
Establishing ecological thresholds and targets for groundwater management

In the format provided by the
authors and unedited

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Supplementary Section 1 | Supplementary Tables and Figures

Supplementary Table 1. California drought years based on the annual dry season (July – Sep) average D0 value, where drought conditions statewide occur when $\geq 50\%$ of the state is experiencing D0 (abnormally dry) – D4 (exceptional drought) conditions.

Year	Average D0 (%)	Drought
1985	73.1	yes
1986	1.9	no
1987	67.5	yes
1988	41.7	no
1989	66.9	yes
1990	74.2	yes
1991	20.8	no
1992	29.7	no
1993	0	no
1994	66.1	yes
1995	0	no
1996	25.1	no
1997	26.9	no
1998	0	no
1999	31.7	no
2000	23.2	no
2001	38.9	no
2002	78	yes
2003	7.4	no
2004	41.2	no
2005	0.7	no
2006	22	no
2007	95.9	yes
2008	45	no
2009	59.8	yes
2010	3.7	no
2011	4.6	no
2012	66.1	yes
2013	80.5	yes
2014	85.8	yes
2015	56	yes
2016	22.9	no
2017	0	no
2018	63.7	yes
2019	0.1	no
2020	54.2	yes
2021	94.5	yes
2022	92.2	yes

Supplementary Table 2. List of Natural Communities Commonly Associated with Groundwater (NCCAG) vegetation name, scientific name, common name, and mean maximum rooting depth (m) that were included in the study.

Vegetation Name	Scientific Name	Common Name	Mean Max Rooting Depth (m)
<i>Acacia greggii</i>	<i>Acacia greggii</i>	Catclaw Acacia	NA
<i>Acer negundo</i>	<i>Acer negundo</i>	Box-elder	3.23
<i>Ailanthus altissima</i> - provisional	<i>Ailanthus altissima</i>	Tree-of-Heaven	NA
Alkali Desert Scrub	Not applicable	Not applicable	NA
Alkaline Mixed Grasses	Not applicable	Not applicable	NA
Alkaline Mixed Scrub	Not applicable	Not applicable	NA
<i>Allenrolfea occidentalis</i>	<i>Allenrolfea occidentalis</i>	Iodine Bush	NA
<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i>	White Alder	NA
<i>Alnus rhombifolia</i> / <i>Salix exigua</i> -(<i>Rosa californica</i>)	<i>Alnus rhombifolia</i>	White Alder	1.51
<i>Alnus rubra</i>	<i>Alnus rubra</i>	Red Alder	NA
Arid West freshwater emergent marsh	Not applicable	Not applicable	NA
<i>Artemisia tridentata</i> - <i>Atriplex canescens</i>	<i>Artemisia tridentata</i> spp. <i>Parishii</i>	Parish's sagebrush	2.1
<i>Artemisia tridentata</i> - <i>Salvia mellifera</i>	<i>Artemisia tridentata</i> spp. <i>Parishii</i>	Parish's sagebrush	2.1
<i>Arundo donax</i>	<i>Arundo donax</i>	Giant Reed	4.9
<i>Arundo donax</i> Herbaceous Alliance	<i>Arundo donax</i>	Giant Reed	4.9
<i>Atriplex confertifolia</i>	<i>Atriplex confertifolia</i>	Shadscale	4.89
<i>Atriplex lentiformis</i>	<i>Atriplex lentiformis</i>	Quailbush	4.89
<i>Atriplex spinifera</i>	<i>Atriplex spinifera</i>	Spinescale	4.89
<i>Baccharis</i> (Riparian)	<i>Baccharis salicifolia</i>	Mule fat	2.26
<i>Baccharis salicifolia</i>	<i>Baccharis salicifolia</i>	Mule fat	2.26
<i>Baccharis salicifolia</i> Shrubland Alliance	<i>Baccharis salicifolia</i>	Mule fat	2.26
California Sycamore	<i>Platanus racemosa</i>	California Sycamore	NA
California Walnut	<i>Juglans californica</i>	California Walnut	NA
California Warm Temperate Marsh/Seep	Not applicable	Not applicable	NA
Californian Warm Temperate Marsh/Seep Group	Not applicable	Not applicable	NA
Catclaw Acacia	<i>Acacia greggii</i>	Catclaw Acacia	NA
<i>Chilopsis linearis</i>	<i>Chilopsis linearis</i>	Desert Willow	NA
Coast Live Oak	<i>Quercus agrifolia</i>	Coast Live Oak	8.66
Desert Riparian	Not applicable	Not applicable	NA
<i>Eleocharis rostellata</i>	<i>Eleocharis rostellata</i>	Beaked Spikerush	NA

<i>Elymus (Leymus) triticoides</i>	<i>Leymus triticoides</i>	Creeping Wildrye	NA
<i>Ericameria albida</i>	<i>Ericameria albida</i>	White Rabbitbrush	NA
<i>Eucalyptus</i> spp.	Not applicable	Not applicable	2.02
Floodplain wetland	Not applicable	Not applicable	NA
<i>Fraxinus latifolia</i>	<i>Fraxinus latifolia</i>	Oregon Ash	NA
Fremont Cottonwood	<i>Populus fremontii</i>	Fremont Cottonwood	2.79
Fremont Cottonwood - Red Willow Woodland	<i>Populus fremontii</i>	Fremont Cottonwood	2.79
Freshwater Emergent Marsh	Not applicable	Not applicable	NA
<i>Heterotheca oregona</i>	<i>Heterotheca oregona</i>	Oregon Goldenaster	NA
<i>Isocoma acradenia</i>	<i>Isocoma acradenia</i>	Alkali Goldenbush	NA
<i>Ivesia kingii</i>	<i>Ivesia kingii</i>	King's Mousetail	NA
<i>Juglans hindsii</i> and hybrids	<i>Juglans hindsii</i>	Northern California Black Walnut	NA
<i>Juncus acutus</i> Provisional	<i>Juncus acutus</i>	Spiny Rush	NA
<i>Juncus arcticus</i>	<i>Juncus arcticus</i>	Arctic Rush	NA
<i>Lepidium latifolium</i>	<i>Lepidium latifolium</i>	Broadleaf Pepper-grass	NA
<i>Lepidospartum squamatum</i>	<i>Lepidospartum squamatum</i>	Scalebroom	NA
<i>Lepidospartum squamatum</i> - <i>Baccharis salicifolia</i>	<i>Lepidospartum squamatum</i>	Scalebroom	2.26
<i>Lepidospartum squamatum</i> - <i>Eriogonum fasciculatum</i>	<i>Lepidospartum squamatum</i>	Scalebroom	NA
<i>Lepidospartum squamatum</i> / <i>Amsinckia menziesii</i>	<i>Lepidospartum squamatum</i>	Scalebroom	NA
<i>Lepidospartum squamatum</i> - <i>Eriogonum fasciculatum</i>	<i>Lepidospartum squamatum</i>	Scalebroom	NA
<i>Leymus triticoides</i>	<i>Leymus triticoides</i>	Creeping Wildrye	NA
<i>Leymus triticoides</i> - <i>Anemopsis californica</i>	<i>Leymus triticoides</i>	Creeping Wildrye	NA
Lodgepole Pine	<i>Pinus contorta</i>	Lodgepole Pine	NA
Low Elevation Wash System	Not applicable	Not applicable	NA
Madrean Warm Semi-Desert Wash Woodland/Scrub	Not applicable	Not applicable	NA
Mixed riparian forest	Not applicable	Not applicable	NA
Mixed riparian scrub	Not applicable	Not applicable	NA
Mixed riparian scrub - <i>Arundo donax</i>	Not applicable	Not applicable	4.9
Mixed willow forest	<i>Salix</i> spp.	Willow	1.51
Mixed willow scrub	<i>Salix</i> spp.	Willow	1.51
<i>Parkinsonia florida</i> - <i>Olneya tesota</i>	<i>Parkinsonia florida</i>	Blue Palo Verde	NA
<i>Persicaria lapathifolia</i> - <i>Xanthium strumarium</i>	<i>Persicaria lapathifolia</i>	Curlytop Knotweed	NA

