



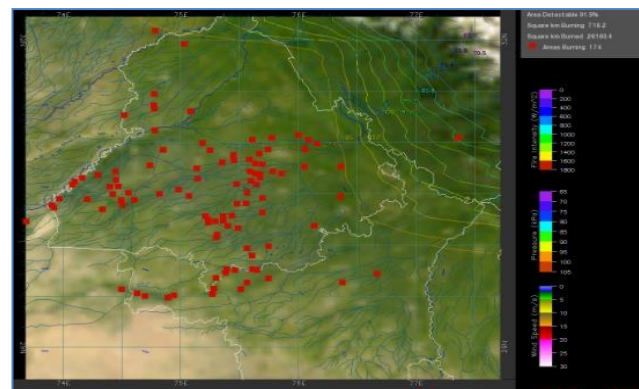
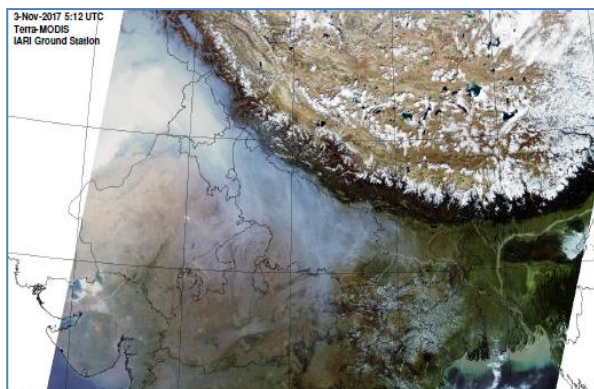
**Bulletin
No. 26**

**Events Date:
10-Oct-2021**

**Issued on:
10-Oct-2021**



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



Prepared by:

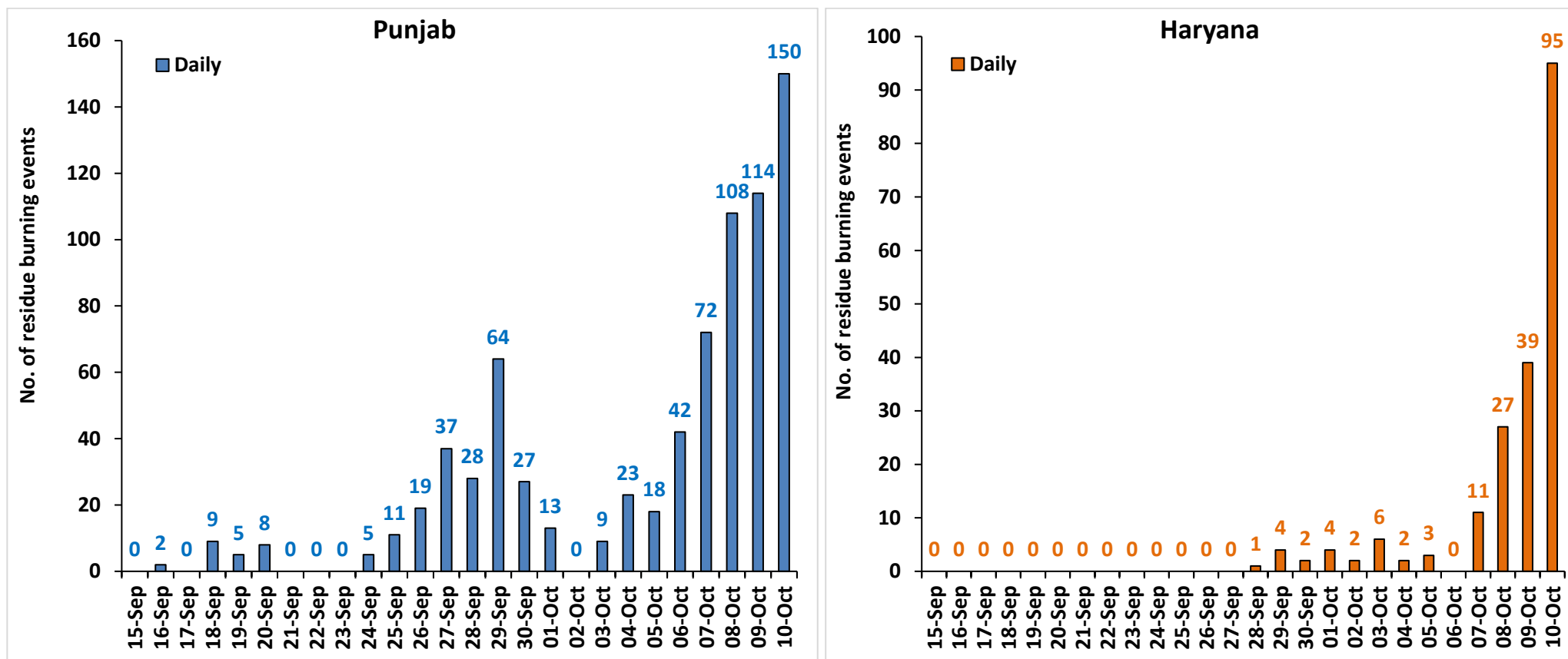
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

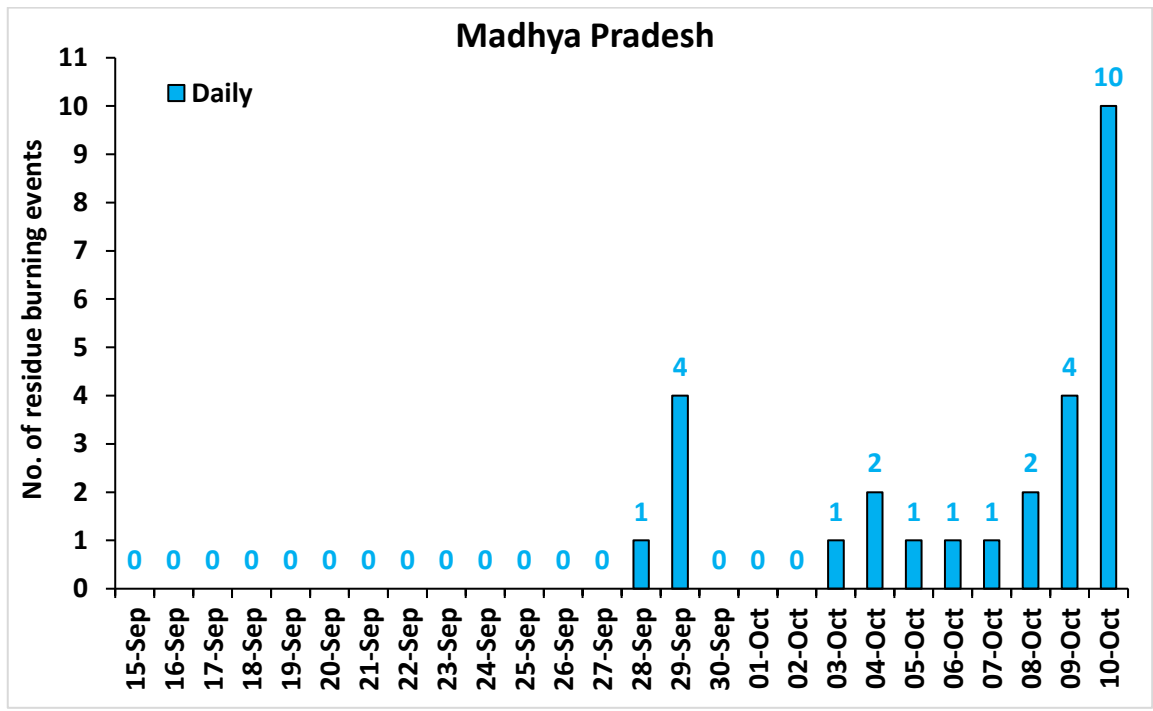
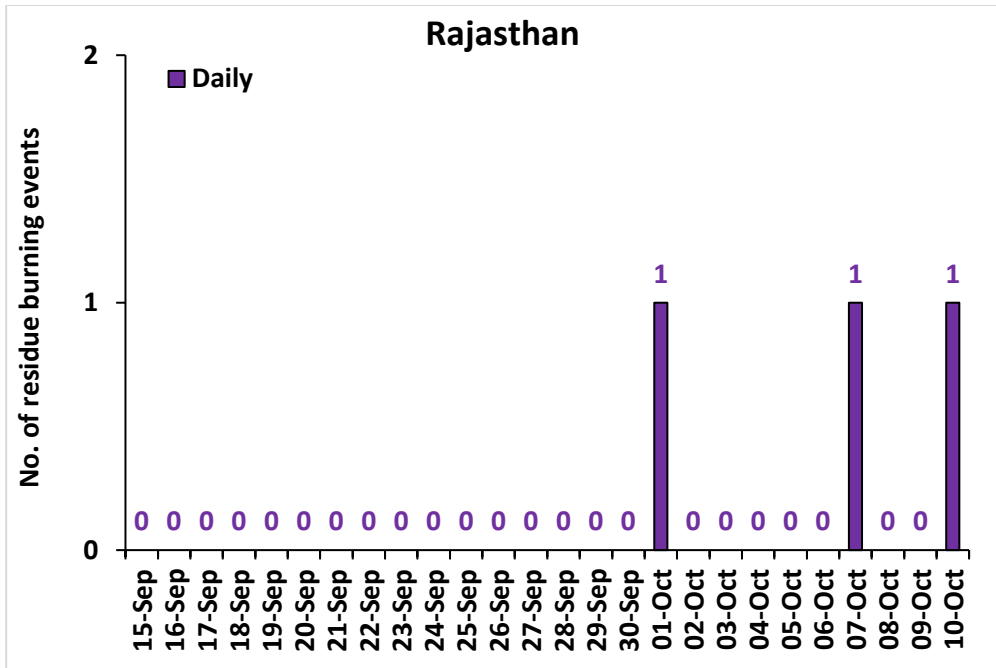
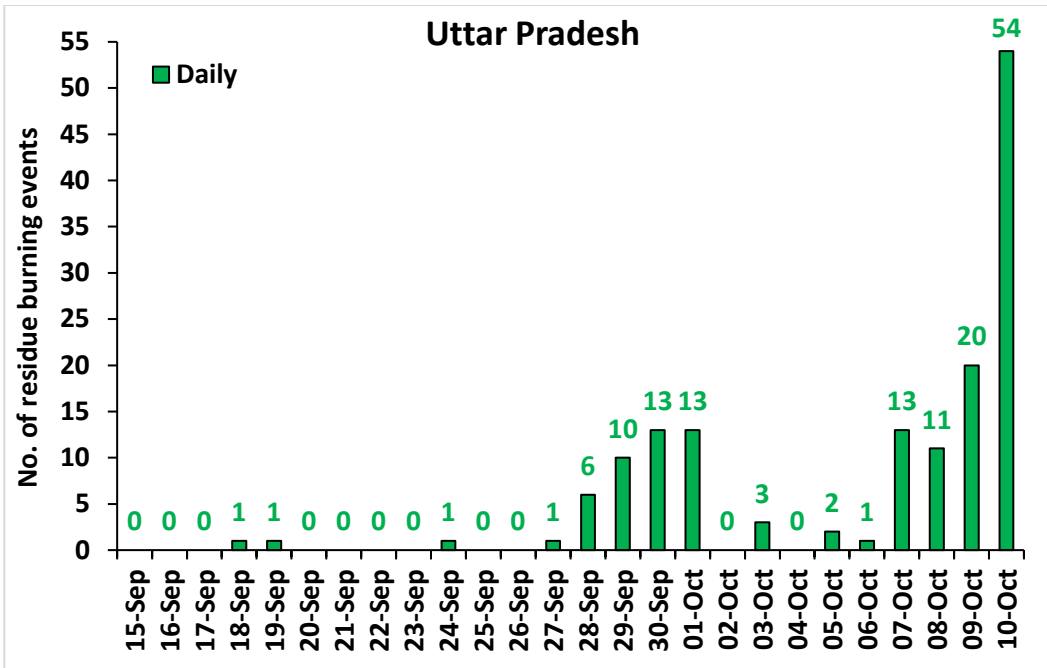
<http://creams.iari.res.in>

Highlights for 10-October-2021

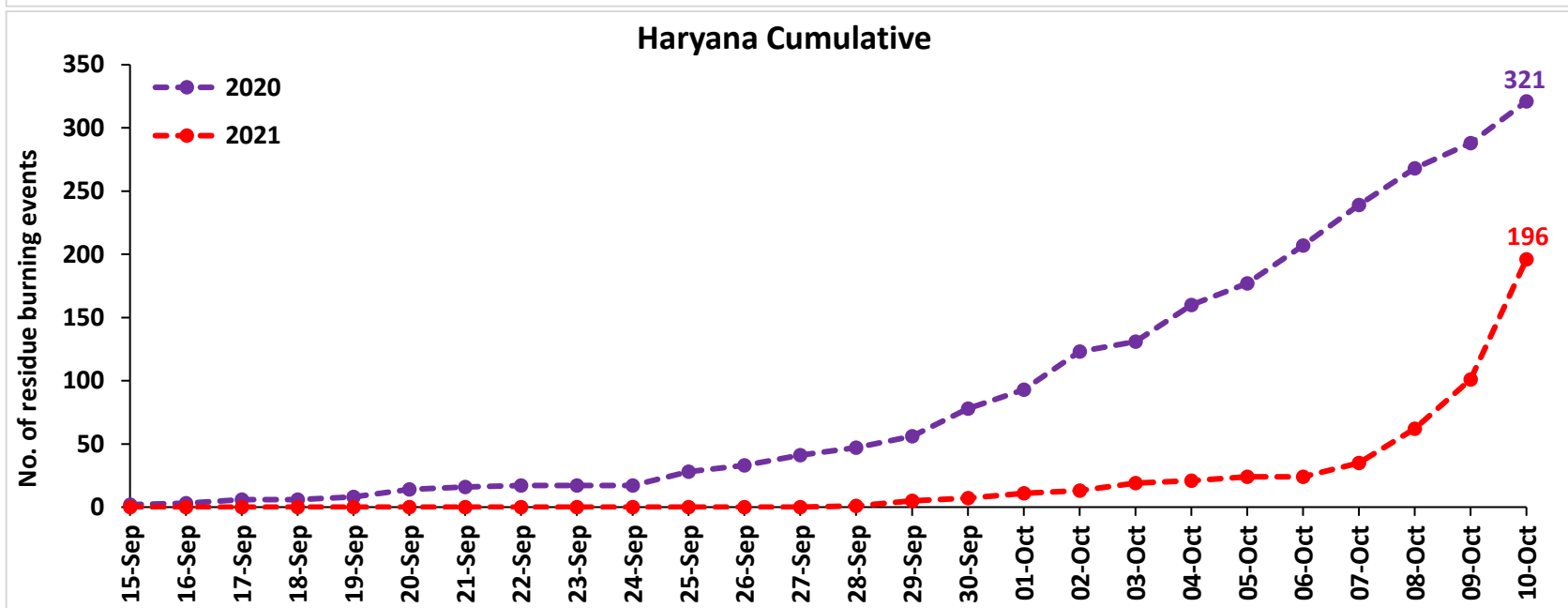
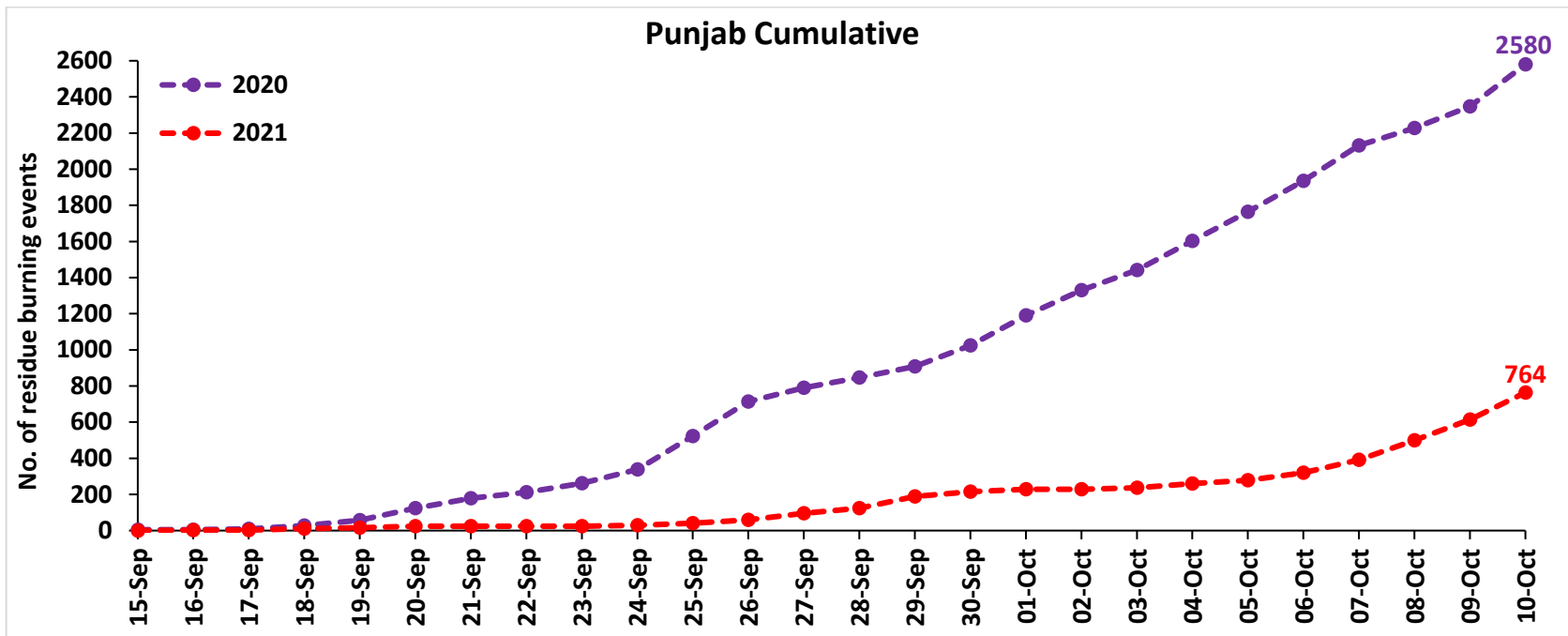
- The active fire events due to rice residue burning were monitored using satellite remote sensing, following the new "Standard Protocol for Estimation of Crop Residue Burning Fire Events using Satellite Data".
- Satellites detected **310** residue burning events in the six study States on 10-Oct-2021.
- The state wise events detected on 10-Oct-2021 were **150** in Punjab, **95** in Haryana, **54** in UP, **0** in Delhi, **1** in Rajasthan and **10** in MP.
- Detection of burning events by satellites was hampered due to scattered clouds over eastern Uttar Pradesh.

