

*Supplemental Material for*

**Forty Five Years of Observed Soil Moisture in the Ukraine: No  
Summer Desiccation (Yet)**

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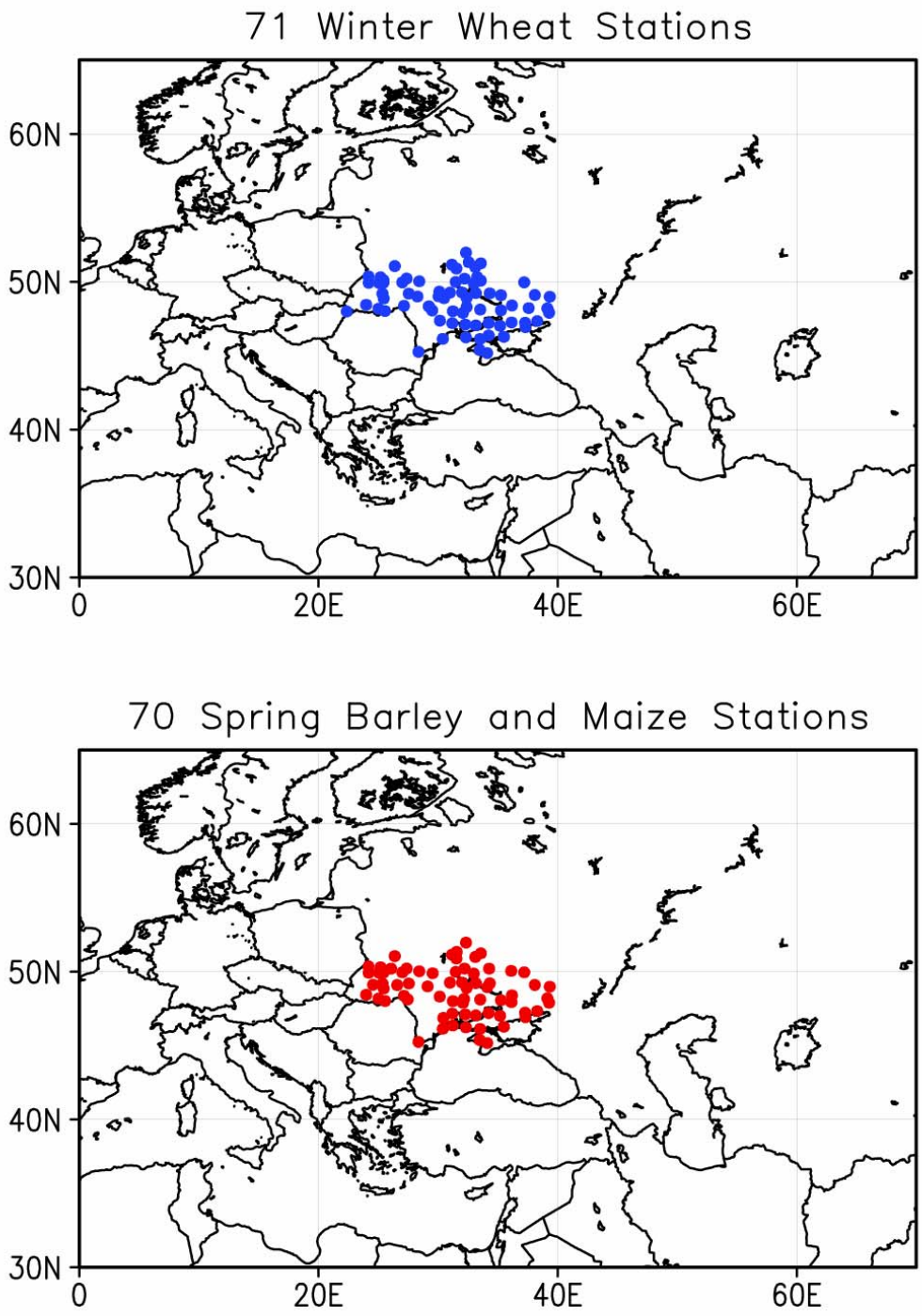
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**Figure 1.** Location of soil moisture stations for winter and spring cereals with 45 yr of soil moisture observations, for the period 1958-2002.

**Table 1.** The 25 districts with soil moisture observations. The data were averaged from 70 (for spring cereals – barley and maize) and 71 (for winter wheat) Ukraine stations. The total seeded areas are from 2002, typical of other years. All data come from the State Statistics Committee of the Ukraine.

Name of District	Lat. (°N)	Lon. (°E)	Total area (km <sup>2</sup> )	Total seeded area for 2002 (km <sup>2</sup> )	Winter wheat for 2002(km <sup>2</sup> )	Spring cereals (barley and maize) for 2002 (km <sup>2</sup> )	Forest (%)
Sumskaya	51.18	33.95	23,800	9,940	2,040	1,750	16
Poltavskaya	49.75	33.80	28,800	15,890	3,550	3,980	7
Kharkovskaya	49.65	36.55	31,400	16,640	4,200	3,310	10
Donetskaya	48.08	37.80	26,500	15,050	3,190	3,980	5
Luganskaya	49.03	38.87	26,700	10,020	2,470	1,720	9
Kirovogradskaya	48.42	31.82	24,600	14,640	3,500	3,490	4
Zaporozhskaya	47.08	35.98	27,200	15,460	3,830	3,560	1
Dnepropetrovskaya	48.17	34.67	31,900	18,020	3,980	4,900	3
Chernigovskaya	51.40	31.98	31,900	10,710	1,390	1,420	18
Kievskaya	50.30	30.52	28,100	12,120	2,610	1,850	20
Cherkasskaya	49.18	31.32	20,900	12,250	2,200	2,830	14
Zhitomirskaya	50.87	28.28	29,900	9,700	1,310	910	32
Vinnitskaya	49.07	28.60	26,500	15,650	3,260	3,330	11
Khmelnitskaya	49.42	27.00	20,600	10,810	2,270	1,820	12
Ternopolskaya	49.53	25.53	13,800	7,630	1,420	1,540	13
Chernovitskaya	48.47	26.68	8,100	3,120	520	690	29
Lvovskaya	49.88	24.05	21,800	6,590	1,240	530	25
Ivano-Frankovskaya	48.75	24.52	13,900	3,620	410	490	40
Volynskaya	51.20	24.90	20,200	5,540	1,180	360	29
Rovenskaya	50.75	26.17	20,100	5,730	920	600	36
Zakarpatskaya	48.50	22.93	12,800	1,910	290	330	49
Odesskaya	46.40	29.87	33,300	17,360	5,700	2,480	4
Nikolaevskaya	47.38	31.78	24,600	14,280	5,640	2,230	2
Khersonskaya	46.63	33.52	28,500	13,590	4,440	1,890	3
Krymskaya	45.22	34.15	26,100	9,100	3,210	830	10