<i>Phragmites australis</i>	<i>Phragmites australis</i>	Common Reed	1.15
<i>Platanus racemosa</i>	<i>Platanus racemosa</i>	California Sycamore	NA
<i>Platanus racemosa</i> - <i>Populus fremontii</i>	<i>Platanus racemosa</i>	California Sycamore	2.79
<i>Platanus racemosa</i> - <i>Populus fremontii</i> / <i>Salix lasiolepis</i>	<i>Platanus racemosa</i>	California Sycamore	2.79
Playa	Not applicable	Not applicable	NA
<i>Pluchea sericea</i>	<i>Pluchea sericea</i>	Arrow-weed	NA
<i>Populus balsamifera</i>	<i>Populus trichocarpa</i>	Black Cottonwood	2.79
<i>Populus balsamifera</i> - <i>Salix laevigata</i>	<i>Populus trichocarpa</i>	Black Cottonwood	2.79
<i>Populus balsamifera</i> - <i>Salix lasiolepis</i>	<i>Populus trichocarpa</i>	Black Cottonwood	2.79
<i>Populus balsamifera</i> - <i>Salix lucida</i>	<i>Populus trichocarpa</i>	Black Cottonwood	2.79
<i>Populus fremontii</i>	<i>Populus fremontii</i>	Fremont Cottonwood	2.79
<i>Populus fremontii</i> - <i>Salix</i> (<i>laevigata</i> , <i>lasiolepis</i> , <i>lucida</i> ssp. <i>lasiandra</i>)	<i>Populus fremontii</i>	Fremont Cottonwood	2.79
<i>Populus fremontii</i> - <i>Salix laevigata</i>	<i>Populus fremontii</i>	Fremont Cottonwood	2.79
<i>Populus fremontii</i> / <i>Baccharis salicifolia</i>	<i>Populus fremontii</i>	Fremont Cottonwood	2.79
<i>Prosopis glandulosa</i>	<i>Prosopis glandulosa</i>	Honey Mesquite	NA
<i>Prunus fasciculata</i>	<i>Prunus fasciculata</i>	Desert Almond	NA
Quaking Aspen	<i>Populus tremuloides</i>	Quaking Aspen	NA
<i>Quercus agrifolia</i>	<i>Quercus agrifolia</i>	Coast Live Oak	8.66
<i>Quercus lobata</i>	<i>Quercus lobata</i>	Valley Oak	8.66
<i>Quercus lobata</i> Woodland/Forest Alliance	<i>Quercus lobata</i>	Valley Oak	8.66
Red Willow Woodland Stand	<i>Salix laevigata</i>	Red Willow	1.51
Redwood	<i>Sequoia sempervirens</i>	Redwood	NA
Redwood - Douglas-Fir	<i>Sequoia sempervirens</i>	Redwood	NA
Riparian Evergreen and Deciduous Woodland	Not applicable	Not applicable	NA
Riparian Introduced Scrub	Not applicable	Not applicable	NA
Riparian Mixed Hardwood	Not applicable	Not applicable	NA
Riparian Mixed Shrub	Not applicable	Not applicable	NA
Riversidean Alluvial Scrub	Not applicable	Not applicable	NA
Riverwash scrub	Not applicable	Not applicable	NA
<i>Rosa californica</i>	<i>Rosa californica</i>	California Rose	NA
<i>Rubus armeniacus</i>	<i>Rubus armeniacus</i>	Himalayan blackberry	NA
<i>Salix exigua</i>	<i>Salix exigua</i>	Narrowleaf Willow	1.51
<i>Salix exigua</i> - <i>Arundo donax</i>	<i>Salix exigua</i>	Narrowleaf Willow	1.51
<i>Salix exigua</i> Shrubland Alliance	<i>Salix exigua</i>	Narrowleaf Willow	1.51
<i>Salix exigua</i> -(<i>Salix lasiolepis</i>)- <i>Rubus discolor</i>	<i>Salix exigua</i>	Narrowleaf Willow	1.51
<i>Salix gooddingii</i>	<i>Salix gooddingii</i>	Goodding's Willow	1.51

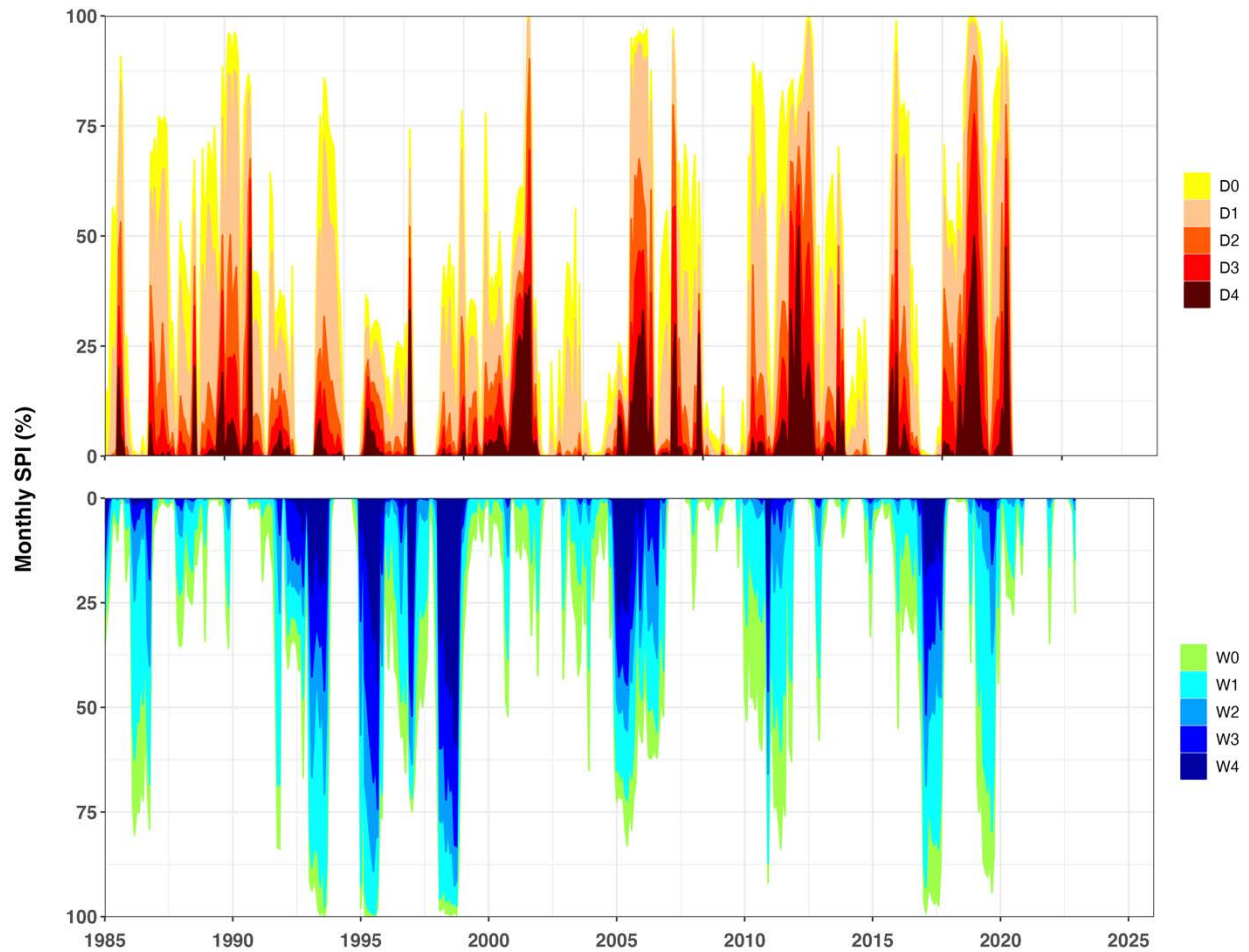
<i>Salix gooddingii</i> - <i>Salix lucida</i> - <i>Populus fremontii</i>	<i>Salix gooddingii</i>	Goodding's Willow	2.79
<i>Salix gooddingii</i> / <i>Baccharis salicifolia</i>	<i>Salix gooddingii</i>	Goodding's Willow	1.51
<i>Salix gooddingii</i> / <i>Rubus armeniacus</i>	<i>Salix gooddingii</i>	Goodding's Willow	1.51
<i>Salix gooddingii</i> - <i>Quercus lobata</i> / wetland herb	<i>Salix gooddingii</i>	Goodding's Willow	1.51
<i>Salix laevigata</i>	<i>Salix laevigata</i>	Red Willow	1.51
<i>Salix laevigata</i> - <i>Arundo donax</i>	<i>Salix laevigata</i>	Red Willow	1.51
<i>Salix laevigata</i> - <i>Salix lasiolepis</i>	<i>Salix laevigata</i>	Red Willow	1.51
<i>Salix laevigata</i> - <i>Salix lucida</i>	<i>Salix laevigata</i>	Red Willow	1.51
<i>Salix laevigata</i> (Disturbed)	<i>Salix laevigata</i>	Red Willow	1.51
<i>Salix laevigata</i> - <i>Salix lasiolepis</i> Superalliance Mapping Unit	<i>Salix laevigata</i>	Red Willow	1.51
<i>Salix lasiolepis</i>	<i>Salix lasiolepis</i>	Arroyo Willow	1.51
<i>Salix lucida</i>	<i>Salix lucida</i>	Shining Willow	1.51
<i>Sambucus mexicana</i> (Disturbed)	<i>Sambucus mexicana</i>	Blue elderberry	NA
<i>Sambucus nigra</i>	<i>Sambucus nigra</i>	Common Elderberry	NA
<i>Sarcobatus vermiculatus</i> - <i>Atriplex confertifolia</i>	<i>Sarcobatus vermiculatus</i>	Greasewood	4.89
Scalebroom	<i>Lepidospartum squamatum</i>	Scalebroom	NA
<i>Schoenoplectus (acutus, californicus)</i>	<i>Schoenoplectus acutus</i>	Hardstem Bulrush	NA
<i>Schoenoplectus acutus</i>	<i>Schoenoplectus acutus</i>	Hardstem Bulrush	NA
<i>Schoenoplectus acutus</i> - <i>Typha domingensis</i>	<i>Schoenoplectus acutus</i>	Hardstem Bulrush	NA
<i>Schoenoplectus acutus</i> - <i>Typha latifolia</i>	<i>Schoenoplectus acutus</i>	Hardstem Bulrush	NA
<i>Schoenoplectus acutus</i> - <i>Typha latifolia</i> - <i>Phragmites australis</i>	<i>Schoenoplectus acutus</i>	Hardstem Bulrush	NA
<i>Schoenoplectus americanus</i>	<i>Schoenoplectus americanus</i>	Three-square Bulrush	NA
<i>Schoenoplectus californicus</i> - <i>Eichhornia crassipes</i>	<i>Schoenoplectus californicus</i>	California Bulrush	NA
<i>Schoenoplectus californicus</i> - <i>Schoenoplectus acutus</i>	<i>Schoenoplectus californicus</i>	California Bulrush	NA
<i>Scirpus</i> spp.	Not applicable	Not applicable	NA
Smallflower Tamarisk Shrub Stand	<i>Tamarix parviflora</i>	Smallflower Tamarisk	NA
Southwestern North American riparian evergreen and deciduous woodland	Not applicable	Not applicable	NA
Southwestern North American Riparian Wash/Scrub	Not applicable	Not applicable	NA
Southwestern North American Riparian, Flooded and Swamp Forest	Not applicable	Not applicable	NA
Southwestern North American Riparian, Flooded and Swamp Forest/Scrubland	Not applicable	Not applicable	NA