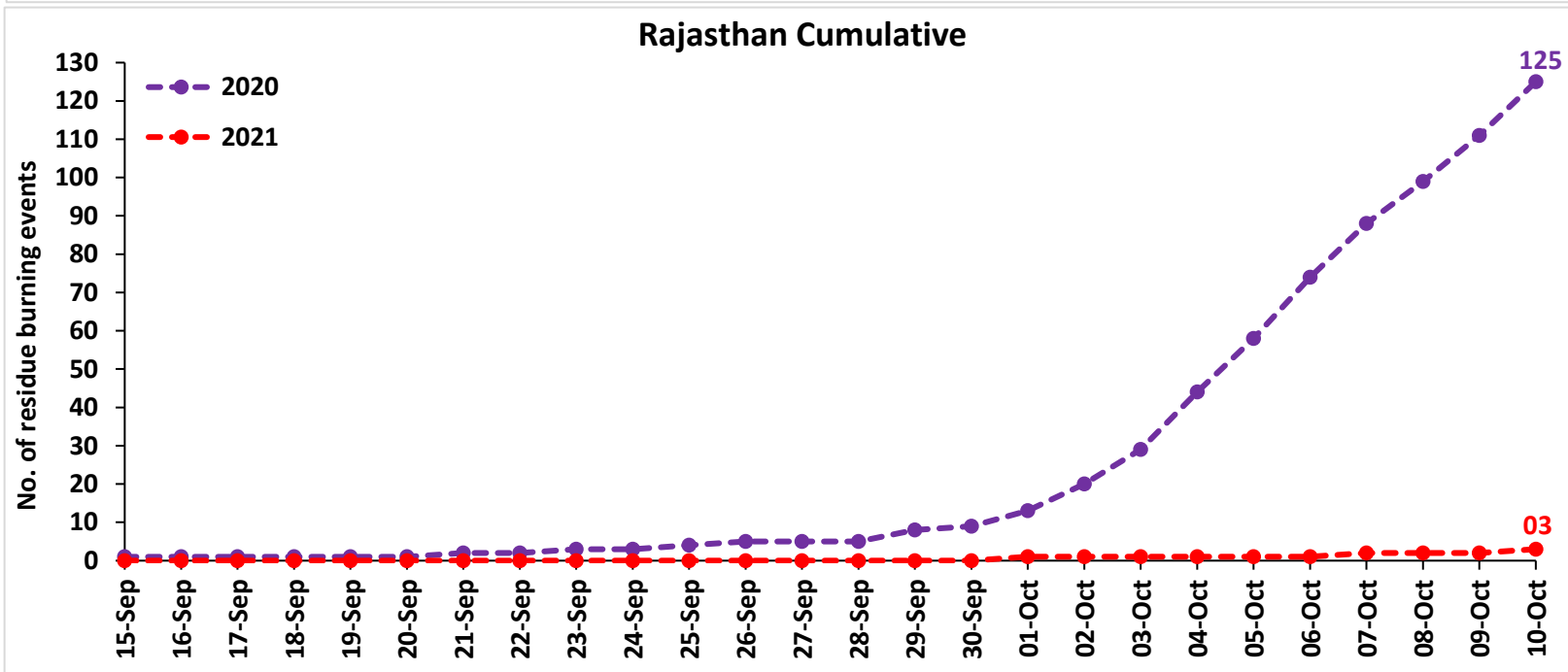
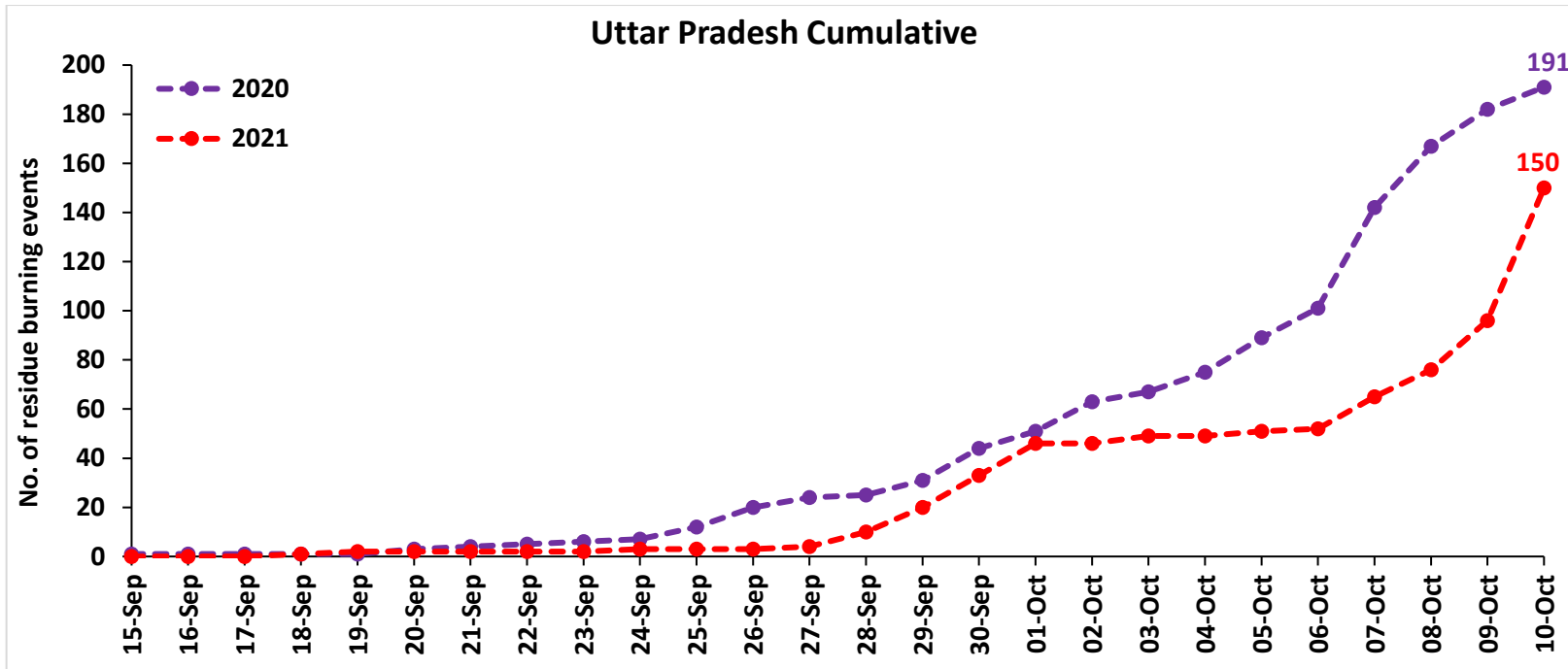
Temporal distribution of rice residue burning events for the study States in 2021



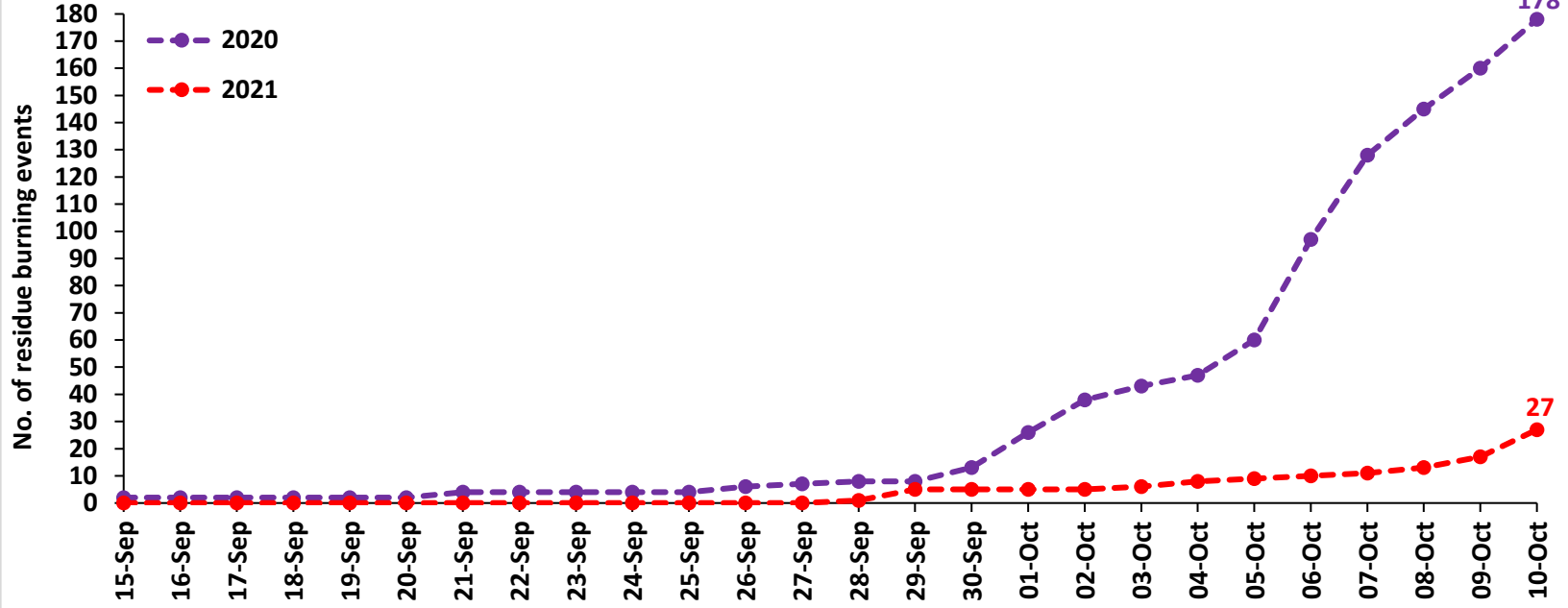


Comparison of residue burning events in current year (2021) with previous year (2020) for the study States

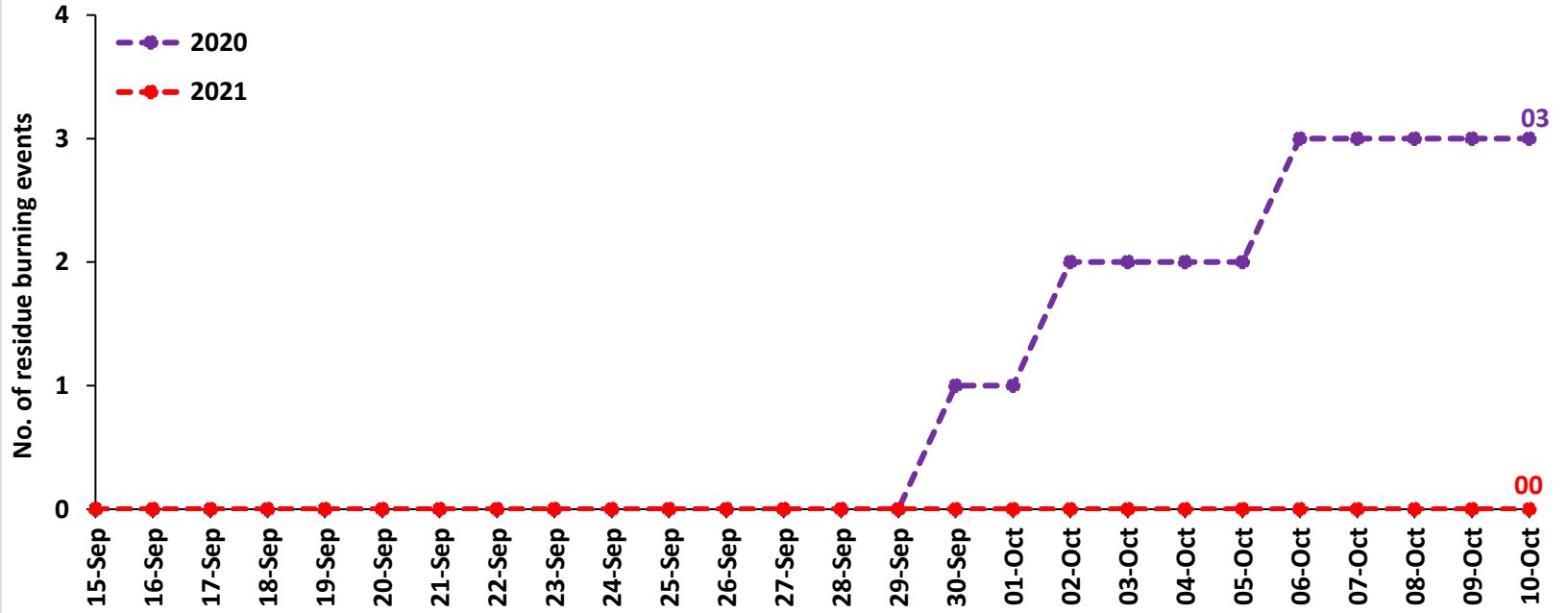




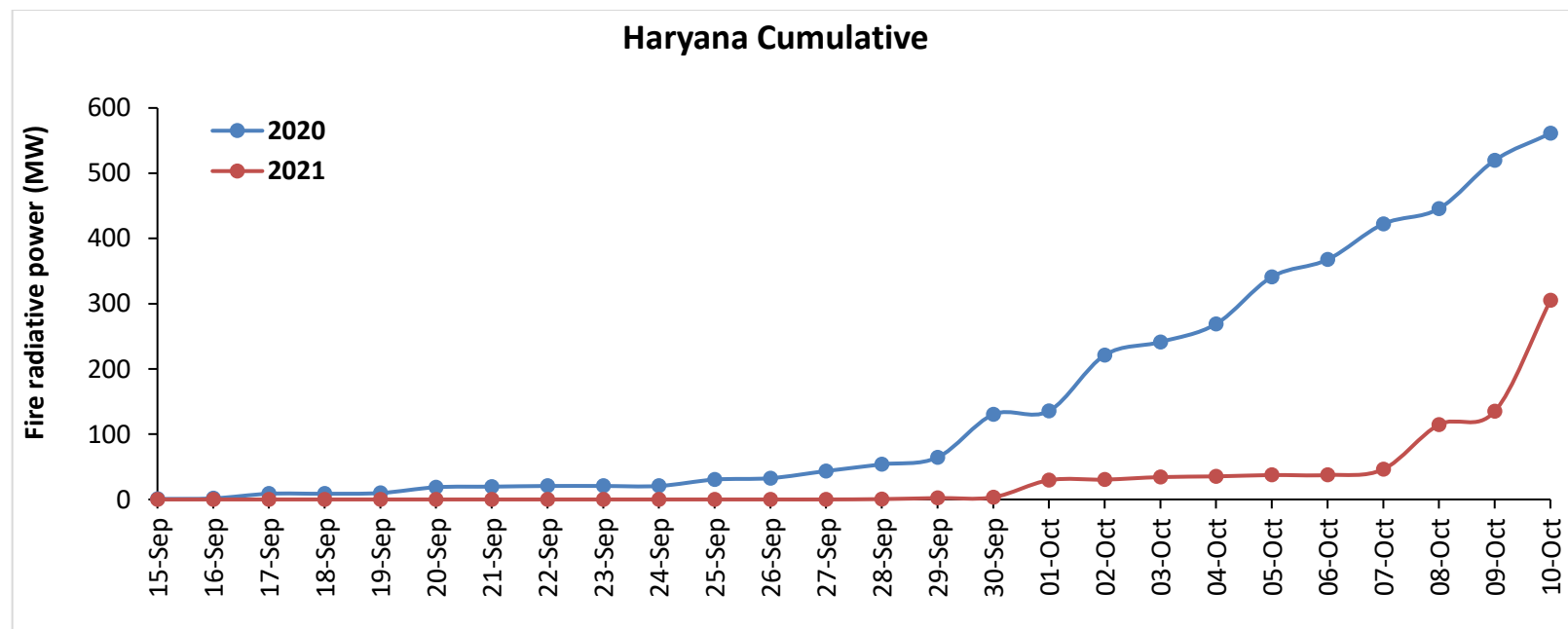
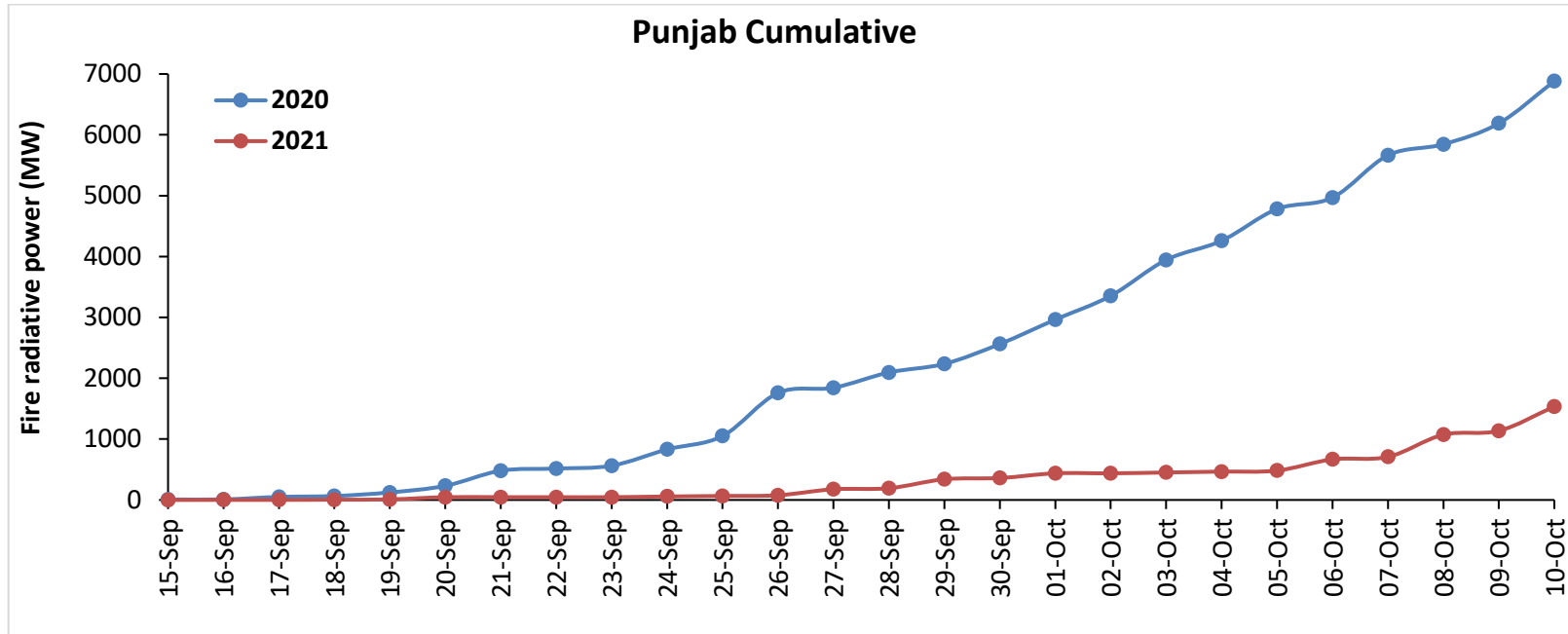
Madhya Pradesh Cumulative



