

Supplementary Materials

Table S1. Dataset of multispectral images used for the assessment of water stress.

Year	Date	Sensors	Cloud cover percentage
2019			
	2/13/2019	Landsat 8-9 OLI/TIRS C2 L1	31.74
	3/26/2019	Landsat 8-9 OLI/TIRS C2 L1	13.68
	4/18/2019	Landsat 8-9 OLI/TIRS C2 L1	0.63
	6/5/2019	Landsat 8-9 OLI/TIRS C2 L1	5.66
	6/21/2019	Landsat 8-9 OLI/TIRS C2 L1	1.78
	7/7/2019	Landsat 8-9 OLI/TIRS C2 L1	1.0
	8/1/2019	Landsat 8-9 OLI/TIRS C2 L1	0.0
	9/25/2019	Landsat 8-9 OLI/TIRS C2 L1	0.0
	10/20/2019	Landsat 8-9 OLI/TIRS C2 L1	12.88
	10/27/2019	Sentinel-2B	0.013
	12/7/2019	Landsat 8-9 OLI/TIRS C2 L1	4.60
	12/31/2019	Sentinel-2A	1.33
2020	1/24/2020	Landsat 8-9 OLI/TIRS C2 L1	7.99
	2/9/2020	Sentinel-2A	0.21
	3/12/2020	Landsat 8-9 OLI/TIRS C2 L1	0.08
	4/29/2020	Landsat 8-9 OLI/TIRS C2 L1	43.76
	5/24/2020	Sentinel-2B	0.15
	6/13/2020	Sentinel-2B	0.37
	6/18/2023	Sentinel-2B	10.81
	6/28/2020	Sentinel-2A	0.87
	7/9/2020	Landsat 8-9 OLI/TIRS C2 L1	5.01
	7/28/2020	Sentinel-2A	0.16
	8/10/2020	Landsat 8-9 OLI/TIRS C2 L1	0.89
	9/11/2020	Landsat 8-9 OLI/TIRS C2 L1	5.82
	10/22/2020	Landsat 8-9 OLI/TIRS C2 L1	0.39
	11/7/2020	Landsat 8-9 OLI/TIRS C2 L1	2.93
	11/30/2020	Landsat 8-9 OLI/TIRS C2 L1	40.61
2021	1/1/2021	Landsat 8-9 OLI/TIRS C2 L1	23.12
	2/18/2021	Landsat 8-9 OLI/TIRS C2 L1	28.76
	3/15/2021	Landsat 8-9 OLI/TIRS C2 L1	61.48
	3/31/2021	Landsat 8-9 OLI/TIRS C2 L1	0.60
	5/18/2021	Landsat 8-9 OLI/TIRS C2 L1	0.08
	6/3/2021	Landsat 8-9 OLI/TIRS C2 L1	0.19
	7/21/2021	Landsat 8-9 OLI/TIRS C2 L1	0.56
	8/22/2021	Landsat 8-9 OLI/TIRS C2 L1	0.24
	9/14/2021	Landsat 8-9 OLI/TIRS C2 L1	3.75
	10/16/2021	Landsat 8-9 OLI/TIRS C2 L1	49.26
	11/17/2021	Landsat 8-9 OLI/TIRS C2 L1	33.05

	11/25/2021	Sentinel-2B	49.64
	12/20/2021	Landsat 8-9 OLI/TIRS C2 L1	15.15
	12/30/2021	Sentinel-2A	0.60
2022	1/20/2022	Landsat 8-9 OLI/TIRS C2 L1	36.68
	2/21/2022	Landsat 8-9 OLI/TIRS C2 L1	25.79
	3/25/2022	Landsat 8-9 OLI/TIRS C2 L1	0.53
	4/19/2022	Landsat 8-9 OLI/TIRS C2 L1	4.91
	5/20/2022	Landsat 8-9 OLI/TIRS C2 L1	2.83
	6/30/2022	Landsat 8-9 OLI/TIRS C2 L1	6.01
	7/15/2022	Landsat 8-9 OLI/TIRS C2 L1	0.42
	8/16/2022	Landsat 8-9 OLI/TIRS C2 L1	20.78
	9/10/2022	Landsat 8-9 OLI/TIRS C2 L1	2.08
	10/3/2022	Landsat 8-9 OLI/TIRS C2 L1	28.75
	11/21/2022	Landsat 8-9 OLI/TIRS C2 L1	7.10
	12/31/2022	Landsat 8-9 OLI/TIRS C2 L1	1.11
2023	1/4/2023	Sentinel-2A	22.5
	2/18/2023	Sentinel-2B	0.36
	4/29/2023	Sentinel-2A	27.19
	5/24/2023	Sentinel-2A	1.29
	6/18/2023	Sentinel-2B	1.55