Southwestern North American Salt Basin and High Marsh	Not applicable	Not applicable	NA
<i>Suaeda moquinii</i>	<i>Suaeda moquinii</i>	Shrubby Seepweed	NA
<i>Tamarisk</i>	<i>Tamarix</i> spp.	Tamarisk	NA
<i>Tamarix</i> spp.	<i>Tamarix</i> spp.	Tamarisk	NA
Temperate Flooded and Swamp Forest	Not applicable	Not applicable	NA
Tule - Cattail	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	Tule	NA
<i>Typha (angustifolia, domingensis, latifolia)</i>	<i>Typha angustifolia</i>	Narrowleaf Cattail	NA
<i>Typha angustifolia-Typha latifolia-Typha domingensis</i>	<i>Typha angustifolia</i>	Narrowleaf Cattail	NA
<i>Typha angustifolia-Typha latifolia-Typha domingensis / Distichlis spicata</i>	<i>Typha angustifolia</i>	Narrowleaf Cattail	NA
<i>Typha latifolia</i>	<i>Typha latifolia</i>	Broadleaf Cattail	NA
Valley Foothill Riparian	Not applicable	Not applicable	NA
Valley Oak	<i>Quercus lobata</i>	Valley Oak	8.66
<i>Vitis californica</i> - provisional	<i>Vitis californica</i>	California Grape	NA
Water Birch	<i>Betula occidentalis</i>	Water Birch	NA
Western North America Wet Meadow and Low Shrub Carr	Not applicable	Not applicable	NA
Western North American Freshwater Aquatic Vegetation	Not applicable	Not applicable	NA
Western North American Freshwater Marsh	Not applicable	Not applicable	NA
Wet Meadows	Not applicable	Not applicable	NA
White Alder	<i>Alnus rhombifolia</i>	White Alder	NA
Willow	<i>Salix</i> spp.	Willow	1.51
Willow - Alder	<i>Salix</i> spp.	Willow	1.51
Willow (Shrub)	<i>Salix</i> spp.	Willow	1.51
Woods' Rose Shrubland	<i>Rosa woodsii</i>	Woods' Rose	NA

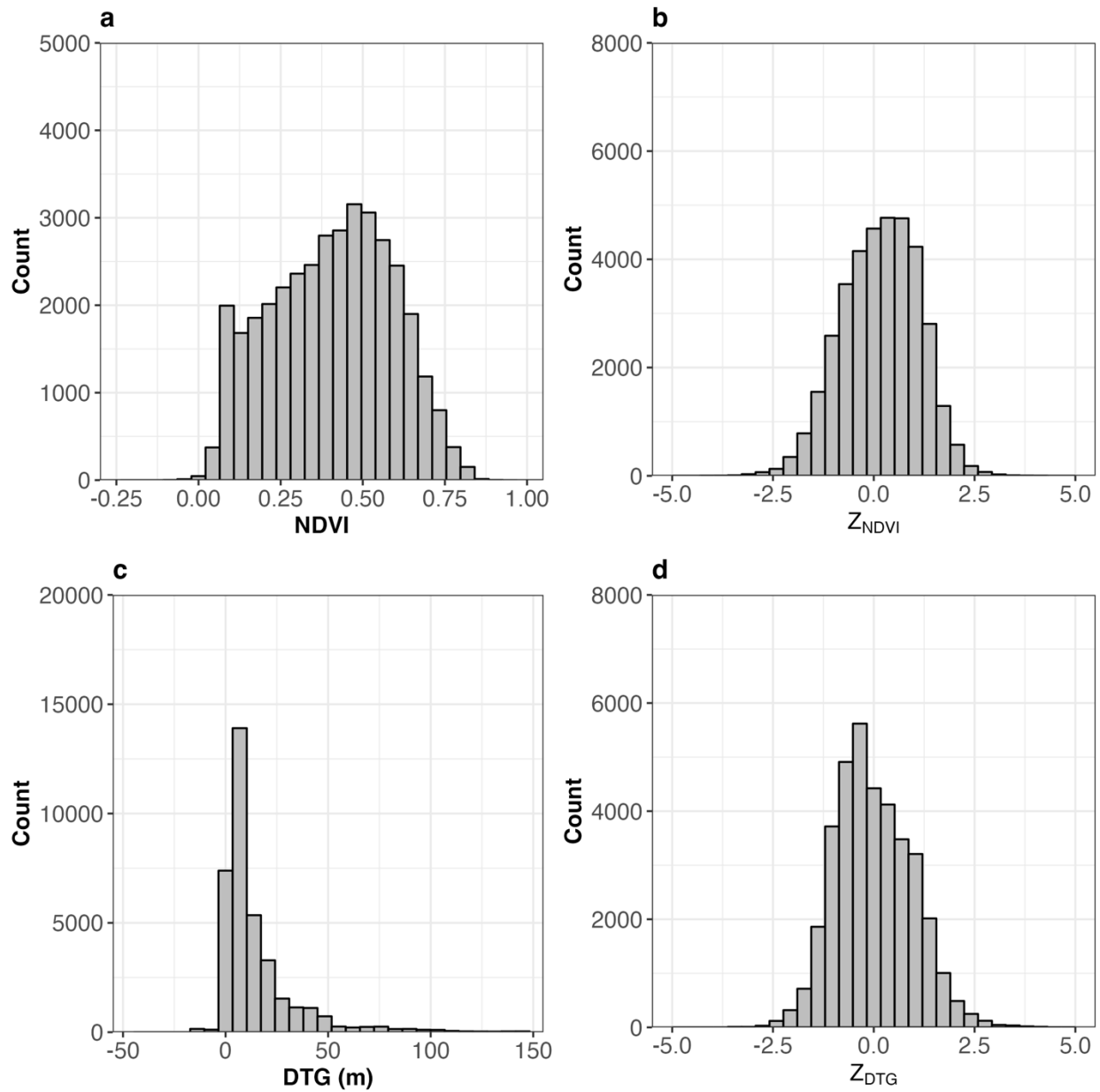
Supplementary Table 3. Data sources, descriptions, justifications for inclusion, and preprocessing steps.