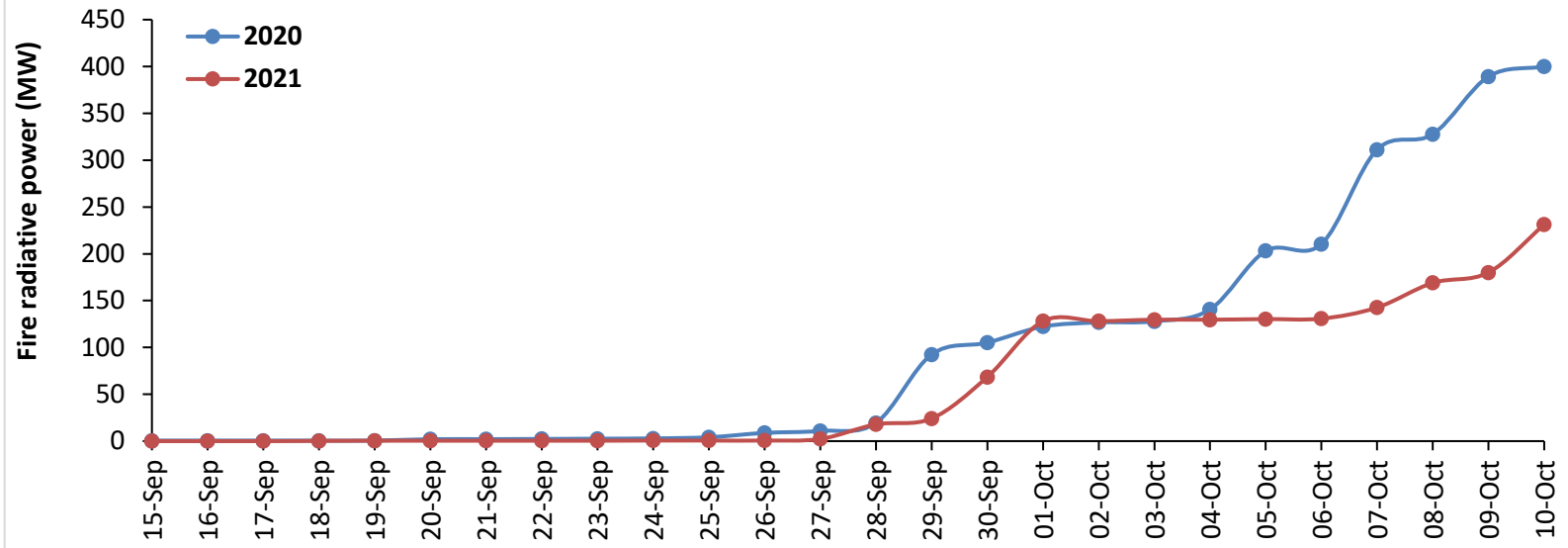
Delhi Cumulative



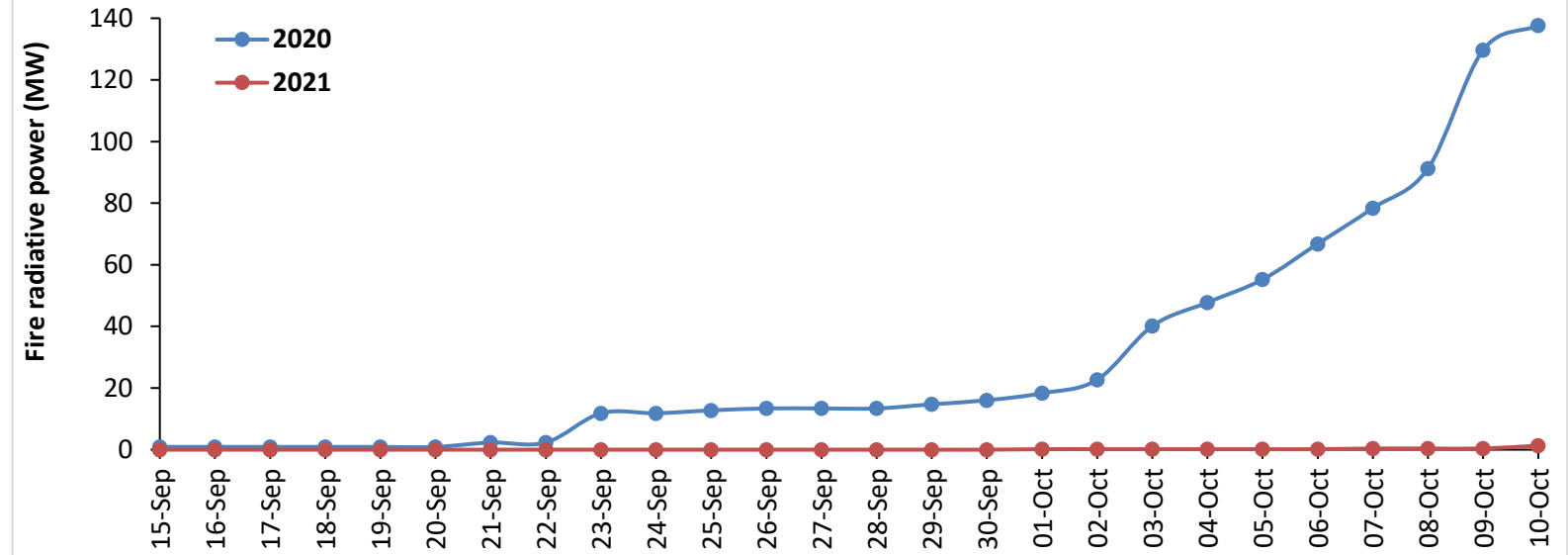
Comparison of residue burning fire power in current year (2021) with previous year (2020) for the study States



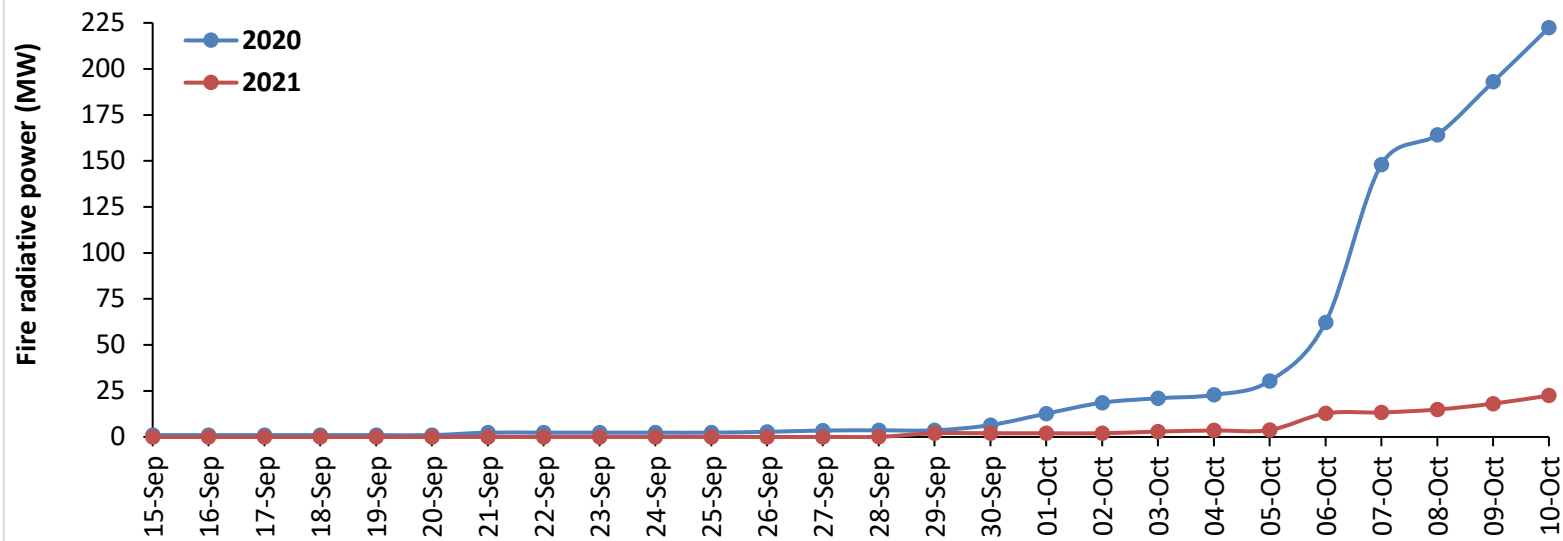
Uttar Pradesh Cumulative



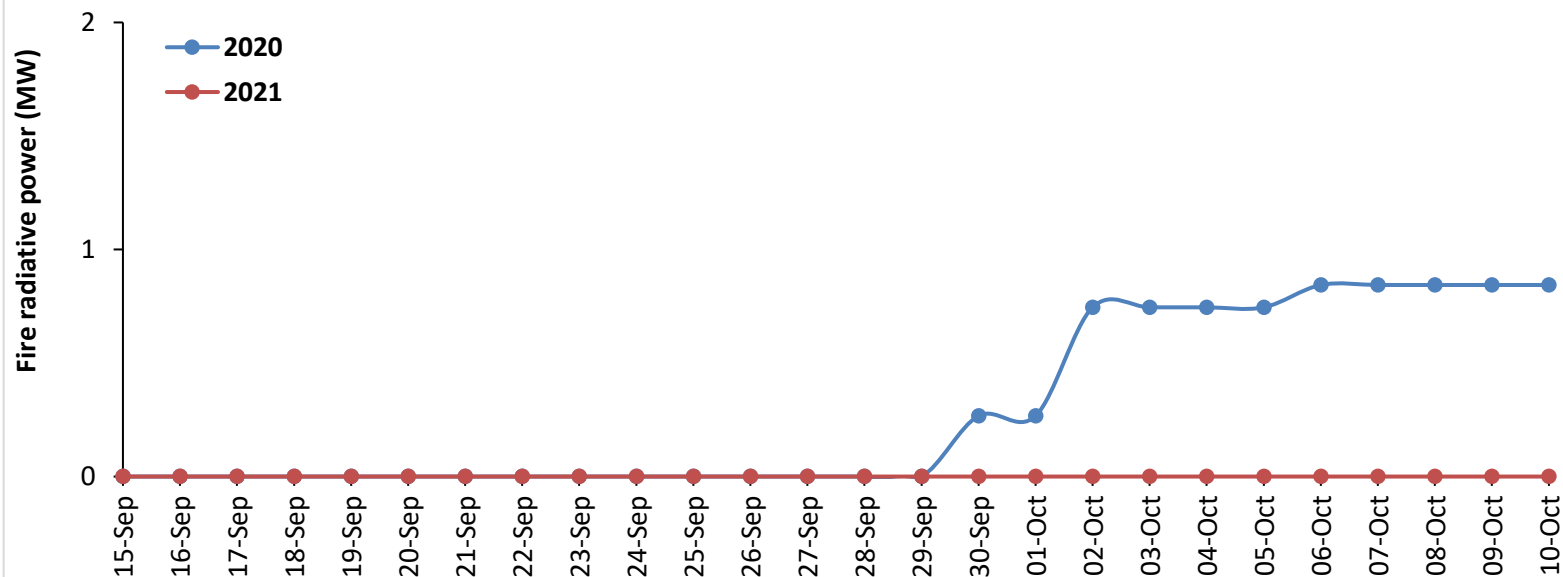
Rajasthan Cumulative



Madhya Pradesh Cumulative

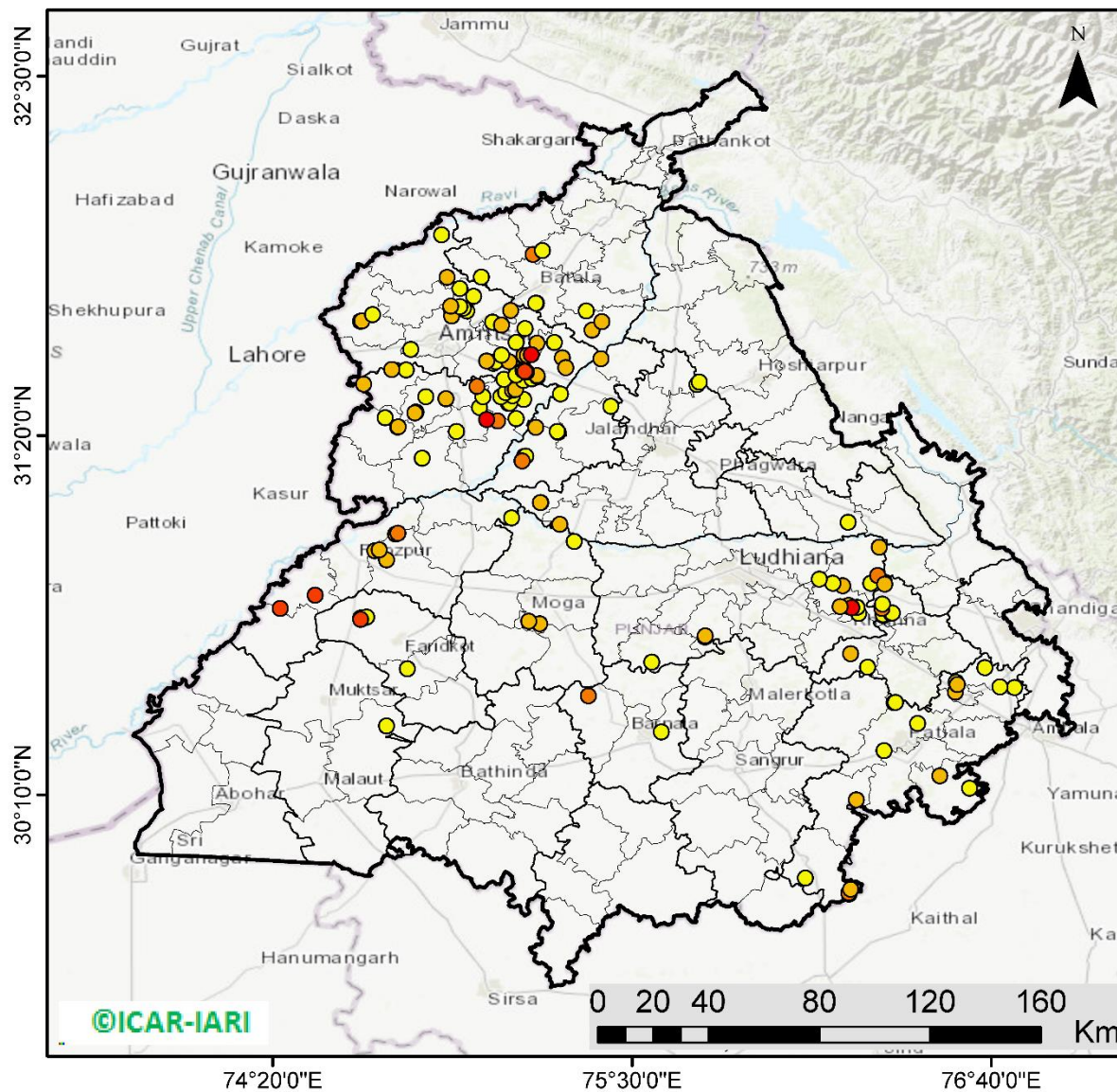


Delhi Cumulative



Punjab

RICE RESIDUE BURNING IN PUNJAB



150 burning events detected in Punjab on 10th October 2021

Fire Intensity (W/m²)

