40:21	D	2.60
62	JABALPUR	SAHPURA	S-NPP	23.19610	79.78380	11/29/2021	12:40:21	D	6.20
63	JABALPUR	SAHPURA	S-NPP	23.19690	79.78750	11/29/2021	12:40:21	D	12.10
64	JABALPUR	SAHPURA	AQUA	23.16100	79.72200	11/29/2021	13:14:14	D	8.40
65	JABALPUR	SAHPURA	AQUA	23.19100	79.77300	11/29/2021	13:14:14	D	19.90
66	JABALPUR	SAHPURA	AQUA	23.19500	79.76700	11/29/2021	13:14:14	D	10.60
67	JABALPUR	SIHORA	S-NPP	23.42220	80.21310	11/29/2021	12:40:21	D	5.40

68	JABALPUR	SIHORA	S-NPP	23.42950	80.19680	11/29/2021	12:40:21	D	1.90
69	JABALPUR	SIHORA	S-NPP	23.43260	80.23560	11/29/2021	12:40:21	D	4.60
70	JABALPUR	SIHORA	S-NPP	23.45240	80.22700	11/29/2021	12:40:21	D	2.80
71	JABALPUR	SIHORA	AQUA	23.41400	80.18700	11/29/2021	13:14:14	D	12.60
72	JABALPUR	SIHORA	AQUA	23.44300	80.23500	11/29/2021	13:14:14	D	24.80
73	JABALPUR	SIHORA	AQUA	23.45000	80.22800	11/29/2021	13:14:14	D	16.70
74	JABALPUR	SIHORA	AQUA	23.45200	80.24100	11/29/2021	13:14:14	D	25.40
75	JABALPUR	SIHORA	AQUA	23.45300	80.23300	11/29/2021	13:14:14	D	11.70
76	MANDLA	BACHHIYA	S-NPP	22.53040	80.42390	11/29/2021	12:40:21	D	1.80
77	MANDLA	BACHHIYA	S-NPP	22.53080	80.42420	11/29/2021	12:40:21	D	2.10
78	MANDLA	MANDLA	S-NPP	22.47700	80.35370	11/29/2021	12:40:21	D	5.20
79	MANDLA	MANDLA	S-NPP	22.47770	80.35720	11/29/2021	12:40:21	D	6.10
80	MANDLA	NAINPUR	S-NPP	22.43130	80.09270	11/29/2021	12:40:21	D	2.50
81	NARSHIMAPURA	GOTECAON	S-NPP	23.13500	79.51130	11/29/2021	12:40:21	D	2.50
82	PANNA	SHAHNAGAR	S-NPP	24.04110	80.33230	11/29/2021	12:40:21	D	1.60
83	RAISEN	BARELI	S-NPP	22.92650	77.96630	11/29/2021	14:19:55	D	3.20
84	REWA	TEONTHAR	S-NPP	24.98750	81.70630	11/29/2021	12:40:21	D	7.10
85	REWA	TEONTHAR	S-NPP	24.98760	81.70900	11/29/2021	12:40:21	D	5.10
86	REWA	TEONTHAR	S-NPP	25.03180	81.71430	11/29/2021	12:40:21	D	3.80
87	REWA	TEONTHAR	AQUA	24.99000	81.70900	11/29/2021	13:14:14	D	5.10
88	SEHORE	BUDHNI	S-NPP	22.90990	78.03320	11/29/2021	12:40:21	D	2.80
89	SEONI	SEONI	S-NPP	22.04380	79.50550	11/29/2021	12:40:21	D	2.30
90	SEONI	SEONI	S-NPP	22.19290	79.73480	11/29/2021	12:40:21	D	2.90
91	SHEOPUR	SHEOPUR	S-NPP	25.60890	76.60850	11/29/2021	12:40:21	D	5.00
92	SHIVPURI	NARWAR	S-NPP	25.70720	78.00620	11/29/2021	12:40:21	D	4.20
93	SHIVPURI	NARWAR	S-NPP	25.71020	78.00480	11/29/2021	12:40:21	D	5.70
94	SHIVPURI	NARWAR	AQUA	25.63700	78.26800	11/29/2021	13:14:14	D	13.10
95	SHIVPURI	NARWAR	AQUA	25.71800	78.07700	11/29/2021	13:14:14	D	16.30

The study used data received from following Satellites at NRSC 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

The rice mask for the Punjab and Haryana were provided by MNCFC, MoA&FW, Govt of India
The kharif crop mask for Delhi, Uttar Pradesh, Rajasthan and Madhya Pradesh were provided by NRSC

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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)