Groundwater-dependent vegetation	Data source: The Nature Conservancy’s Natural Communities Commonly Associated with Groundwater (NCCAG) version 2.0 dataset Persistent web-link: https://www.scienceforconservation.org/products/natural-communities-groundwater-v2 Temporal range: variable Spatial resolution: Vector data Description and justification: The NCCAG v.2.0 is the most comprehensive dataset of groundwater-dependent vegetation across California. Preprocessing: None
GDE Pulse	Data source: The Nature Conservancy Persistent web-link: https://gde.codefornature.org/ Temporal range: 1985 - 2022 Spatial resolution: 30 meters Description and justification: Medoid annual dry-season (July 1 – September 30) for all groundwater-dependent vegetation polygons (NCCAG version 2.0) over the 1985 – 2022 time period. GDE Pulse was created to support local and state agencies consider groundwater-dependent ecosystems in groundwater sustainability plan development and implementation. Preprocessing: None
Groundwater levels	Data source: California Department of Water Resources’ SGMA Data Viewer Persistent web-link: https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels Temporal range: 1888-01-01 to present Spatial resolution: Vector data Description and justification: This dataset is the state of California’s publicly available groundwater level database used by local and state agencies. It contains continuous or periodic groundwater level measurement data for both production and observation wells across California. Preprocessing: Groundwater level data from the dry season (July, August, September) were selected and used to generate average annual values per well. Wells and associated data were selected based on the following criteria: 1) well contains > 3 average annual observations over the 1985 – 2022 period, 2) a groundwater-dependent vegetation polygon intersected a 250 m buffer around the well, 3) for groundwater-dependent vegetation polygons with more than one well pairing, we selected the well with the greatest number of average annual observations and shallowest well depth. See code for details.
Land surface elevation	Data source: United States Geological Survey Persistent web-link: https://www.usgs.gov/3d-elevation-program/about-3dep-products-services Temporal range: Not applicable Spatial resolution: ~10 m Description and justification: Highest resolution (1/3 arc-second) digital elevation model for the coterminous United States. Preprocessing: None

Plant rooting depth database	Data source: The Nature Conservancy Persistent web-link: https://www.groundwaterresourcehub.org/where-we-work/california/plant-rooting-depth-database/ Temporal range: Not applicable Spatial resolution: Not applicable Description and justification: Most comprehensive plant rooting depth database for California phreatophytes. Preprocessing: None
Standardized precipitation index (SPI)	Data source: National Integrated Drought Information System Persistent web-link: https://www.drought.gov/historical-information Temporal range: 1895 to present Spatial resolution: ~ 500 m Description and justification: Longest historical monthly dataset for determining drought conditions across the United States. Preprocessing: None



Supplementary Fig. 1. Monthly Standardized Precipitation Index (SPI) time series from 1985 – 2022. Monthly percentage values represent the proportion of California experiencing the following climate classifications: D0 – abnormally dry (% is inclusive of D0-D4), D1 – moderate drought (% is inclusive of D1-D4), D2 – severe drought (% is inclusive of D2-D4), D3 – extreme drought (% is inclusive of D3-D4), D4 – exceptional drought, W0 – abnormally wet (% is inclusive of W0-W4), W1 – moderate wet (% is inclusive of W1-W4), W2 – severe wet (% is inclusive of W2-W4), W3 – extreme wet (% is inclusive of W3-W4), W4 – exceptional wet.

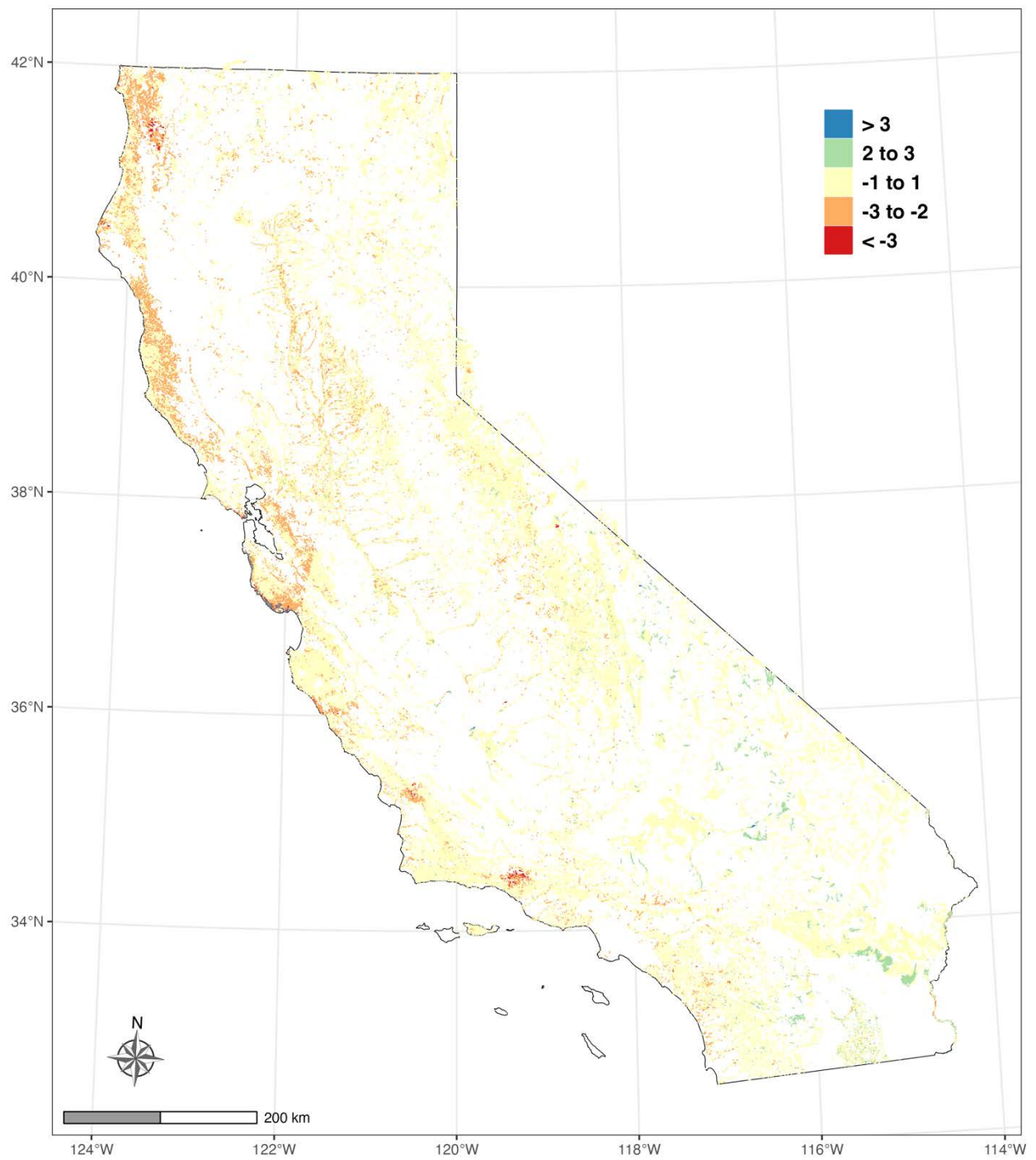


Supplementary Fig. 2. NDVI and DTG histograms for groundwater-dependent vegetation polygons with available groundwater data ($n = 3,127$ polygons): (a) NDVI, (b) Z_{NDVI} , (c) DTG at well (m), and (d) Z_{DTG} .