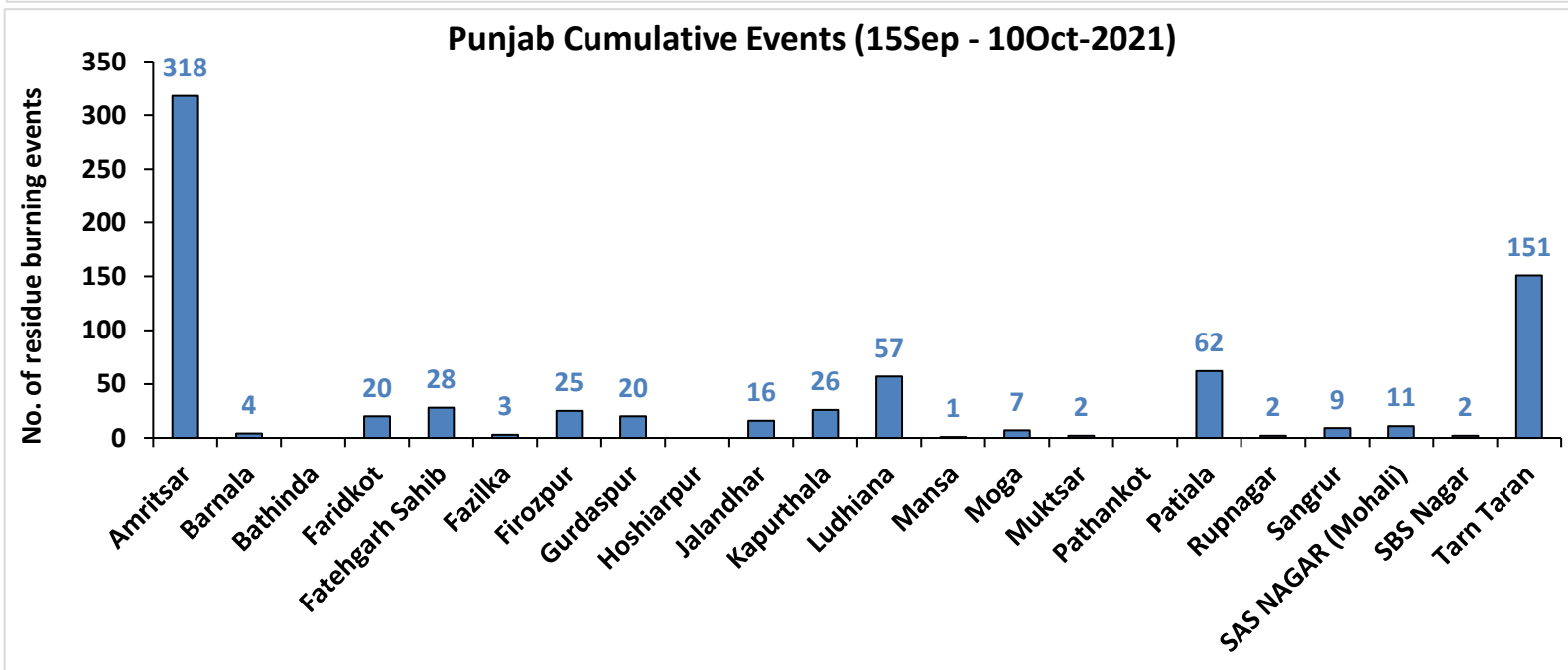
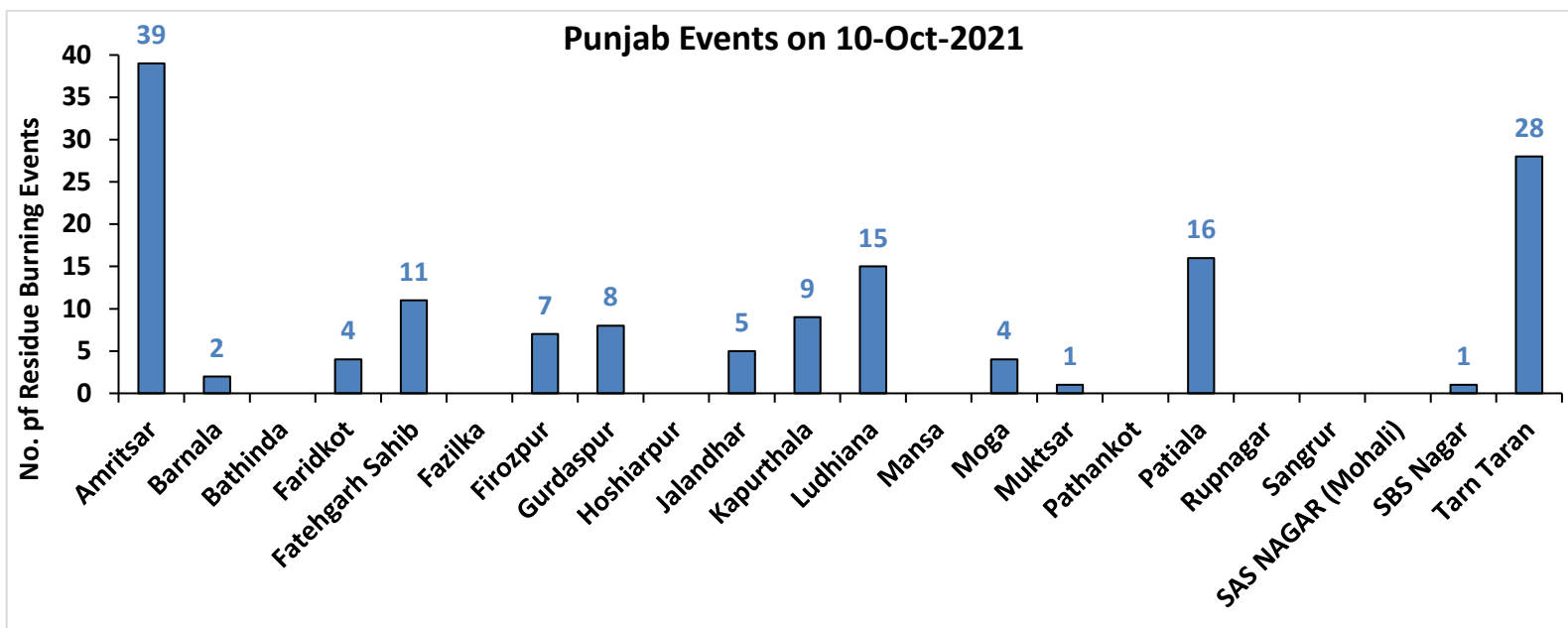
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



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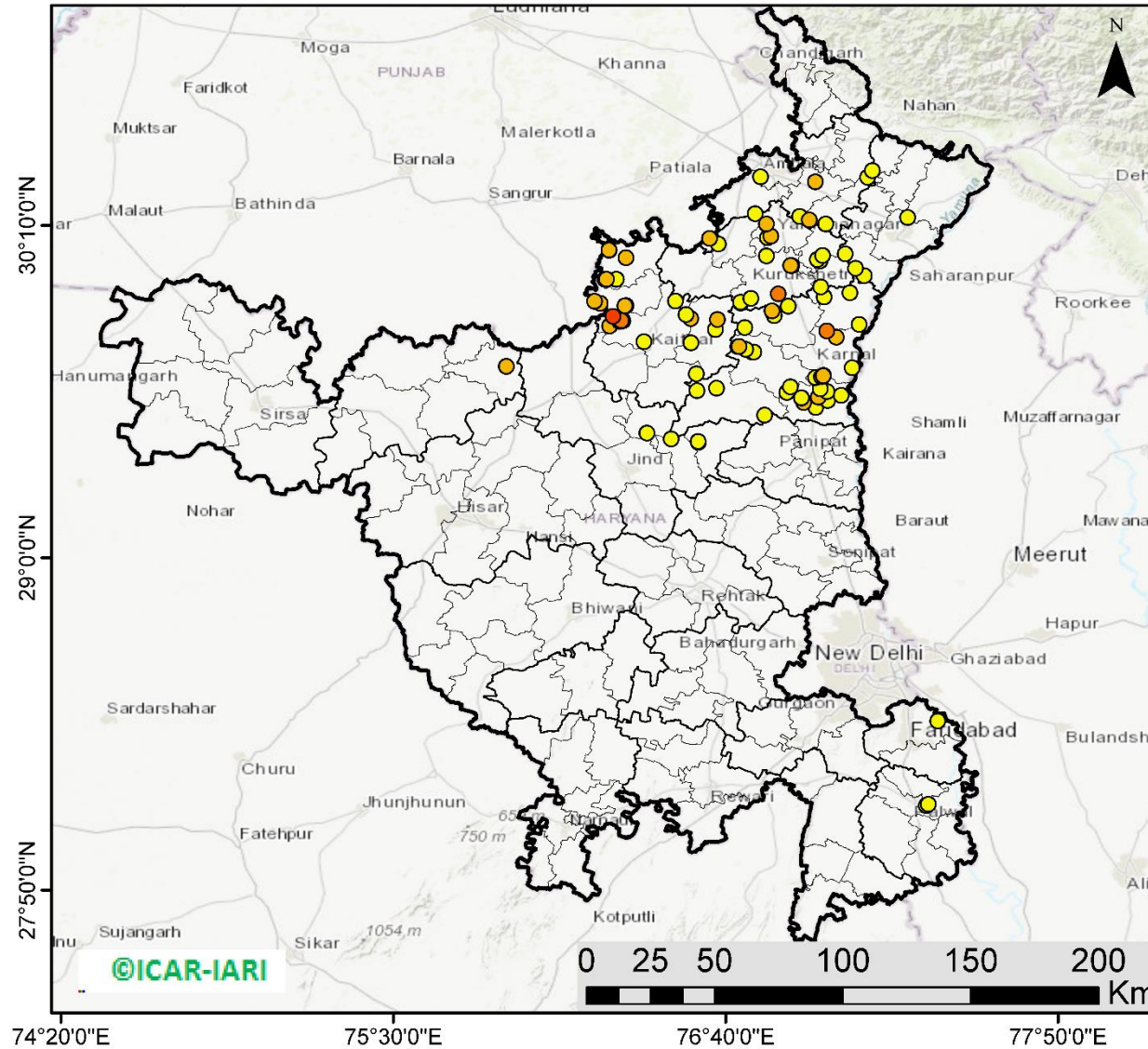
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Punjab (15Sep - 10Oct-2021)



Haryana

RICE RESIDUE BURNING IN HARYANA



95 burning events detected in Haryana on 10th October 2021

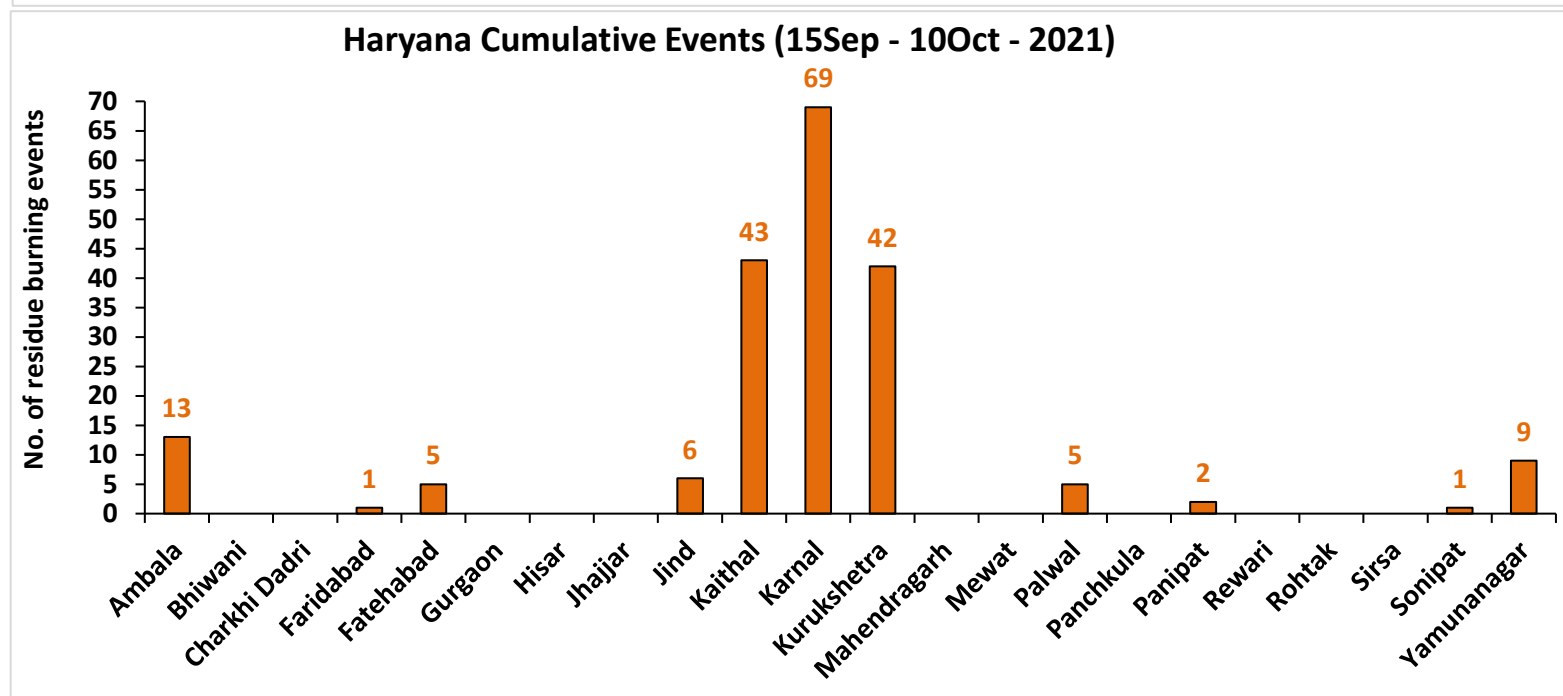
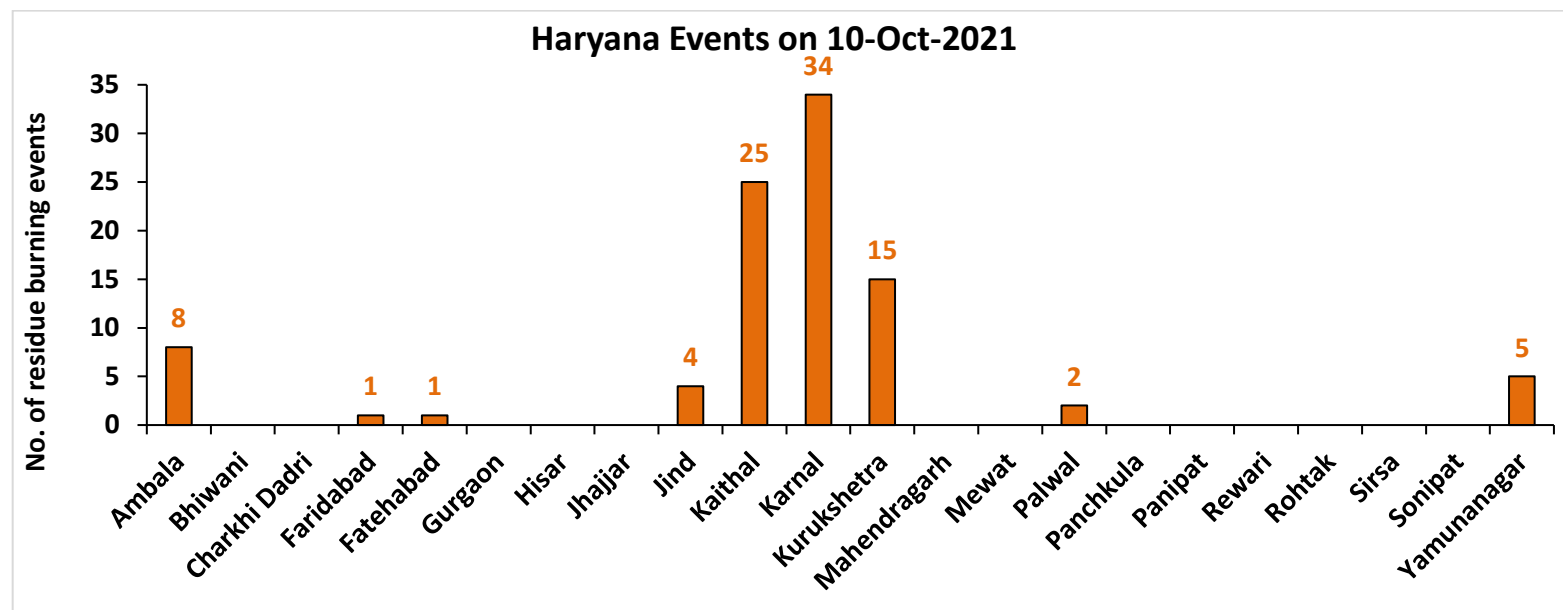
Fire Intensity (W/m²)

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



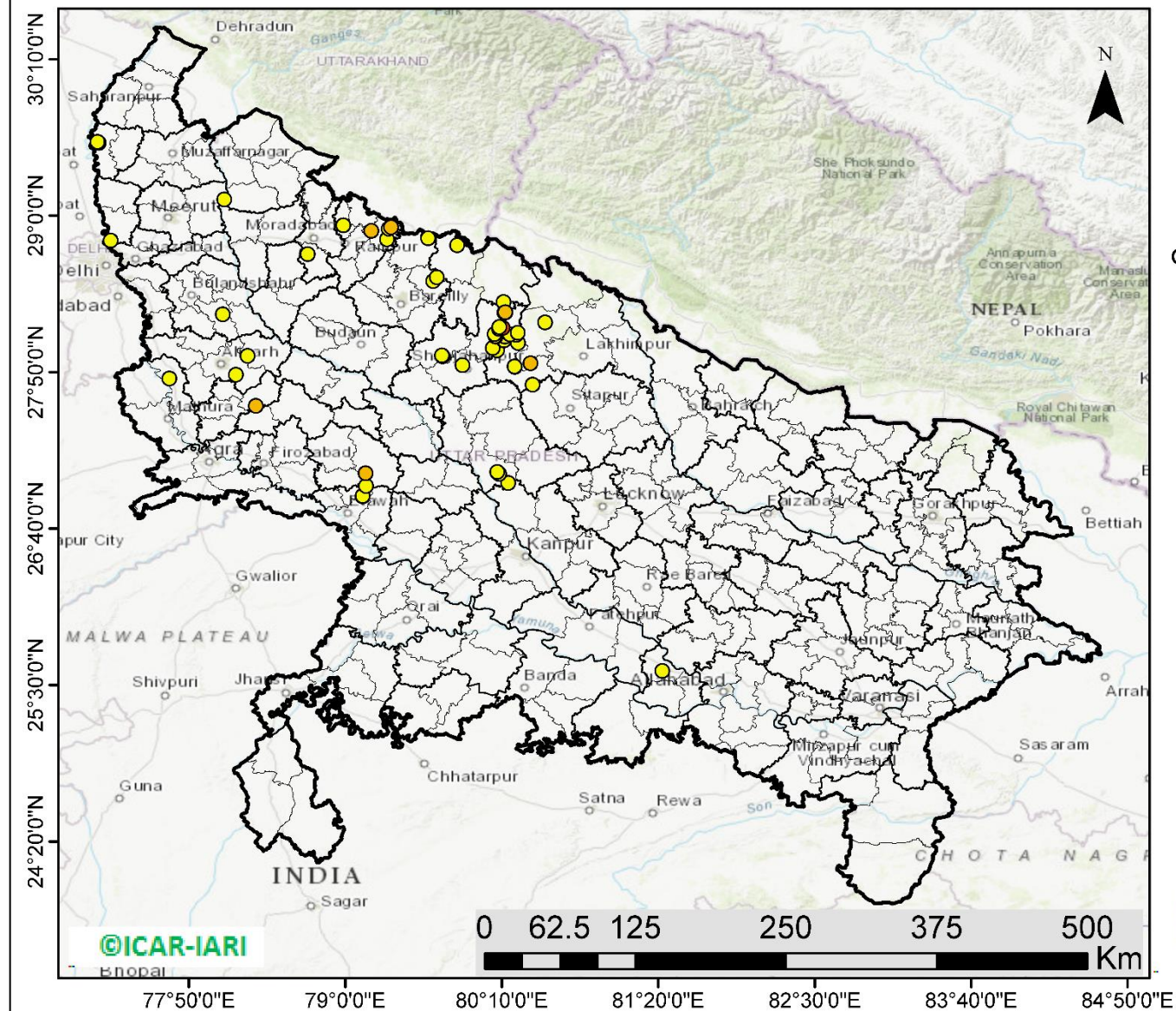
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Haryana (15Sep - 10Oct-2021)



Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



54 burning events
detected in Uttar Pradesh on
10th October 2021

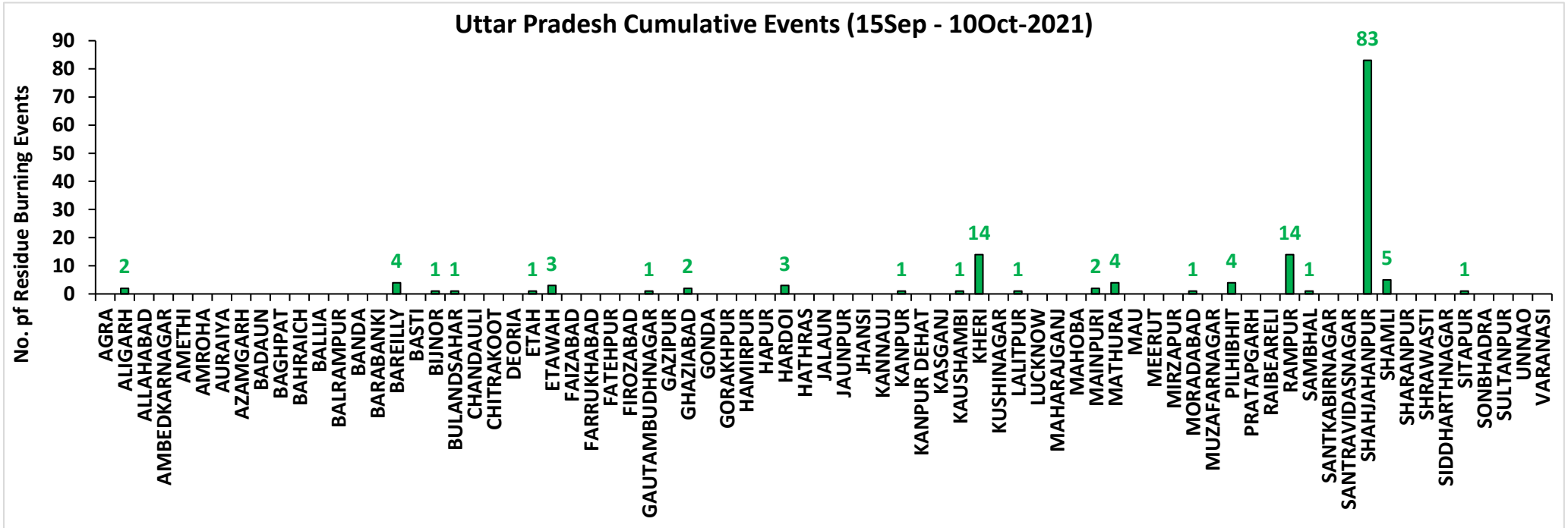
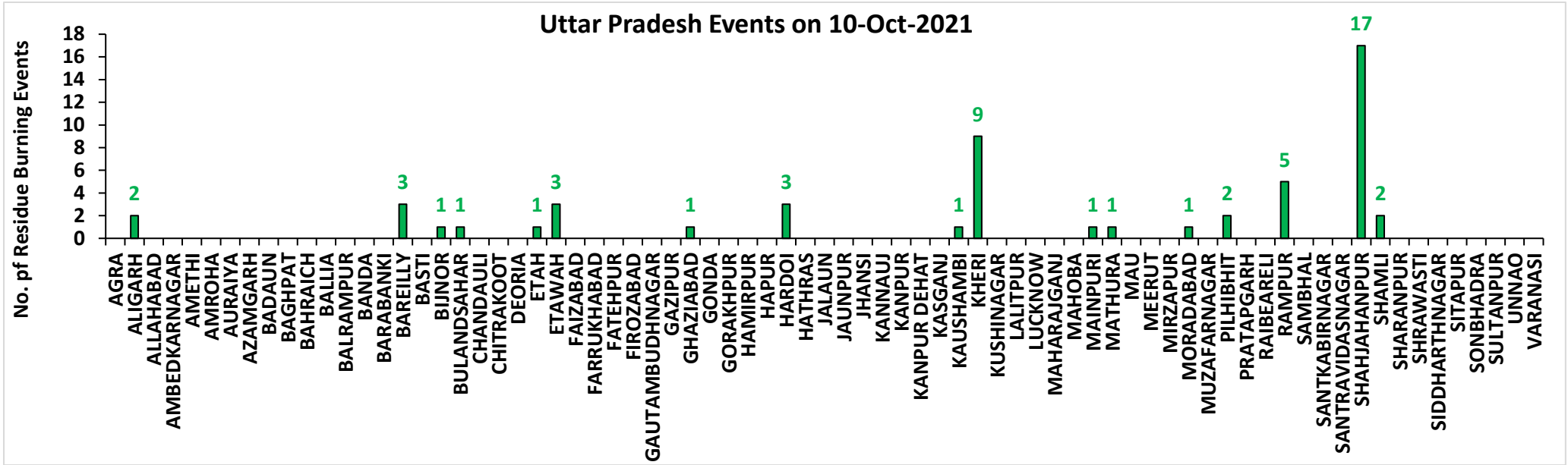
Fire Intensity (W/m²)

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



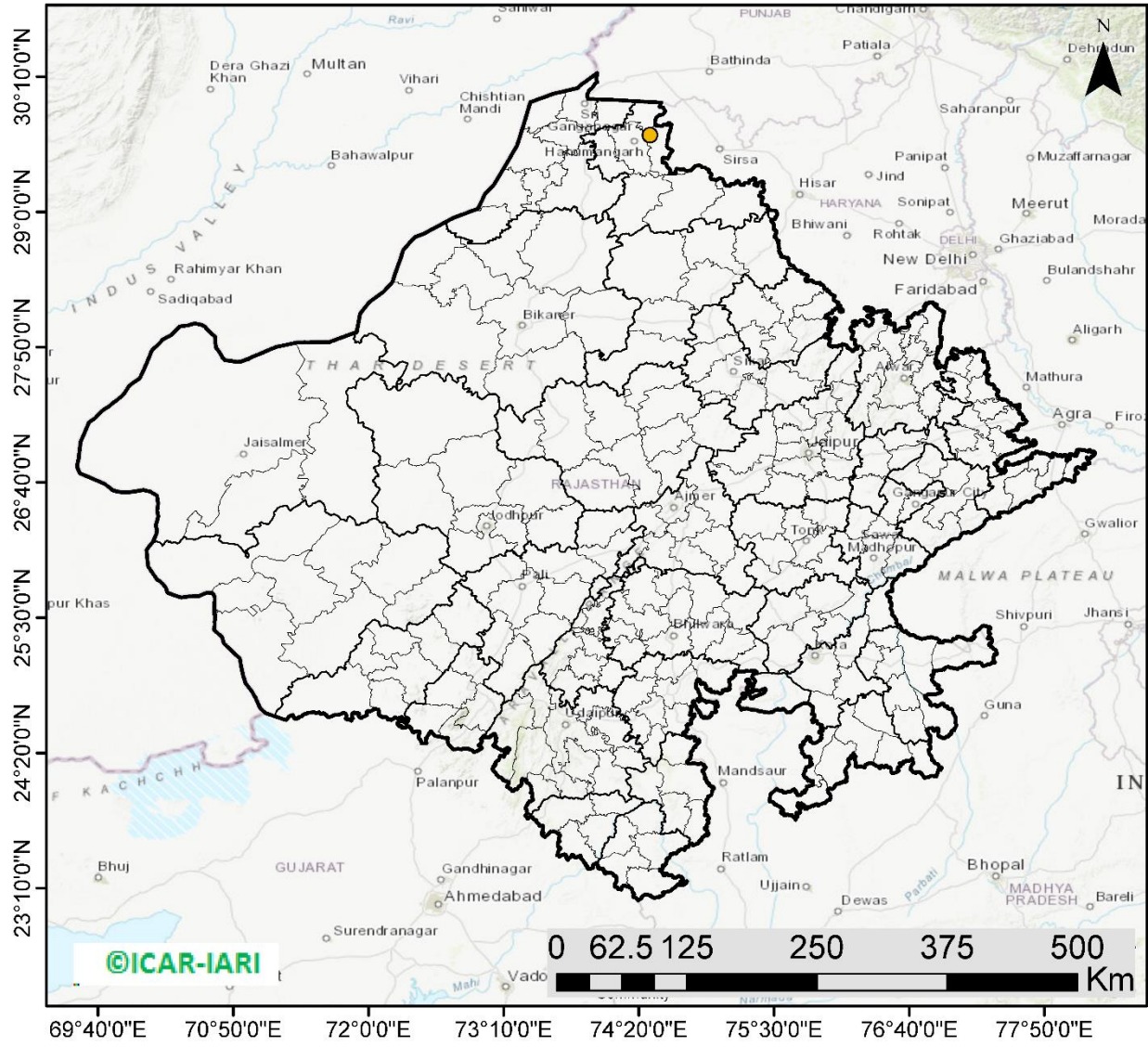
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Uttar Pradesh (15 Sep - 10 Oct-2021)



Rajasthan

RICE RESIDUE BURNING IN RAJASTHAN



01 burning events detected in Rajasthan on 10th October 2021

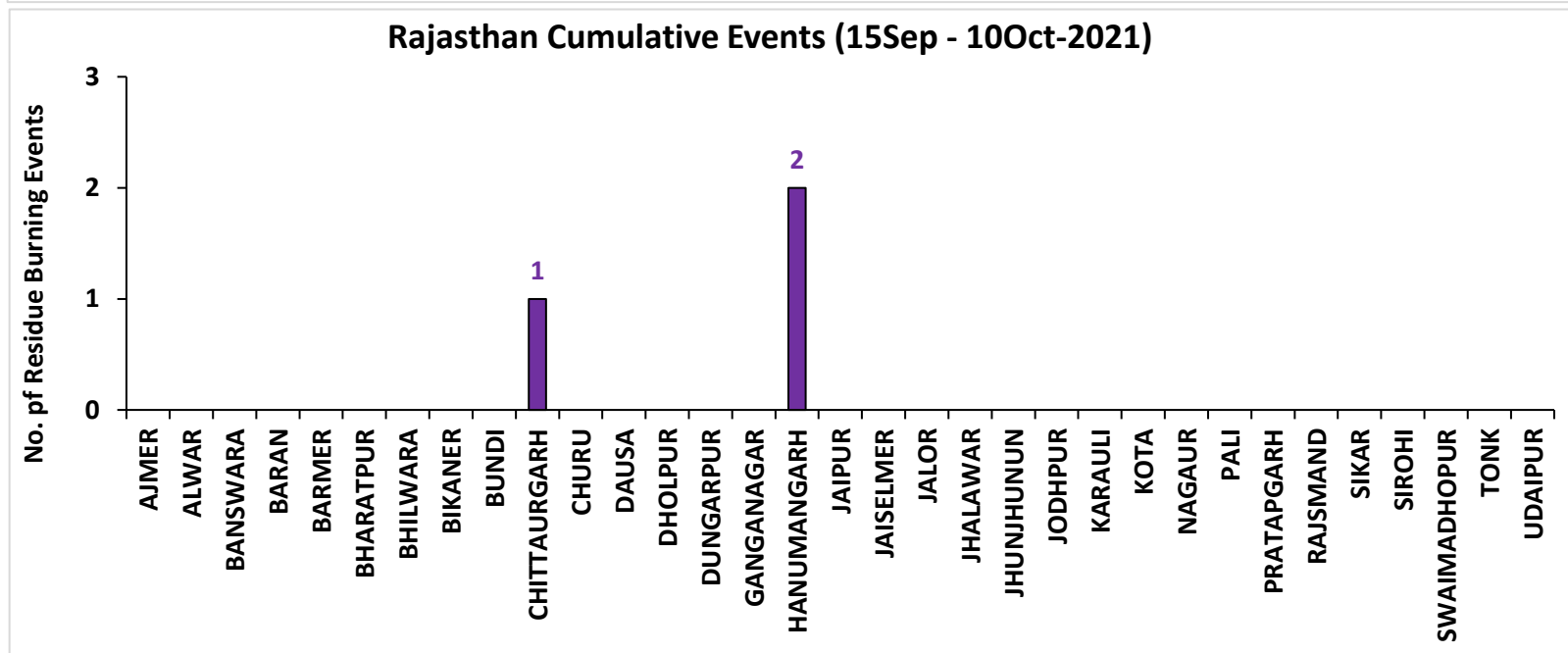
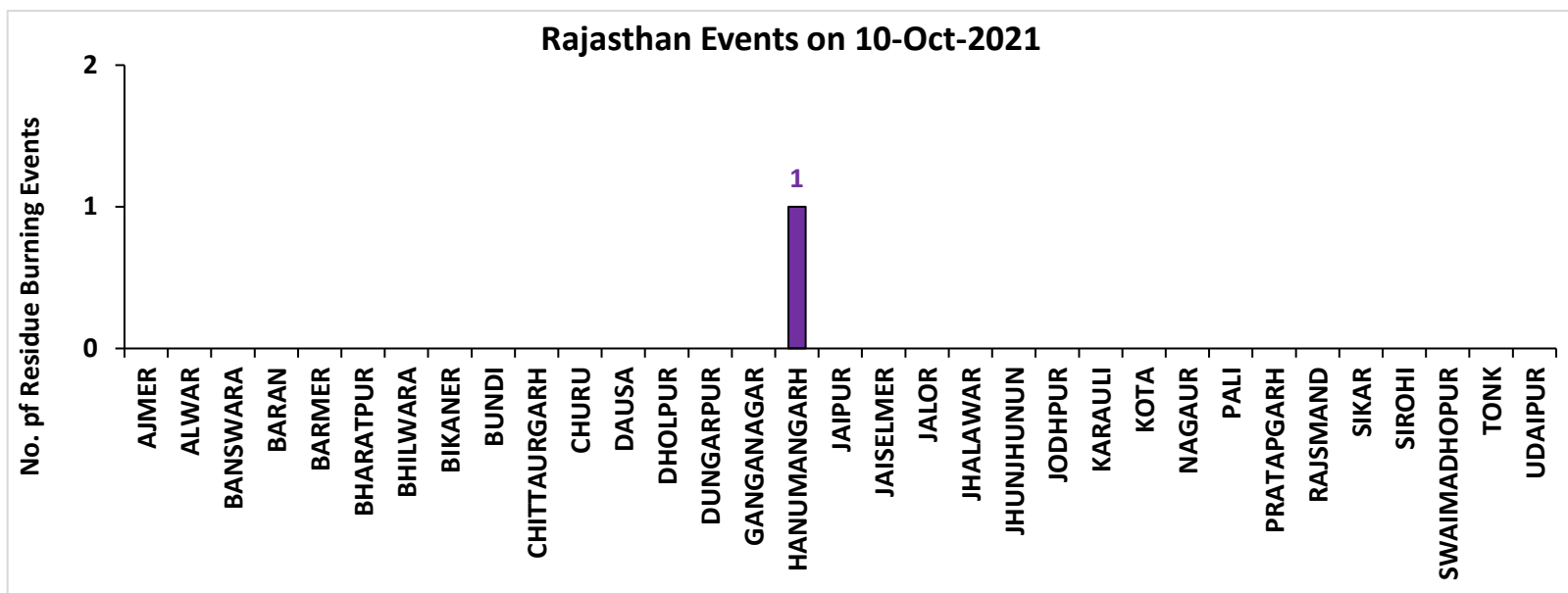
Fire Intensity (W/m²)

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



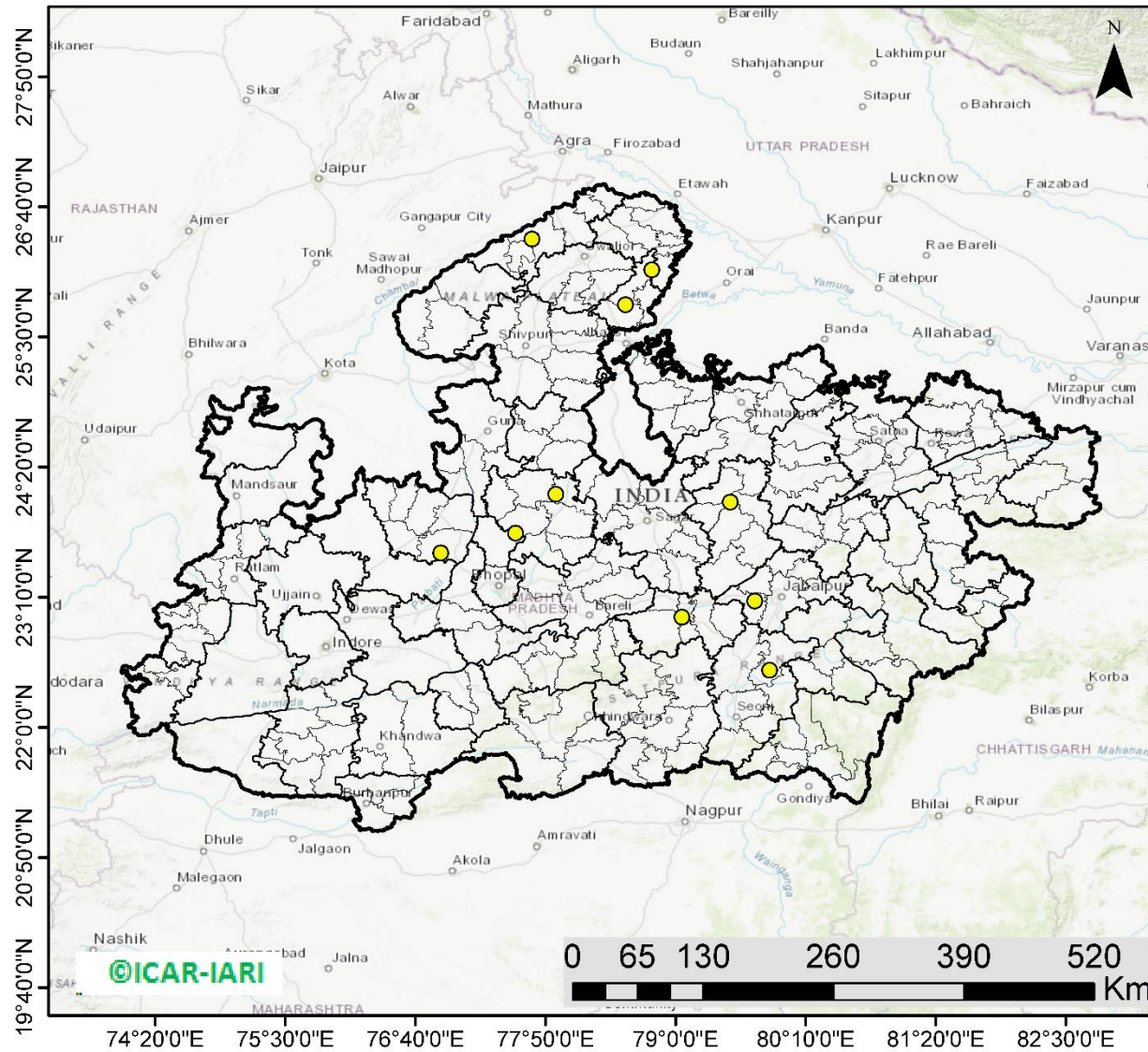
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise cumulative number of residues burning events in Rajasthan (15 Sep - 10 Oct-2021)