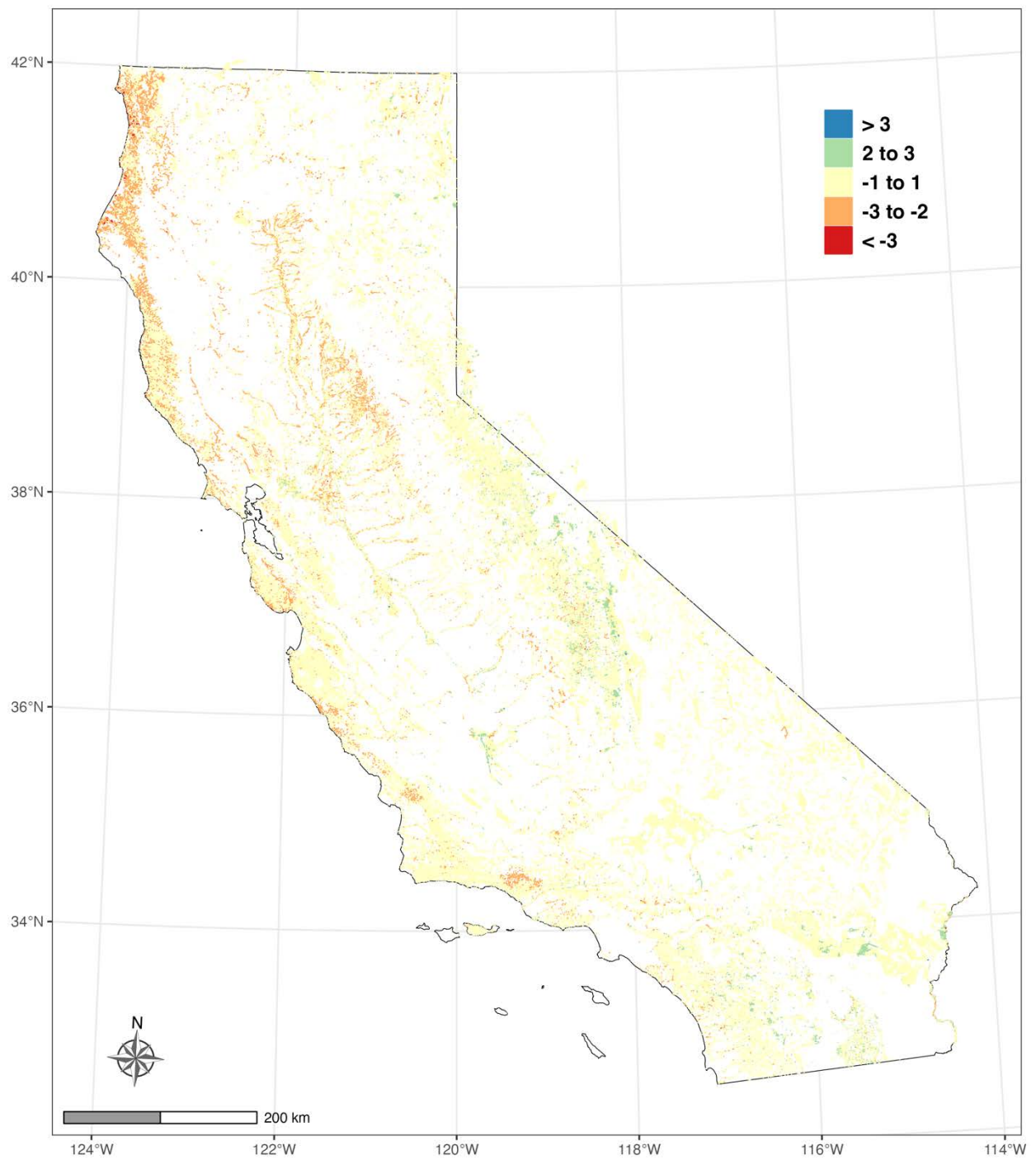
Supplementary Section 2 | Annual Z_{NDVI} Maps

Annual Z_{NDVI} maps for groundwater-dependent vegetation across California ($n = 246,017$ polygons) over the 1985 – 2022 study period.

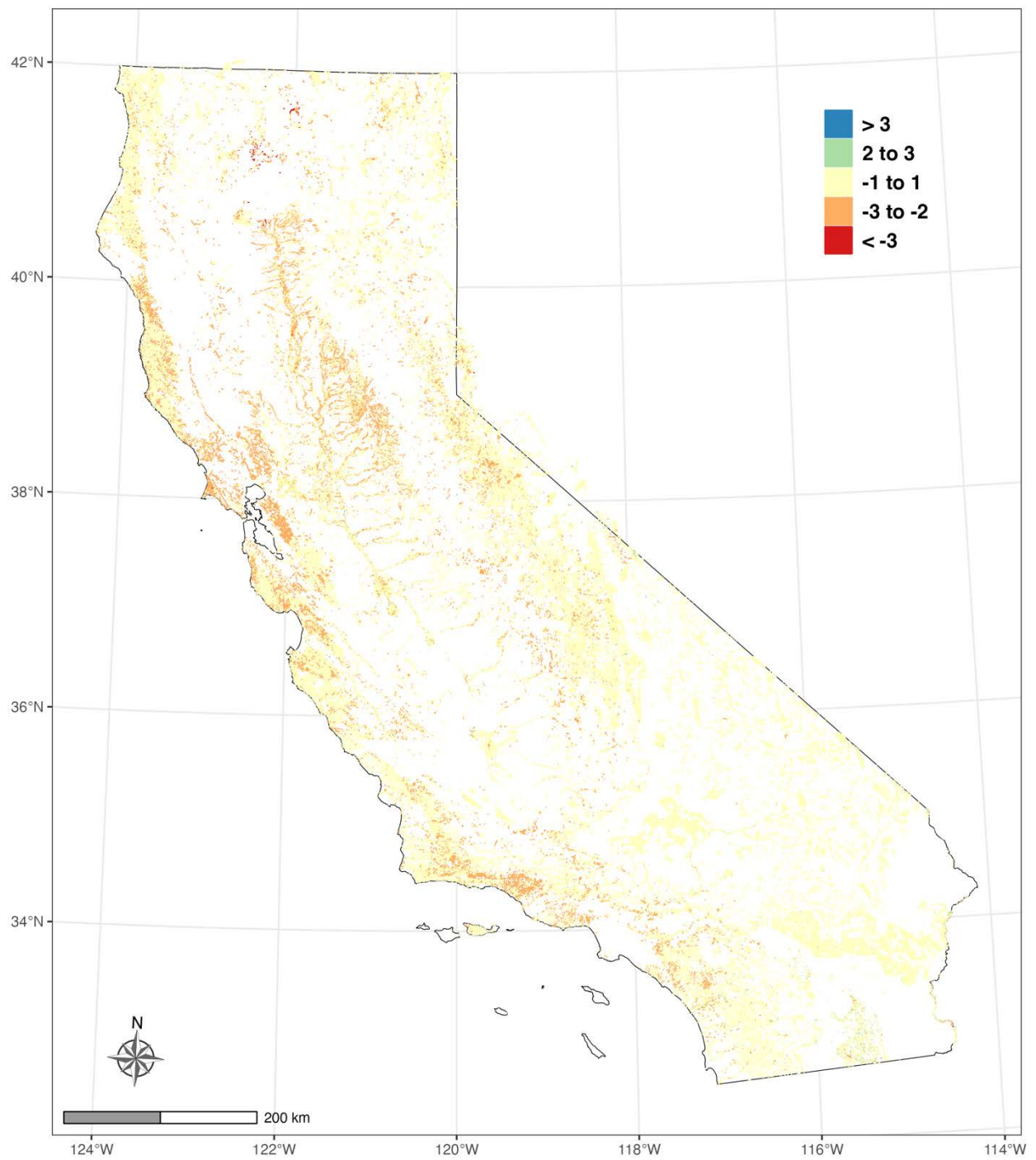
1985



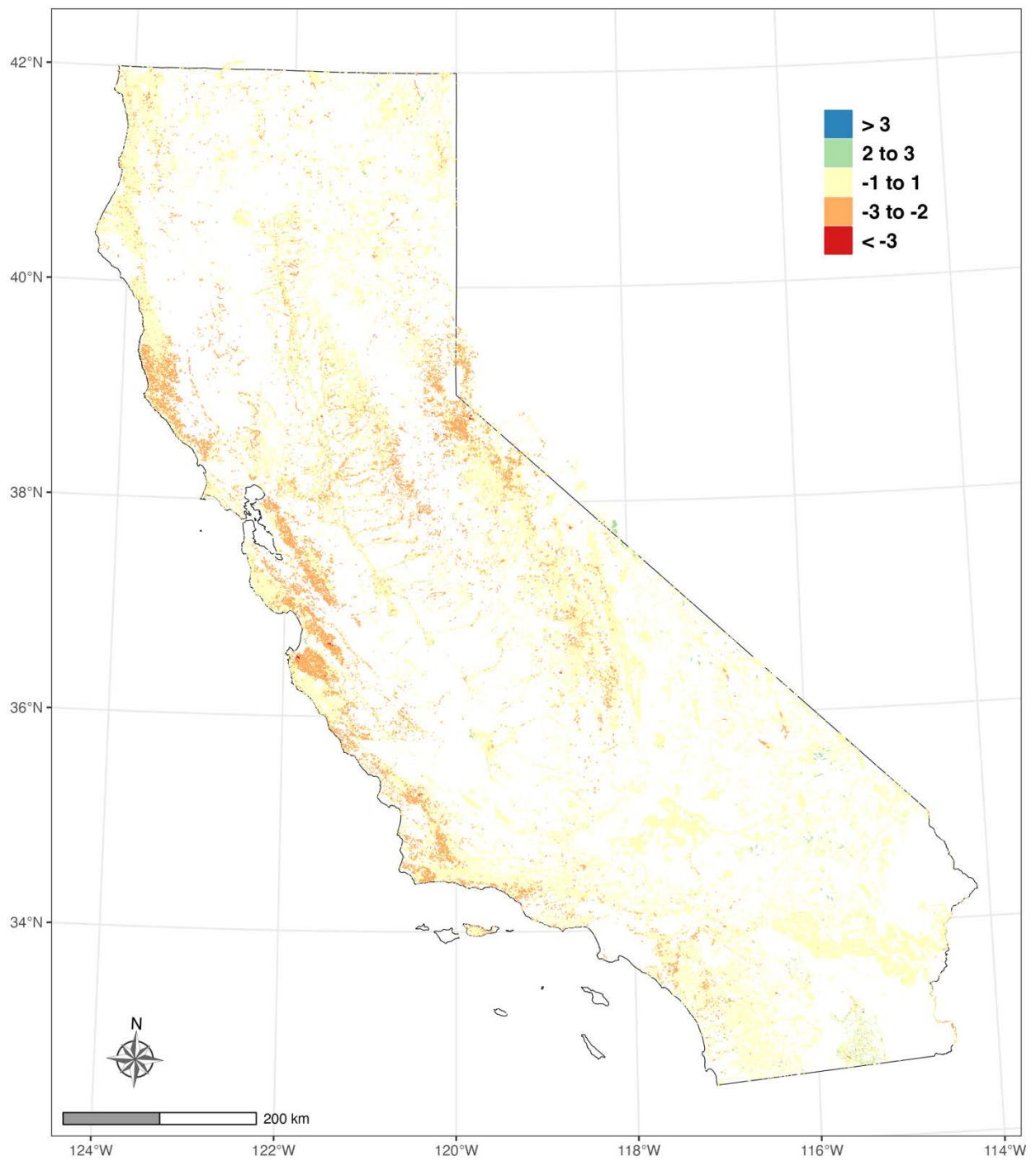
1986



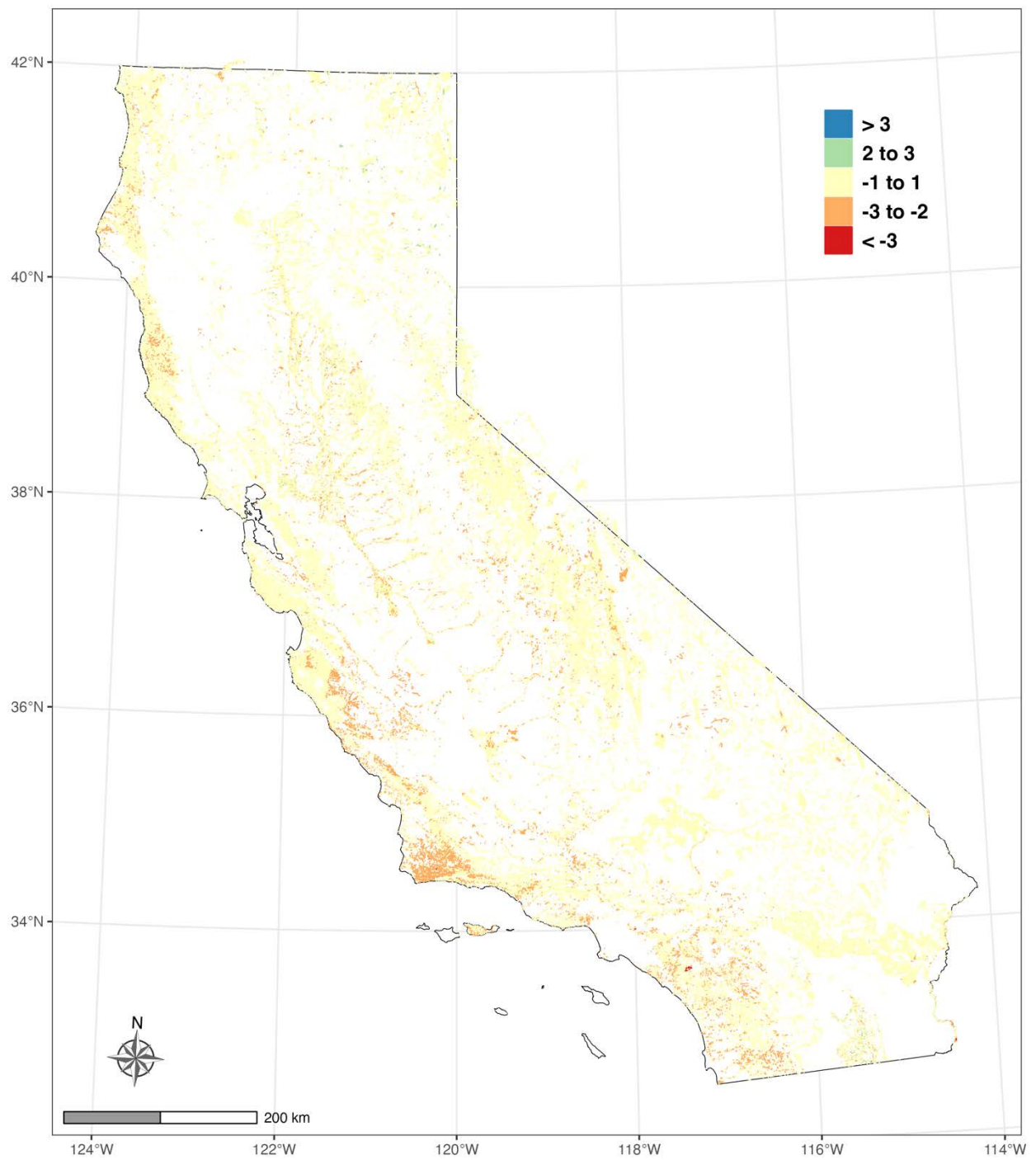