Madhya Pradesh

RICE RESIDUE BURNING IN MADHYA PRADESH



10 burning events detected in MP on 10th October 2021

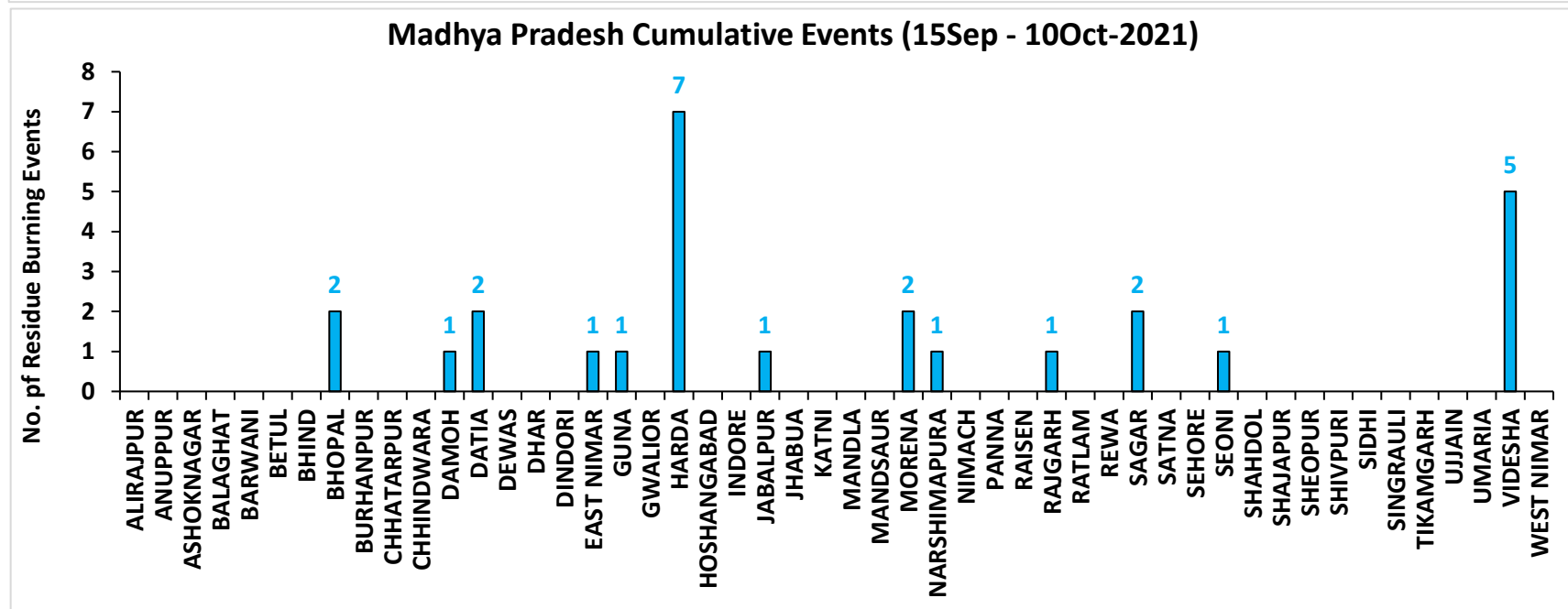
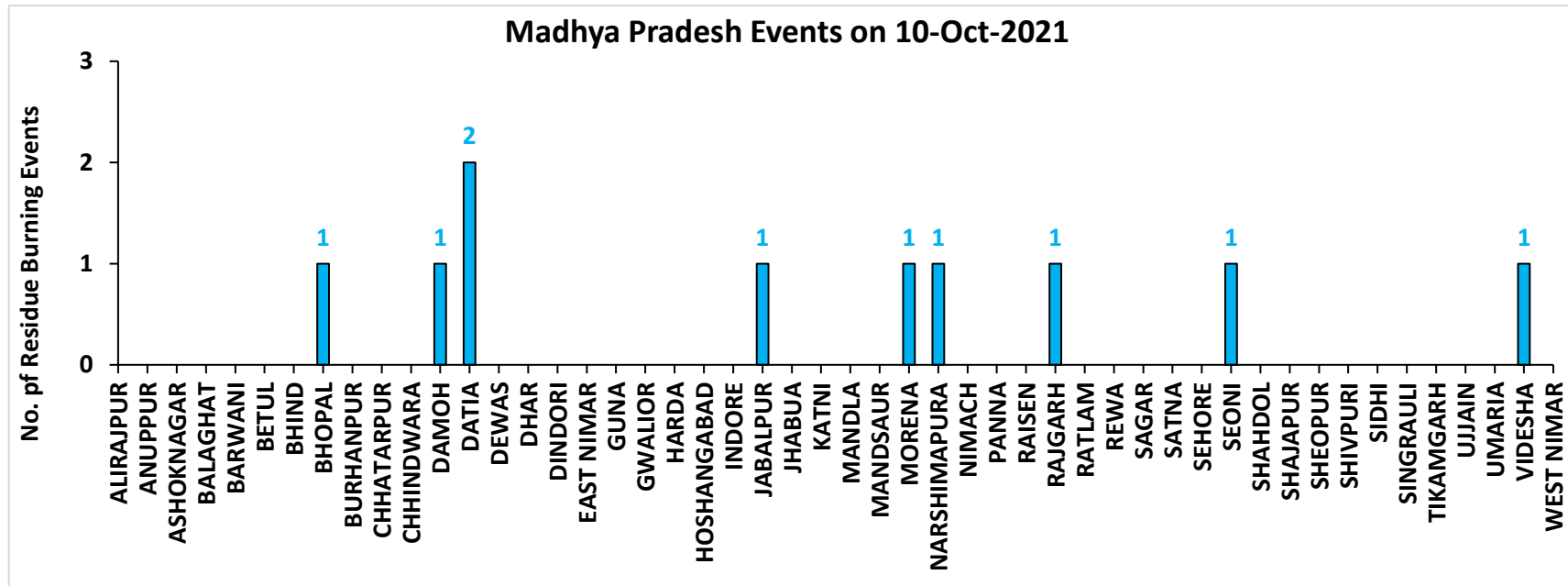
Fire Intensity (W/m²)

- 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 - 10 Oct-2021)



District-wise cumulative number of residues burning events detected in 2020 and 2021
(Period: 15 September - 10 October)

(a) Punjab

District	15 Sep – 10 Oct	
	2020	2021
AMRITSAR	1338	318
BARNALA	5	4
BATHINDA	7	0
FARIDKOT	22	20
FATEHGARH SAHIB	35	28
FAZILKA	2	3
FIROZPUR	76	25
GURDASPUR	118	20
HOSHIARPUR	5	0
JALANDHAR	30	16
KAPURTHALA	44	26
LUDHIANA	67	57
MANSA	6	1
MOGA	19	7
MUKTSAR	2	2
PATHANKOT	0	0
PATIALA	175	62
RUPNAGAR	10	2
SANGRUR	58	9
SAS NAGAR (MOHALI)	14	11
SBS NAGAR	6	2
TARN TARAN	541	151
Total	2580	764

(b) Haryana

District	15 Sep – 10 Oct	
	2020	2021
AMBALA	48	13
BHIWANI	0	0
CHARKHI DADRI	0	0
FARIDABAD	0	1
FATEHABAD	22	5
GURGAON	0	0
HISAR	4	0
JHAJJAR	1	0
JIND	3	6
KAITHAL	45	43
KARNAL	83	69
KURUKSHETRA	71	42
MAHENDRAGARH	0	0
MEWAT	0	0
PALWAL	5	5
PANCHKULA	0	0
PANIPAT	6	2
REWARI	0	0
ROHTAK	0	0
SIRSA	2	0
SONIPAT	6	1
YAMUNANAGAR	25	9
Total	321	196

(c) Uttar Pradesh

District	15 Sep – 10 Oct							
	2020	2021	GAUTAMBUDHNAGAR	1	1	MUZAFARNAGAR	2	0
AGRA	0	0	GAZIPUR	0	0	PILHIBHIT	4	4
ALIGARH	16	2	GHAZIABAD	1	2	PRATAPGARH	0	0
ALLAHABAD	0	0	GONDA	0	0	RAIBEARELI	1	0
AMBEDKARNAGAR	0	0	GORAKHPUR	0	0	RAMPUR	5	14
AMETHI	0	0	HAMIRPUR	0	0	SAMBHAL	6	1
AMROHA	1	0	HAPUR	3	0	SANTKABIRNAGAR	0	0
AURAIYA	12	0	HARDOI	2	3	SANTRAVIDASNAGAR	0	0
AZAMGARH	0	0	HATHRAS	0	0	SHAHJAHANPUR	12	83
BADAUN	0	0	JALAUN	0	0	SHAMLI	17	5
BAGHPAT	1	0	JAUNPUR	0	0	SHARANPUR	14	0
BAHRAICH	2	0	JHANSI	5	0	SHRAWASTI	0	0
BALLIA	0	0	KANNAUJ	2	0	SIDDHARTHANAGAR	0	0
BALRAMPUR	0	0	KANPUR	0	1	SITAPUR	4	1
BANDA	0	0	KANPUR DEHAT	1	0	SONBHADRA	0	0
BARABANKI	7	0	KASGANJ	1	0	SULTANPUR	0	0
BAREILLY	5	4	KAUSHAMBI	6	1	UNNAO	2	0
BASTI	2	0	KHERI	15	14	VARANASI	0	0
BIJNOR	3	1	KUSHINAGAR	0	0	Total	191	150
BULANDSAHAR	3	1	LALITPUR	0	1			
CHANDAULI	0	0	LUCKNOW	2	0			
CHITRAKOOT	0	0	MAHARAJGANJ	0	0			
DEORIA	0	0	MAHOPA	0	0			
ETAH	4	1	MAINPURI	0	2			
ETAWAH	2	3	MATHURA	4	4			
FAIZABAD	0	0	MAU	0	0			
FARRUKHABAD	0	0	MEERUT	9	0			
FATEHPUR	7	0	MIRZAPUR	5	0			
FIROZABAD	1	0	MORADABAD	1	1			

(d) Delhi

District	15 Sep – 10 Oct	
	2020	2021
CENTRAL	0	0
EAST	0	0
NEW DELHI	0	0
NORTH	2	0
NORTH EAST	0	0
NORTH WEST DELHI	0	0
SHAHADRA	0	0
SOUTH	1	0
SOUTH EAST	0	0
SOUTH WEST DELHI	0	0
WEST DELHI	0	0
Total	3	0

(e) Rajasthan

District	15 Sep – 10 Oct	
	2020	2021
AJMER	0	0
ALWAR	1	0
BANSWARA	0	0
BARAN	59	0
BARMER	2	0
BHARATPUR	0	0
BHILWARA	2	0
BIKANER	0	0
BUNDI	1	0
CHITTAURGARH	0	1
CHURU	0	0
DAUSA	0	0
DHOLPUR	0	0
DUNGARPUR	0	0
GANGANAGAR	2	0
HANUMANGARH	32	2
JAIPUR	0	0
JAISELMER	2	0
JALOR	0	0
JHALAWAR	0	0
JHUNJHUNUN	1	0
JODHPUR	1	0
KARAULI	1	0
KOTA	17	0
NAGPUR	0	0
PALI	1	0
PRATAPGARH	0	0
RAJSMAND	0	0
SIKAR	0	0
SIROHI	1	0
SWAIMADHOPUR	1	0
TONK	1	0
UDAIPUR	0	0
Total	125	3

(f) Madhya Pradesh

District	15 Sep – 10 Oct				
	2020	2021			
			PANNA	1	0
ALIRAJPUR	0	0	RAISEN	2	0
ANUPPUR	0	0	RAJGARH	6	1
ASHOKNAGAR	7	0	RATLAM	0	0
BALAGHAT	0	0	REWA	2	0
BARWANI	0	0	SAGAR	9	2
BETUL	0	0	SATNA	3	0
BHIND	0	0	SEHORE	4	0
BHOPAL	2	2	SEONI	2	1
BURHANPUR	0	0	SHAHDOL	0	0
CHHATARPUR	2	0	SHAJAPUR	4	0
CHHINDWARA	0	0	SHEOPUR	3	0
DAMOH	6	1	SHIVPURI	3	0
DATIA	8	2	SIDHI	0	0
DEWAS	3	0	SINGRAULI	0	0
DHAR	15	0	TIKAMGARH	1	0
DINDORI	0	0	UJJAIN	5	0
EAST NIMAR	0	1	UMARIA	0	0
GUNA	8	1	VIDESHA	37	5
GWALIOR	17	0	WEST NIMAR	1	0
HARDA	8	7	Total	178	27
HOSHANGABAD	5	0			
INDORE	2	0			
JABALPUR	6	1			
JHABUA	0	0			
KATNI	0	0			
MANDLA	0	0			
MANDSAUR	0	0			
MORENA	5	2			
NARSHIMAPURA	1	1			
NIMACH	0	0			

State-wise and date-wise number of paddy residue burning events detected in 2020 and 2021
(Period: 15 September – 10 October)

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	1
Total	2580	764	321	196	191	150	3	0	125	3	178	18

Details of residue burning events in Punjab on 10-Oct-2021

S. No.	District	Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	S-NPP	31.98520	74.88200	10/10/2021	13:16:47	D	4.60
2	AMRITSAR	AJNALA	AQUA	31.84700	74.90000	10/10/2021	13:26:11	D	7.70
3	AMRITSAR	ATTARI	S-NPP	31.61350	74.78150	10/10/2021	13:16:47	D	1.30
4	AMRITSAR	CHOGAWAN	S-NPP	31.70430	74.61800	10/10/2021	13:16:47	D	9.80
5	AMRITSAR	CHOGAWAN	S-NPP	31.70510	74.62280	10/10/2021	13:16:47	D	9.80
6	AMRITSAR	CHOGAWAN	S-NPP	31.72630	74.65740	10/10/2021	13:16:47	D	2.50
7	AMRITSAR	JANDIALA GURU	S-NPP	31.56770	75.04940	10/10/2021	13:16:47	D	2.90
8	AMRITSAR	JANDIALA GURU	S-NPP	31.57290	75.05780	10/10/2021	13:16:47	D	4.80
9	AMRITSAR	JANDIALA GURU	S-NPP	31.57330	75.10100	10/10/2021	13:16:47	D	7.30
10	AMRITSAR	JANDIALA GURU	S-NPP	31.57490	75.02840	10/10/2021	13:16:47	D	6.20
11	AMRITSAR	JANDIALA GURU	S-NPP	31.59450	75.07660	10/10/2021	13:16:47	D	4.50
12	AMRITSAR	MAJITHA	S-NPP	31.70170	75.04720	10/10/2021	13:16:47	D	4.60
13	AMRITSAR	MAJITHA	S-NPP	31.73760	74.96380	10/10/2021	13:16:47	D	4.70
14	AMRITSAR	MAJITHA	S-NPP	31.74650	74.95200	10/10/2021	13:16:47	D	5.00
15	AMRITSAR	MAJITHA	S-NPP	31.75180	74.94100	10/10/2021	13:16:47	D	2.30
16	AMRITSAR	MAJITHA	S-NPP	31.75380	74.91130	10/10/2021	13:16:47	D	5.10
17	AMRITSAR	MAJITHA	S-NPP	31.78550	74.98600	10/10/2021	13:16:47	D	4.00
18	AMRITSAR	MAJITHA	S-NPP	31.81040	74.94120	10/10/2021	13:16:47	D	1.80
19	AMRITSAR	MAJITHA	AQUA	31.69200	75.07600	10/10/2021	13:26:11	D	7.90
20	AMRITSAR	MAJITHA	AQUA	31.73900	75.10600	10/10/2021	13:26:11	D	8.10
21	AMRITSAR	RAYYA	S-NPP	31.51240	75.14760	10/10/2021	13:16:47	D	3.40
22	AMRITSAR	RAYYA	S-NPP	31.52400	75.19260	10/10/2021	13:16:47	D	9.90
23	AMRITSAR	RAYYA	S-NPP	31.52750	75.19170	10/10/2021	13:16:47	D	9.90
24	AMRITSAR	RAYYA	S-NPP	31.53010	75.12420	10/10/2021	13:16:47	D	2.90
25	AMRITSAR	RAYYA	S-NPP	31.53930	75.15550	10/10/2021	13:16:47	D	3.30
26	AMRITSAR	RAYYA	S-NPP	31.53960	75.15700	10/10/2021	13:16:47	D	3.30
27	AMRITSAR	RAYYA	S-NPP	31.54490	75.14610	10/10/2021	13:16:47	D	5.10
28	AMRITSAR	RAYYA	S-NPP	31.58600	75.27410	10/10/2021	13:16:47	D	7.40
29	AMRITSAR	RAYYA	S-NPP	31.63570	75.24800	10/10/2021	13:16:47	D	1.00

30	AMRITSAR	RAYYA	AQUA	31.54100	75.15200	10/10/2021	13:26:11	D	18.10
31	AMRITSAR	RAYYA	AQUA	31.55400	75.28500	10/10/2021	13:26:11	D	9.70
32	AMRITSAR	TARSIKKA	S-NPP	31.58930	75.14980	10/10/2021	13:16:47	D	5.80
33	AMRITSAR	TARSIKKA	S-NPP	31.59280	75.14890	10/10/2021	13:16:47	D	5.80
34	AMRITSAR	TARSIKKA	S-NPP	31.63310	75.19170	10/10/2021	13:16:47	D	8.00
35	AMRITSAR	TARSIKKA	S-NPP	31.63570	75.12420	10/10/2021	13:16:47	D	2.70
36	AMRITSAR	TARSIKKA	S-NPP	31.68050	75.15300	10/10/2021	13:16:47	D	2.50
37	AMRITSAR	TARSIKKA	AQUA	31.59400	75.16000	10/10/2021	13:26:11	D	7.60
38	AMRITSAR	TARSIKKA	AQUA	31.59600	75.17300	10/10/2021	13:26:11	D	21.80
39	AMRITSAR	VERKA	S-NPP	31.72130	74.91440	10/10/2021	13:16:47	D	9.00
40	BARNALA	BARNALA	S-NPP	30.37080	75.59540	10/10/2021	13:16:47	D	3.50
41	BARNALA	SEHNA	S-NPP	30.48840	75.35850	10/10/2021	13:16:47	D	14.40
42	FARIDKOT	FARIDKOT	S-NPP	30.74050	74.61910	10/10/2021	13:16:47	D	4.50
43	FARIDKOT	FARIDKOT	S-NPP	30.74410	74.63860	10/10/2021	13:16:47	D	3.70
44	FARIDKOT	FARIDKOT	AQUA	30.73600	74.61900	10/10/2021	13:26:11	D	16.00
45	FARIDKOT	KOT KAPURA	S-NPP	30.57600	74.77080	10/10/2021	13:16:47	D	3.10
46	FATEHGARH SAHIB	AMLOH	S-NPP	30.58140	76.26470	10/10/2021	13:16:47	D	2.40
47	FATEHGARH SAHIB	AMLOH	S-NPP	30.62510	76.21020	10/10/2021	13:16:47	D	6.90
48	FATEHGARH SAHIB	KHAMANON	S-NPP	30.74860	76.31640	10/10/2021	13:16:47	D	8.00
49	FATEHGARH SAHIB	KHAMANON	S-NPP	30.75200	76.31560	10/10/2021	13:16:47	D	3.60
50	FATEHGARH SAHIB	KHAMANON	S-NPP	30.75630	76.34120	10/10/2021	13:16:47	D	4.30
51	FATEHGARH SAHIB	KHAMANON	S-NPP	30.75700	76.34550	10/10/2021	13:16:47	D	4.30
52	FATEHGARH SAHIB	KHAMANON	S-NPP	30.77190	76.31190	10/10/2021	13:16:47	D	11.70
53	FATEHGARH SAHIB	KHAMANON	S-NPP	30.78620	76.31310	10/10/2021	13:16:47	D	4.50
54	FATEHGARH SAHIB	KHAMANON	S-NPP	30.85760	76.31890	10/10/2021	13:16:47	D	2.00
55	FATEHGARH SAHIB	KHAMANON	AQUA	30.85100	76.32100	10/10/2021	13:26:11	D	8.30
56	FATEHGARH SAHIB	SIRHIND	S-NPP	30.46710	76.35560	10/10/2021	13:16:47	D	4.60
57	FIROZPUR	FIROZPUR	S-NPP	31.01340	74.73280	10/10/2021	13:16:47	D	5.90
58	FIROZPUR	FIROZPUR	AQUA	31.01600	74.74000	10/10/2021	13:26:11	D	10.40
59	FIROZPUR	GHALL KHURD	S-NPP	30.92950	74.70310	10/10/2021	13:16:47	D	5.20
60	FIROZPUR	GHALL KHURD	AQUA	30.95900	74.66500	10/10/2021	13:26:11	D	7.80
61	FIROZPUR	GHALL KHURD	AQUA	30.96200	74.67900	10/10/2021	13:26:11	D	7.90
62	FIROZPUR	GURUHAR SAHAI	AQUA	30.77200	74.35800	10/10/2021	13:26:11	D	19.40