1987



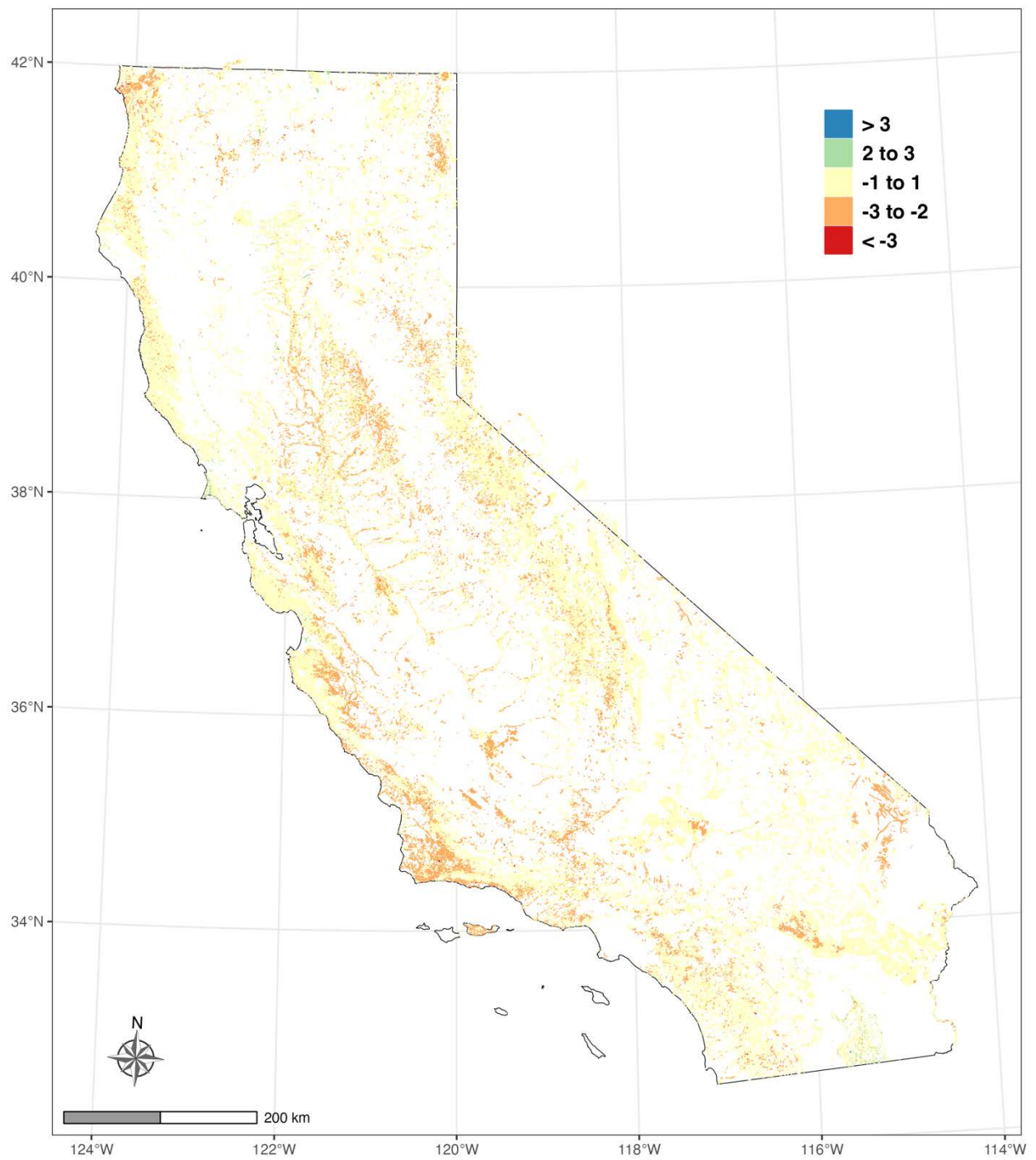
1988



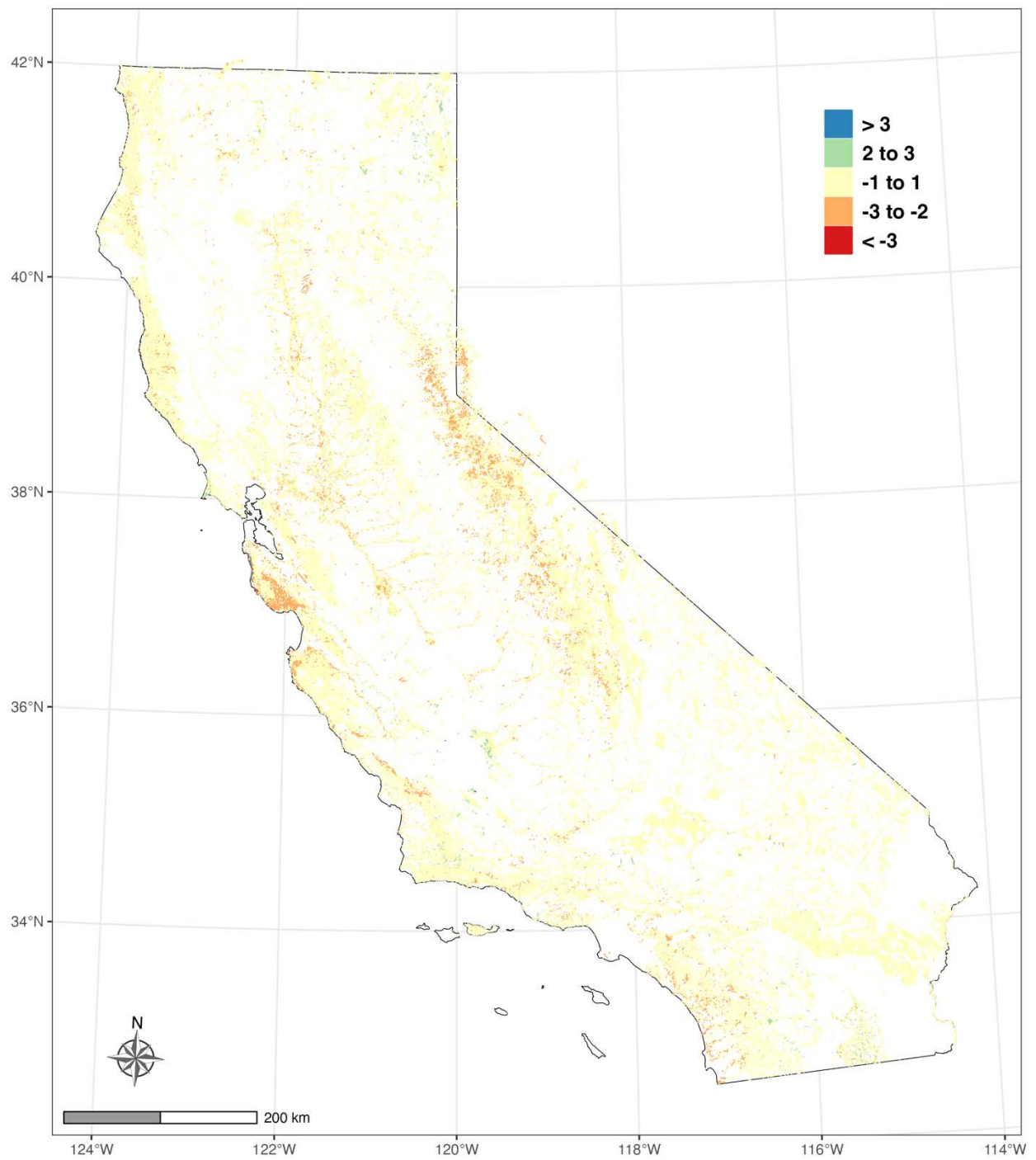
1989