63	FIROZPUR	MAMDOT	AQUA	30.81500	74.47100	10/10/2021	13:26:11	D	19.60
64	GURDASPUR	BATALA	S-NPP	31.76330	75.19010	10/10/2021	13:16:47	D	3.10
65	GURDASPUR	BATALA	S-NPP	31.76340	75.18770	10/10/2021	13:16:47	D	3.10
66	GURDASPUR	DHARIWAL	S-NPP	31.92150	75.17910	10/10/2021	13:16:47	D	12.90
67	GURDASPUR	FATEHGARH CHURIAN	S-NPP	31.84780	75.01070	10/10/2021	13:16:47	D	3.30
68	GURDASPUR	KALANAUR	S-NPP	31.93410	75.20920	10/10/2021	13:16:47	D	2.40
69	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.67520	75.37040	10/10/2021	13:16:47	D	5.70
70	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.70320	75.40240	10/10/2021	13:16:47	D	8.00
71	GURDASPUR	SRI HARGOBINDPUR	S-NPP	31.73750	75.35210	10/10/2021	13:16:47	D	3.40
72	JALANDHAR	BHOGPUR	S-NPP	31.49860	75.71120	10/10/2021	13:16:47	D	1.40
73	JALANDHAR	BHOGPUR	S-NPP	31.50700	75.71830	10/10/2021	13:16:47	D	4.70
74	JALANDHAR	LOHIAN	S-NPP	31.11550	75.20440	10/10/2021	13:16:47	D	12.80
75	JALANDHAR	LOHIAN	S-NPP	31.11560	75.20280	10/10/2021	13:16:47	D	8.70
76	JALANDHAR	SHAHKOT	AQUA	31.04500	75.26600	10/10/2021	13:26:11	D	7.00
77	KAPURTHALA	DHILWAN	S-NPP	31.46830	75.26770	10/10/2021	13:16:47	D	4.90
78	KAPURTHALA	KAPURTHALA	S-NPP	31.42840	75.43150	10/10/2021	13:16:47	D	2.80
79	KAPURTHALA	NADALA	AQUA	31.58300	75.39900	10/10/2021	13:26:11	D	5.80
80	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.26580	75.15060	10/10/2021	13:16:47	D	4.10
81	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.26660	75.15520	10/10/2021	13:16:47	D	4.40
82	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.34360	75.26080	10/10/2021	13:16:47	D	2.70
83	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.34680	75.25770	10/10/2021	13:16:47	D	2.50
84	KAPURTHALA	SULTANPUR LODHI	S-NPP	31.35980	75.18790	10/10/2021	13:16:47	D	7.90
85	KAPURTHALA	SULTANPUR LODHI	AQUA	31.25100	75.14300	10/10/2021	13:26:11	D	13.20
86	LUDHIANA	MACHHIWARA	S-NPP	30.85360	76.15200	10/10/2021	13:16:47	D	2.70
87	LUDHIANA	MACHHIWARA	S-NPP	30.85380	76.27550	10/10/2021	13:16:47	D	4.30
88	LUDHIANA	MACHHIWARA	S-NPP	30.86730	76.10850	10/10/2021	13:16:47	D	2.20
89	LUDHIANA	MACHHIWARA	S-NPP	30.87860	76.29740	10/10/2021	13:16:47	D	10.50
90	LUDHIANA	MACHHIWARA	S-NPP	30.97100	76.30290	10/10/2021	13:16:47	D	8.10
91	LUDHIANA	PAKHOWAL	S-NPP	30.67920	75.73720	10/10/2021	13:16:47	D	4.70
92	LUDHIANA	PAKHOWAL	AQUA	30.68300	75.73800	10/10/2021	13:26:11	D	8.30
93	LUDHIANA	RAIKOT	S-NPP	30.59780	75.56450	10/10/2021	13:16:47	D	4.50
94	LUDHIANA	SAMRALA	S-NPP	30.75530	76.23580	10/10/2021	13:16:47	D	2.90
95	LUDHIANA	SAMRALA	S-NPP	30.77570	76.23110	10/10/2021	13:16:47	D	2.30

96	LUDHIANA	SAMRALA	S-NPP	30.77810	76.20390	10/10/2021	13:16:47	D	5.40
97	LUDHIANA	SAMRALA	S-NPP	30.78150	76.20310	10/10/2021	13:16:47	D	5.40
98	LUDHIANA	SAMRALA	S-NPP	30.84540	76.18400	10/10/2021	13:16:47	D	5.90
99	LUDHIANA	SAMRALA	AQUA	30.77400	76.21400	10/10/2021	13:26:11	D	25.20
100	LUDHIANA	SAMRALA	AQUA	30.77800	76.17600	10/10/2021	13:26:11	D	5.60
101	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	30.98970	75.31280	10/10/2021	13:16:47	D	2.20
102	MOGA	KOT ISE KHAN AT DHARAMKOT	S-NPP	31.06600	75.10880	10/10/2021	13:16:47	D	3.40
103	MOGA	MOGA-1	S-NPP	30.72220	75.20050	10/10/2021	13:16:47	D	6.50
104	MOGA	MOGA-1	S-NPP	30.73040	75.16470	10/10/2021	13:16:47	D	8.30
105	MUKTSAR	KOT BHAI AT GIDDERBAHA	S-NPP	30.39070	74.70260	10/10/2021	13:16:47	D	4.10
106	PATIALA	BHUNARHERI	S-NPP	30.18830	76.59580	10/10/2021	13:16:47	D	3.80
107	PATIALA	BHUNARHERI	S-NPP	30.22820	76.49930	10/10/2021	13:16:47	D	5.20
108	PATIALA	PATIALA	S-NPP	30.31020	76.31830	10/10/2021	13:16:47	D	3.20
109	PATIALA	PATIALA	S-NPP	30.39850	76.42750	10/10/2021	13:16:47	D	3.50
110	PATIALA	PATIALA	S-NPP	30.46640	76.35130	10/10/2021	13:16:47	D	4.60
111	PATIALA	PATRAN	S-NPP	29.84470	76.20480	10/10/2021	13:16:47	D	1.90
112	PATIALA	PATRAN	S-NPP	29.84810	76.20400	10/10/2021	13:16:47	D	10.90
113	PATIALA	PATRAN	S-NPP	29.85990	76.21040	10/10/2021	13:16:47	D	6.40
114	PATIALA	PATRAN	S-NPP	29.89670	76.06270	10/10/2021	13:16:47	D	3.30
115	PATIALA	RAJPURA	S-NPP	30.50030	76.55040	10/10/2021	13:16:47	D	10.00
116	PATIALA	RAJPURA	S-NPP	30.51520	76.74270	10/10/2021	13:16:47	D	2.80
117	PATIALA	RAJPURA	S-NPP	30.51760	76.69450	10/10/2021	13:16:47	D	2.40
118	PATIALA	RAJPURA	S-NPP	30.53210	76.55200	10/10/2021	13:16:47	D	2.00
119	PATIALA	RAJPURA	S-NPP	30.57930	76.64610	10/10/2021	13:16:47	D	1.90
120	PATIALA	RAJPURA	AQUA	30.52500	76.55700	10/10/2021	13:26:11	D	7.50
121	PATIALA	SAMANA	S-NPP	30.15040	76.22860	10/10/2021	13:16:47	D	5.20
122	SBS NAGAR	NAWAN SHAHR	S-NPP	31.05200	76.20160	10/10/2021	13:16:47	D	4.40
123	TARN TARAN	BHIKHIWIND	S-NPP	31.36040	74.73940	10/10/2021	13:16:47	D	5.80
124	TARN TARAN	BHIKHIWIND	S-NPP	31.36180	74.74070	10/10/2021	13:16:47	D	6.60
125	TARN TARAN	BHIKHIWIND	S-NPP	31.39120	74.69860	10/10/2021	13:16:47	D	3.10
126	TARN TARAN	CHOHLA SAHIB	AQUA	31.38100	75.06400	10/10/2021	13:26:11	D	11.80
127	TARN TARAN	GANDIWIND TATLA	S-NPP	31.54630	74.76670	10/10/2021	13:16:47	D	2.80

128	TARN TARAN	GANDIWIND TATLA	AQUA	31.50000	74.62900	10/10/2021	13:26:11	D	8.20
129	TARN TARAN	GANDIWIND TATLA	AQUA	31.54800	74.72000	10/10/2021	13:26:11	D	9.00
130	TARN TARAN	KHADUR SAHIB	S-NPP	31.38850	75.12350	10/10/2021	13:16:47	D	2.60
131	TARN TARAN	KHADUR SAHIB	S-NPP	31.43800	75.09850	10/10/2021	13:16:47	D	2.80
132	TARN TARAN	KHADUR SAHIB	S-NPP	31.43880	75.10310	10/10/2021	13:16:47	D	2.80
133	TARN TARAN	KHADUR SAHIB	S-NPP	31.45060	75.14820	10/10/2021	13:16:47	D	2.10
134	TARN TARAN	KHADUR SAHIB	S-NPP	31.45920	75.07410	10/10/2021	13:16:47	D	3.30
135	TARN TARAN	KHADUR SAHIB	S-NPP	31.45970	75.01600	10/10/2021	13:16:47	D	3.00
136	TARN TARAN	KHADUR SAHIB	S-NPP	31.46230	75.11180	10/10/2021	13:16:47	D	3.40
137	TARN TARAN	KHADUR SAHIB	S-NPP	31.47300	75.09000	10/10/2021	13:16:47	D	2.10
138	TARN TARAN	KHADUR SAHIB	S-NPP	31.48060	75.11220	10/10/2021	13:16:47	D	6.90
139	TARN TARAN	KHADUR SAHIB	S-NPP	31.48220	75.12140	10/10/2021	13:16:47	D	5.10
140	TARN TARAN	KHADUR SAHIB	S-NPP	31.51580	75.08440	10/10/2021	13:16:47	D	3.90
141	TARN TARAN	KHADUR SAHIB	S-NPP	31.51730	75.17510	10/10/2021	13:16:47	D	2.90
142	TARN TARAN	NAUSHERA PANNUAN	S-NPP	31.34660	74.93020	10/10/2021	13:16:47	D	2.10
143	TARN TARAN	NAUSHERA PANNUAN	AQUA	31.38500	75.02800	10/10/2021	13:26:11	D	23.00
144	TARN TARAN	PATTI	S-NPP	31.25980	74.81860	10/10/2021	13:16:47	D	1.70
145	TARN TARAN	TARN TARAN	S-NPP	31.40940	74.79840	10/10/2021	13:16:47	D	8.50
146	TARN TARAN	TARN TARAN	S-NPP	31.42480	75.00510	10/10/2021	13:16:47	D	3.40
147	TARN TARAN	TARN TARAN	S-NPP	31.45290	74.89590	10/10/2021	13:16:47	D	6.70
148	TARN TARAN	TARN TARAN	S-NPP	31.45960	74.83050	10/10/2021	13:16:47	D	2.30
149	TARN TARAN	TARN TARAN	AQUA	31.40700	74.79500	10/10/2021	13:26:11	D	7.80
150	TARN TARAN	TARN TARAN	AQUA	31.49300	74.99700	10/10/2021	13:26:11	D	11.80

Details of residue burning events in Haryana on 10-Oct-2021

S. No.	District	Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA-I	S-NPP	30.33690	76.78940	10/10/2021	13:16:47	D	2.80
2	AMBALA	AMBALA-II	S-NPP	30.10130	76.64090	10/10/2021	13:16:47	D	2.00
3	AMBALA	AMBALA-II	S-NPP	30.12070	76.61040	10/10/2021	13:16:47	D	9.00
4	AMBALA	AMBALA-II	S-NPP	30.20720	76.76980	10/10/2021	13:16:47	D	1.70
5	AMBALA	BARARA	S-NPP	30.17130	77.01790	10/10/2021	13:16:47	D	3.30
6	AMBALA	BARARA	S-NPP	30.33520	77.16540	10/10/2021	13:16:47	D	4.20
7	AMBALA	BARARA	AQUA	30.18500	76.96000	10/10/2021	13:26:11	D	6.30
8	AMBALA	SAHA	S-NPP	30.31900	76.98170	10/10/2021	13:16:47	D	7.30
9	FARIDABAD	FARIDABAD	S-NPP	28.42660	77.41110	10/10/2021	13:16:47	D	2.10
10	FATEHABAD	TOHANA	S-NPP	29.67130	75.89670	10/10/2021	13:16:47	D	7.80
11	JIND	ALEWA	S-NPP	29.43760	76.39050	10/10/2021	13:16:47	D	3.50
12	JIND	PILLUKHERA	S-NPP	29.41650	76.47530	10/10/2021	13:16:47	D	1.80
13	JIND	SAFIDON	S-NPP	29.40460	76.57070	10/10/2021	13:16:47	D	3.40
14	JIND	SAFIDON	S-NPP	29.40800	76.56990	10/10/2021	13:16:47	D	3.40
15	KAITHAL	GUHLA	S-NPP	29.97740	76.28320	10/10/2021	13:16:47	D	3.60
16	KAITHAL	GUHLA	S-NPP	29.97760	76.24290	10/10/2021	13:16:47	D	4.10
17	KAITHAL	GUHLA	S-NPP	30.05330	76.31690	10/10/2021	13:16:47	D	5.90
18	KAITHAL	GUHLA	S-NPP	30.07860	76.25760	10/10/2021	13:16:47	D	3.10
19	KAITHAL	GUHLA	S-NPP	30.08210	76.25680	10/10/2021	13:16:47	D	3.30
20	KAITHAL	GUHLA	AQUA	29.97700	76.24800	10/10/2021	13:26:11	D	6.70
21	KAITHAL	GUHLA	AQUA	30.08000	76.25700	10/10/2021	13:26:11	D	6.70
22	KAITHAL	KAITHAL	S-NPP	29.75830	76.37990	10/10/2021	13:16:47	D	4.30
23	KAITHAL	KAITHAL	S-NPP	29.83890	76.54400	10/10/2021	13:16:47	D	9.30
24	KAITHAL	KAITHAL	S-NPP	29.85380	76.52750	10/10/2021	13:16:47	D	2.40
25	KAITHAL	KAITHAL	S-NPP	29.90040	76.49070	10/10/2021	13:16:47	D	2.30
26	KAITHAL	KAITHAL	AQUA	29.81300	76.25900	10/10/2021	13:26:11	D	10.00
27	KAITHAL	KAITHAL	AQUA	29.82900	76.29400	10/10/2021	13:26:11	D	6.20
28	KAITHAL	KAITHAL	AQUA	29.83100	76.30600	10/10/2021	13:26:11	D	6.60
29	KAITHAL	KAITHAL	AQUA	29.83200	76.30000	10/10/2021	13:26:11	D	13.80
30	KAITHAL	PUNDRI	S-NPP	29.75450	76.54440	10/10/2021	13:16:47	D	1.90
31	KAITHAL	PUNDRI	S-NPP	29.80090	76.63060	10/10/2021	13:16:47	D	2.80

32	KAITHAL	PUNDRI	AQUA	29.83600	76.63800	10/10/2021	13:26:11	D	6.90
33	KAITHAL	RAJOUND	S-NPP	29.64560	76.56360	10/10/2021	13:16:47	D	3.20
34	KAITHAL	SIWAN	S-NPP	29.83620	76.30090	10/10/2021	13:16:47	D	2.30
35	KAITHAL	SIWAN	S-NPP	29.88510	76.31670	10/10/2021	13:16:47	D	2.10
36	KAITHAL	SIWAN	S-NPP	29.89290	76.22620	10/10/2021	13:16:47	D	7.50
37	KAITHAL	SIWAN	S-NPP	29.90020	76.20650	10/10/2021	13:16:47	D	6.20
38	KAITHAL	SIWAN	AQUA	29.84700	76.27100	10/10/2021	13:26:11	D	19.20
39	KAITHAL	SIWAN	AQUA	29.88400	76.31300	10/10/2021	13:26:11	D	6.70
40	KARNAL	ASSANDH	S-NPP	29.50040	76.80300	10/10/2021	13:16:47	D	2.10
41	KARNAL	ASSANDH	S-NPP	29.58650	76.56630	10/10/2021	13:16:47	D	2.60
42	KARNAL	ASSANDH	S-NPP	29.59460	76.63480	10/10/2021	13:16:47	D	2.80
43	KARNAL	CHIRAO	S-NPP	29.59960	76.89430	10/10/2021	13:16:47	D	2.90
44	KARNAL	CHIRAO	S-NPP	29.72120	76.76100	10/10/2021	13:16:47	D	4.00
45	KARNAL	CHIRAO	S-NPP	29.72190	76.76510	10/10/2021	13:16:47	D	3.70
46	KARNAL	CHIRAO	S-NPP	29.73120	76.73700	10/10/2021	13:16:47	D	4.00
47	KARNAL	CHIRAO	S-NPP	29.74040	76.70940	10/10/2021	13:16:47	D	3.60
48	KARNAL	CHIRAO	S-NPP	29.74110	76.71360	10/10/2021	13:16:47	D	3.60
49	KARNAL	CHIRAO	S-NPP	29.74130	76.71310	10/10/2021	13:16:47	D	6.50
50	KARNAL	GHARAUNDA	S-NPP	29.52690	76.98270	10/10/2021	13:16:47	D	2.80
51	KARNAL	GHARAUNDA	S-NPP	29.54430	76.94020	10/10/2021	13:16:47	D	5.20
52	KARNAL	GHARAUNDA	S-NPP	29.55130	77.02450	10/10/2021	13:16:47	D	2.70
53	KARNAL	GHARAUNDA	S-NPP	29.56040	76.93240	10/10/2021	13:16:47	D	3.20
54	KARNAL	GHARAUNDA	S-NPP	29.56060	76.93290	10/10/2021	13:16:47	D	4.00
55	KARNAL	GHARAUNDA	S-NPP	29.56330	76.99190	10/10/2021	13:16:47	D	5.20
56	KARNAL	GHARAUNDA	S-NPP	29.56960	77.07180	10/10/2021	13:16:47	D	1.70
57	KARNAL	GHARAUNDA	S-NPP	29.57990	76.88140	10/10/2021	13:16:47	D	2.80
58	KARNAL	GHARAUNDA	S-NPP	29.58270	77.02250	10/10/2021	13:16:47	D	1.80
59	KARNAL	GHARAUNDA	S-NPP	29.59270	76.99890	10/10/2021	13:16:47	D	3.00
60	KARNAL	INDRI	S-NPP	29.81900	77.13490	10/10/2021	13:16:47	D	3.20
61	KARNAL	INDRI	S-NPP	29.91460	77.01240	10/10/2021	13:16:47	D	3.80
62	KARNAL	INDRI	S-NPP	29.92970	77.10290	10/10/2021	13:16:47	D	4.40
63	KARNAL	KARNAL	S-NPP	29.63170	76.98190	10/10/2021	13:16:47	D	2.40
64	KARNAL	KARNAL	S-NPP	29.63510	77.00250	10/10/2021	13:16:47	D	6.90
65	KARNAL	KARNAL	S-NPP	29.63990	77.01010	10/10/2021	13:16:47	D	5.00
66	KARNAL	KARNAL	S-NPP	29.66700	77.11090	10/10/2021	13:16:47	D	1.50

67	KARNAL	KARNAL	S-NPP	29.77360	77.05500	10/10/2021	13:16:47	D	7.30
68	KARNAL	KARNAL	AQUA	29.63800	77.00900	10/10/2021	13:26:11	D	7.60
69	KARNAL	KARNAL	AQUA	29.79600	77.02200	10/10/2021	13:26:11	D	13.50
70	KARNAL	NILOKHERI	S-NPP	29.80770	76.73370	10/10/2021	13:16:47	D	3.00
71	KARNAL	NILOKHERI	S-NPP	29.84950	76.83710	10/10/2021	13:16:47	D	3.60
72	KARNAL	NILOKHERI	S-NPP	29.86570	76.82920	10/10/2021	13:16:47	D	5.60
73	KARNAL	NILOKHERI	S-NPP	29.88300	76.88640	10/10/2021	13:16:47	D	2.50
74	KURUKSHETRA	BABAIN	S-NPP	30.04160	76.99790	10/10/2021	13:16:47	D	4.00
75	KURUKSHETRA	BABAIN	S-NPP	30.04690	76.98820	10/10/2021	13:16:47	D	4.00
76	KURUKSHETRA	BABAIN	S-NPP	30.06040	77.00670	10/10/2021	13:16:47	D	1.70
77	KURUKSHETRA	LADWA	S-NPP	29.95080	77.00030	10/10/2021	13:16:47	D	2.20
78	KURUKSHETRA	SHAHBAD	S-NPP	30.12340	76.81380	10/10/2021	13:16:47	D	3.10
79	KURUKSHETRA	SHAHBAD	S-NPP	30.12890	76.82560	10/10/2021	13:16:47	D	8.40
80	KURUKSHETRA	SHAHBAD	S-NPP	30.19790	76.92650	10/10/2021	13:16:47	D	4.30
81	KURUKSHETRA	SHAHBAD	AQUA	30.17100	76.81000	10/10/2021	13:26:11	D	7.90
82	KURUKSHETRA	THANESAR	S-NPP	29.89340	76.71980	10/10/2021	13:16:47	D	3.90
83	KURUKSHETRA	THANESAR	S-NPP	29.89680	76.71910	10/10/2021	13:16:47	D	3.90
84	KURUKSHETRA	THANESAR	S-NPP	29.90990	76.75520	10/10/2021	13:16:47	D	4.20
85	KURUKSHETRA	THANESAR	S-NPP	29.92600	76.85110	10/10/2021	13:16:47	D	14.10
86	KURUKSHETRA	THANESAR	S-NPP	30.02510	76.89870	10/10/2021	13:16:47	D	5.40
87	KURUKSHETRA	THANESAR	S-NPP	30.05900	76.80940	10/10/2021	13:16:47	D	2.50
88	KURUKSHETRA	THANESAR	AQUA	30.02500	76.89500	10/10/2021	13:26:11	D	7.50
89	PALWAL	PALWAL	S-NPP	28.12940	77.37080	10/10/2021	13:16:47	D	3.50
90	PALWAL	PALWAL	S-NPP	28.13410	77.37820	10/10/2021	13:16:47	D	3.20
91	YAMUNANAGAR	JAGADHRI	S-NPP	30.19440	77.30540	10/10/2021	13:16:47	D	2.00
92	YAMUNANAGAR	RADAUR	S-NPP	29.99000	77.15360	10/10/2021	13:16:47	D	3.50
93	YAMUNANAGAR	RADAUR	S-NPP	30.01610	77.12250	10/10/2021	13:16:47	D	1.90
94	YAMUNANAGAR	RADAUR	S-NPP	30.06670	77.08630	10/10/2021	13:16:47	D	2.20
95	YAMUNANAGAR	SADHAURA	S-NPP	30.35860	77.18150	10/10/2021	13:16:47	D	3.30

Details of residue burning events in Uttar Pradesh on 10-Oct-2021

S. No.	District	Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	ALIGARH	ATRAULI	S-NPP	27.95450	78.27170	10/10/2021	13:16:47	D	2.30
2	ALIGARH	KOL	S-NPP	27.81460	78.18510	10/10/2021	13:16:47	D	4.10
3	BAREILLY	BAHERI	S-NPP	28.83240	79.61750	10/10/2021	13:16:47	D	3.60
4	BAREILLY	NAWABGANJ	S-NPP	28.51340	79.65660	10/10/2021	13:16:47	D	2.20
5	BAREILLY	NAWABGANJ	S-NPP	28.54120	79.68370	10/10/2021	13:16:47	D	4.50
6	BIJNOR	CHANDPUR	S-NPP	29.12060	78.09860	10/10/2021	13:16:47	D	2.20
7	BULANDSAHAR	SHIKARPUR	S-NPP	28.26410	78.08680	10/10/2021	13:16:47	D	1.60
8	ETAH	JALESAR	AQUA	27.58200	78.33400	10/10/2021	13:26:11	D	8.80
9	ETAWAH	ETAWAH	S-NPP	26.90680	79.13040	10/10/2021	13:16:47	D	2.20
10	ETAWAH	ETAWAH	S-NPP	26.91010	79.12970	10/10/2021	13:16:47	D	3.80
11	ETAWAH	ETAWAH	S-NPP	26.98540	79.15500	10/10/2021	13:16:47	D	3.40
12	GHAZIABAD	GHAZIABAD	S-NPP	28.81390	77.25120	10/10/2021	13:16:47	D	1.70
13	HARDOI	BILGRAM	S-NPP	27.00720	80.21560	10/10/2021	13:16:47	D	3.80
14	HARDOI	BILGRAM	S-NPP	27.07450	80.14720	10/10/2021	13:16:47	D	2.10
15	HARDOI	BILGRAM	S-NPP	27.08930	80.13260	10/10/2021	13:16:47	D	1.90
16	KAUSHAMBI	SIRATHU	S-NPP	25.60510	81.36470	10/10/2021	13:16:47	D	2.10
17	KHERI	GOLA	S-NPP	28.20540	80.48970	10/10/2021	13:16:47	D	2.40
18	KHERI	MOHMADI	S-NPP	27.73930	80.39710	10/10/2021	13:16:47	D	2.20
19	KHERI	MOHMADI	S-NPP	27.87280	80.26410	10/10/2021	13:16:47	D	2.70
20	KHERI	MOHMADI	S-NPP	27.87610	80.26350	10/10/2021	13:16:47	D	2.70
21	KHERI	MOHMADI	S-NPP	27.90000	80.38100	10/10/2021	13:16:47	D	5.30
22	KHERI	MOHMADI	S-NPP	27.99560	80.13220	10/10/2021	13:16:47	D	4.70
23	KHERI	MOHMADI	S-NPP	28.05160	80.28860	10/10/2021	13:16:47	D	2.40
24	KHERI	MOHMADI	S-NPP	28.11100	80.27370	10/10/2021	13:16:47	D	2.20
25	KHERI	MOHMADI	S-NPP	28.12660	80.28710	10/10/2021	13:16:47	D	3.30
26	MAINPURI	BHOGAON	AQUA	27.08000	79.15200	10/10/2021	13:26:11	D	6.40
27	MATHURA	CHHATA	S-NPP	27.78540	77.68830	10/10/2021	13:16:47	D	2.00
28	MORADABAD	BILARI	S-NPP	28.71360	78.72000	10/10/2021	13:16:47	D	5.00
29	PILHIBHIT	PILHIBHIT	S-NPP	28.77980	79.83430	10/10/2021	13:16:47	D	1.60

30	PILHIBHIT	PURANPUR	S-NPP	28.35670	80.18060	10/10/2021	13:16:47	D	3.50
31	RAMPUR	BILASPUR	S-NPP	28.82420	79.31170	10/10/2021	13:16:47	D	1.50
32	RAMPUR	BILASPUR	S-NPP	28.88750	79.19440	10/10/2021	13:16:47	D	9.10
33	RAMPUR	BILASPUR	S-NPP	28.90370	79.32460	10/10/2021	13:16:47	D	1.60
34	RAMPUR	BILASPUR	AQUA	28.91400	79.34200	10/10/2021	13:26:11	D	6.10
35	RAMPUR	TANDA	S-NPP	28.92800	78.98530	10/10/2021	02:06:47	N	1.10
36	SHAHJAHANPUR	PUWANYA	S-NPP	28.01410	80.10070	10/10/2021	13:16:47	D	2.50
37	SHAHJAHANPUR	PUWANYA	S-NPP	28.07050	80.18350	10/10/2021	13:16:47	D	2.50
38	SHAHJAHANPUR	PUWANYA	S-NPP	28.09880	80.19050	10/10/2021	13:16:47	D	3.70
39	SHAHJAHANPUR	PUWANYA	S-NPP	28.09900	80.12150	10/10/2021	13:16:47	D	2.30
40	SHAHJAHANPUR	PUWANYA	S-NPP	28.10230	80.12090	10/10/2021	13:16:47	D	5.50
41	SHAHJAHANPUR	PUWANYA	S-NPP	28.11460	80.22820	10/10/2021	13:16:47	D	0.80
42	SHAHJAHANPUR	PUWANYA	S-NPP	28.11710	80.11400	10/10/2021	13:16:47	D	3.20
43	SHAHJAHANPUR	PUWANYA	S-NPP	28.15610	80.14740	10/10/2021	13:16:47	D	2.80
44	SHAHJAHANPUR	PUWANYA	S-NPP	28.16350	80.17450	10/10/2021	13:16:47	D	16.10
45	SHAHJAHANPUR	PUWANYA	S-NPP	28.17000	80.14890	10/10/2021	13:16:47	D	2.80
46	SHAHJAHANPUR	PUWANYA	S-NPP	28.27700	80.18700	10/10/2021	13:16:47	D	3.70
47	SHAHJAHANPUR	PUWANYA	S-NPP	28.27760	80.19100	10/10/2021	13:16:47	D	3.70
48	SHAHJAHANPUR	PUWANYA	S-NPP	28.27820	80.19500	10/10/2021	13:16:47	D	4.00
49	SHAHJAHANPUR	PUWANYA	AQUA	28.28000	80.19300	10/10/2021	13:26:11	D	7.00
50	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	27.88610	79.87430	10/10/2021	13:16:47	D	3.70
51	SHAHJAHANPUR	TILHAR	S-NPP	27.95210	79.72560	10/10/2021	13:16:47	D	2.00
52	SHAHJAHANPUR	TILHAR	S-NPP	27.95810	79.72050	10/10/2021	13:16:47	D	4.10
53	SHAMLI	KAIRANA	S-NPP	29.54290	77.16280	10/10/2021	13:16:47	D	1.90
54	SHAMLI	KAIRANA	S-NPP	29.55160	77.15240	10/10/2021	13:16:47	D	2.20

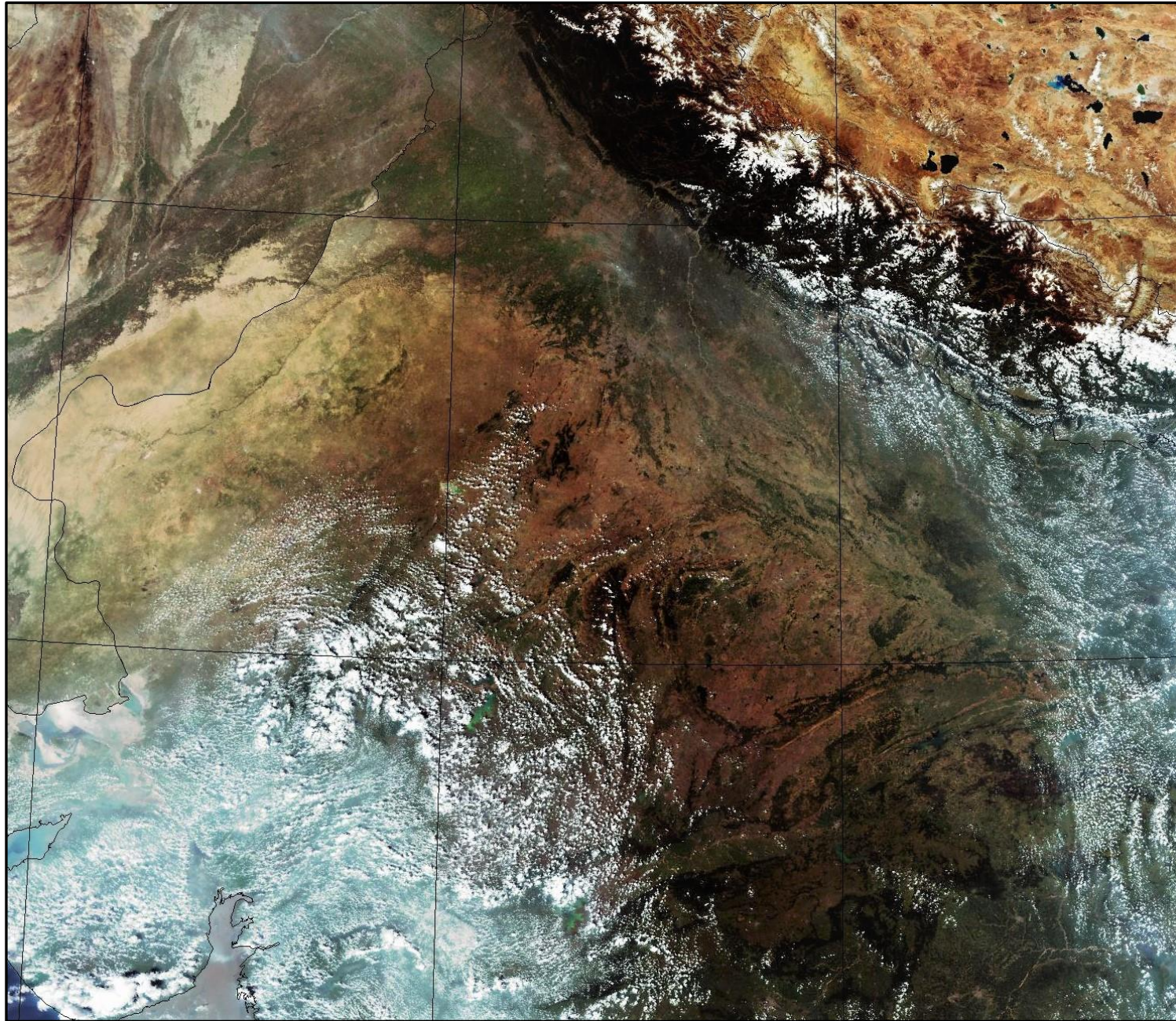
Details of residue burning events in Rajasthan on 10-Oct-2021

S. No.	District	Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	HANUMANGARH	SANGHRIYA	S-NPP	29.66100	74.42920	10/10/2021	13:16:47	D	6.60

Details of residue burning events in Madhya Pradesh on 10-Oct-2021

S. No.	District	Block	Satellite	Latitude	Longitude	ACQ_DATE	ACQ_TIME	Day / Night	Fire Power (W/m2)
1	BHOPAL	BERASIYA	S-NPP	23.74030	77.56670	10/10/2021	13:16:47	D	3.90
2	DAMOH	PATHARIA	S-NPP	24.01910	79.49090	10/10/2021	13:16:47	D	2.50
3	DATIA	DATIA	S-NPP	25.78870	78.55140	10/10/2021	13:16:47	D	3.00
4	DATIA	SEONDHA	S-NPP	26.10070	78.78760	10/10/2021	13:16:47	D	2.00
5	JABALPUR	SAHPURA	S-NPP	23.13230	79.70960	10/10/2021	13:16:47	D	3.60
6	MORENA	JORA	S-NPP	26.37710	77.71210	10/10/2021	13:16:47	D	2.10
7	NARSHIMAPURA	KARELI	S-NPP	22.98680	79.05720	10/10/2021	13:16:47	D	2.20
8	RAJGARH	NARSINGHGAR	S-NPP	23.56310	76.89460	10/10/2021	13:16:47	D	4.60
9	SEONI	GHANSAUR	S-NPP	22.50990	79.84320	10/10/2021	13:16:47	D	2.80
10	VIDESHA	KORWAI	S-NPP	24.08820	77.92620	10/10/2021	13:16:47	D	4.50

SNPP (VIIRS) Satellite image (TCC) of North and Central India Acquired on 10-Oct-2021 at 13:14:25 IST by IARI Ground Station



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)