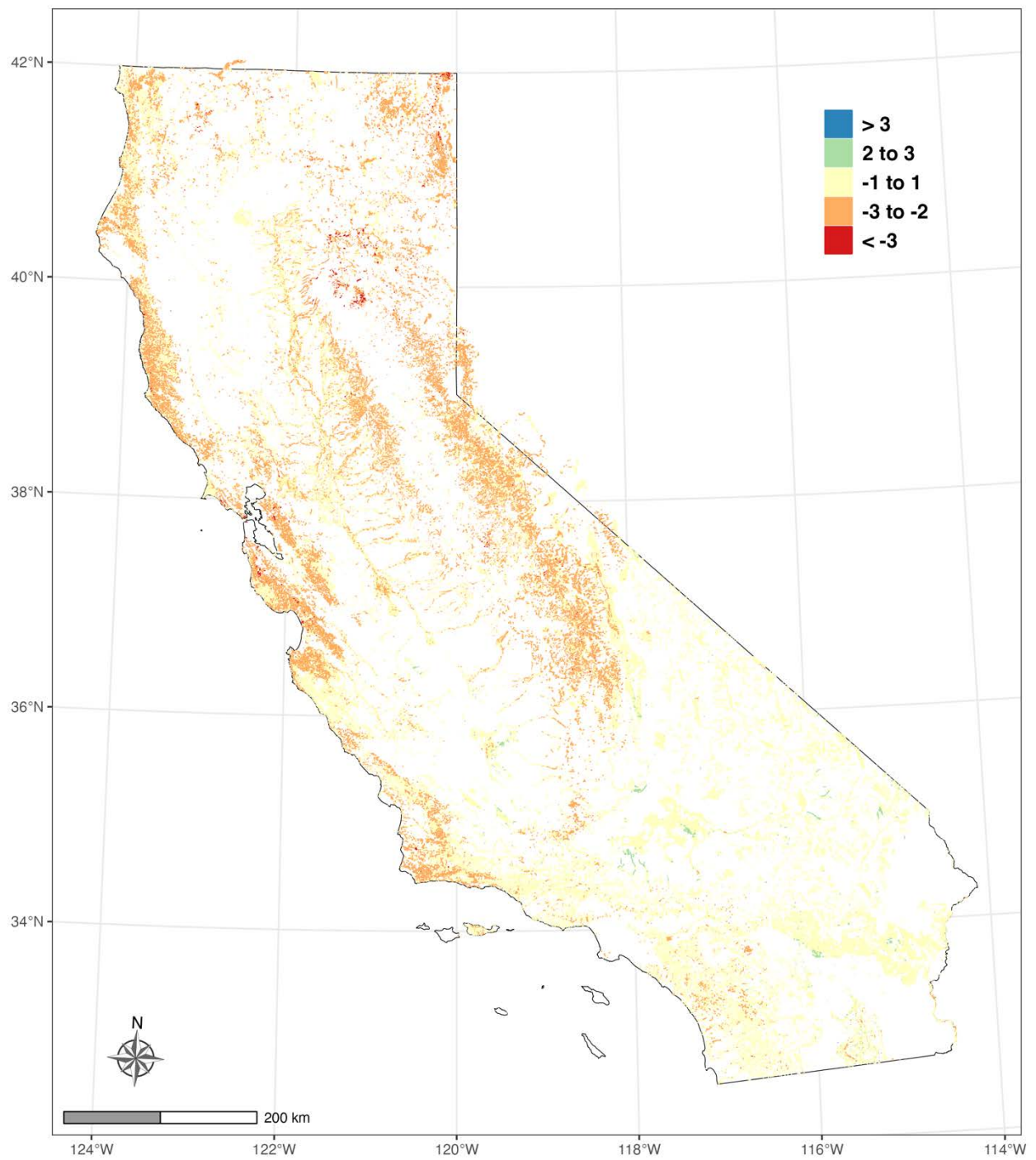
1990



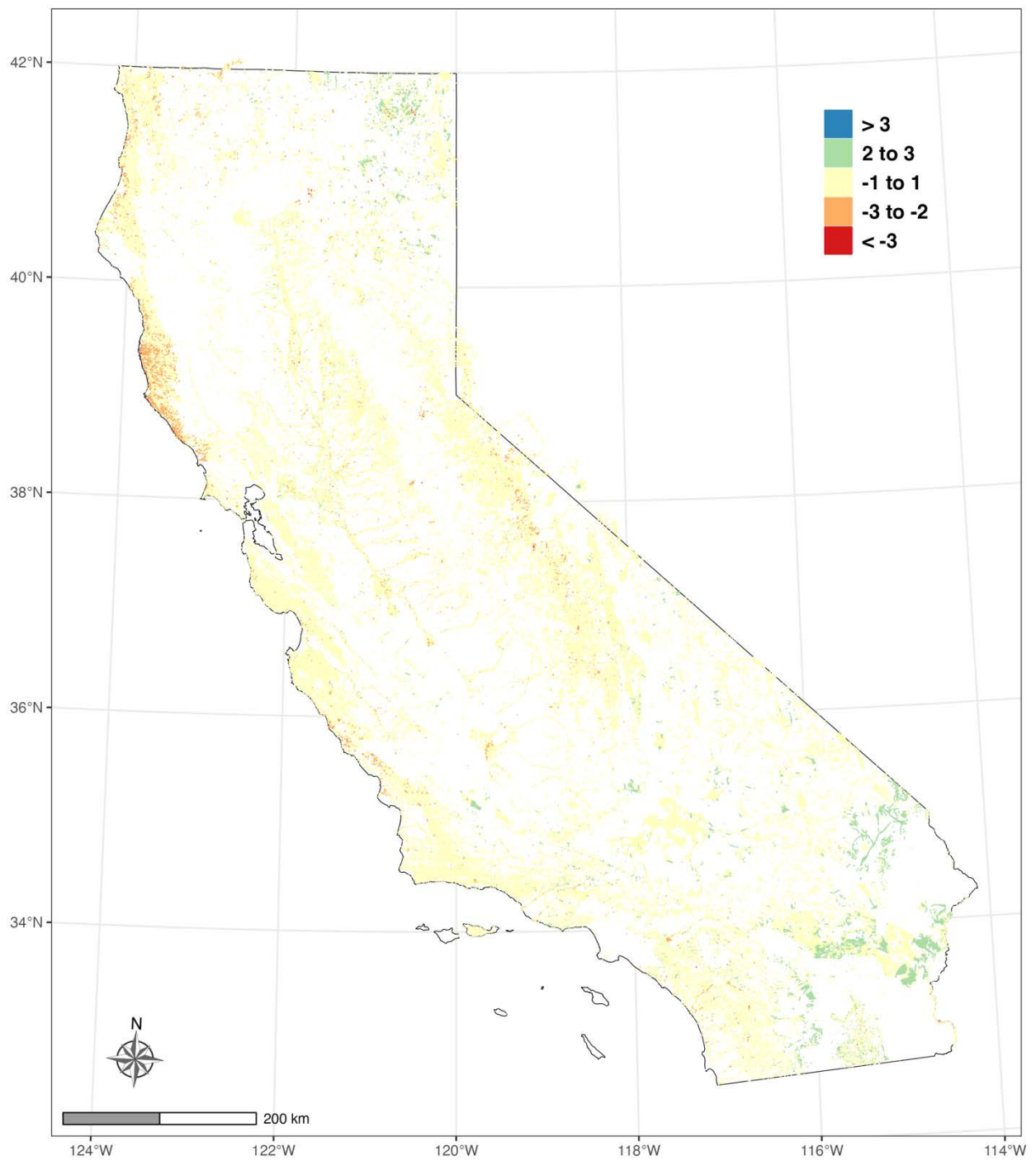
1991



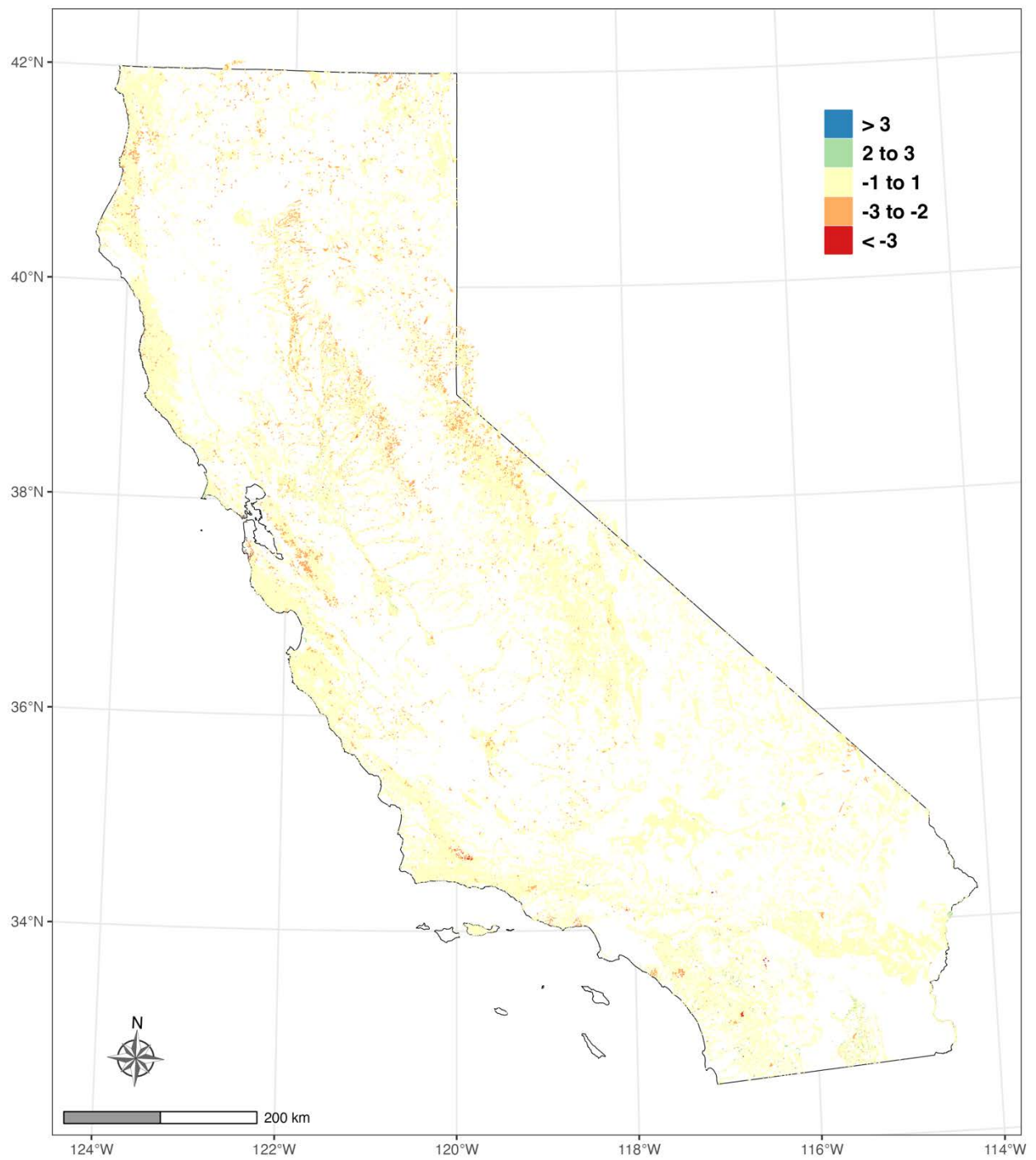
1992



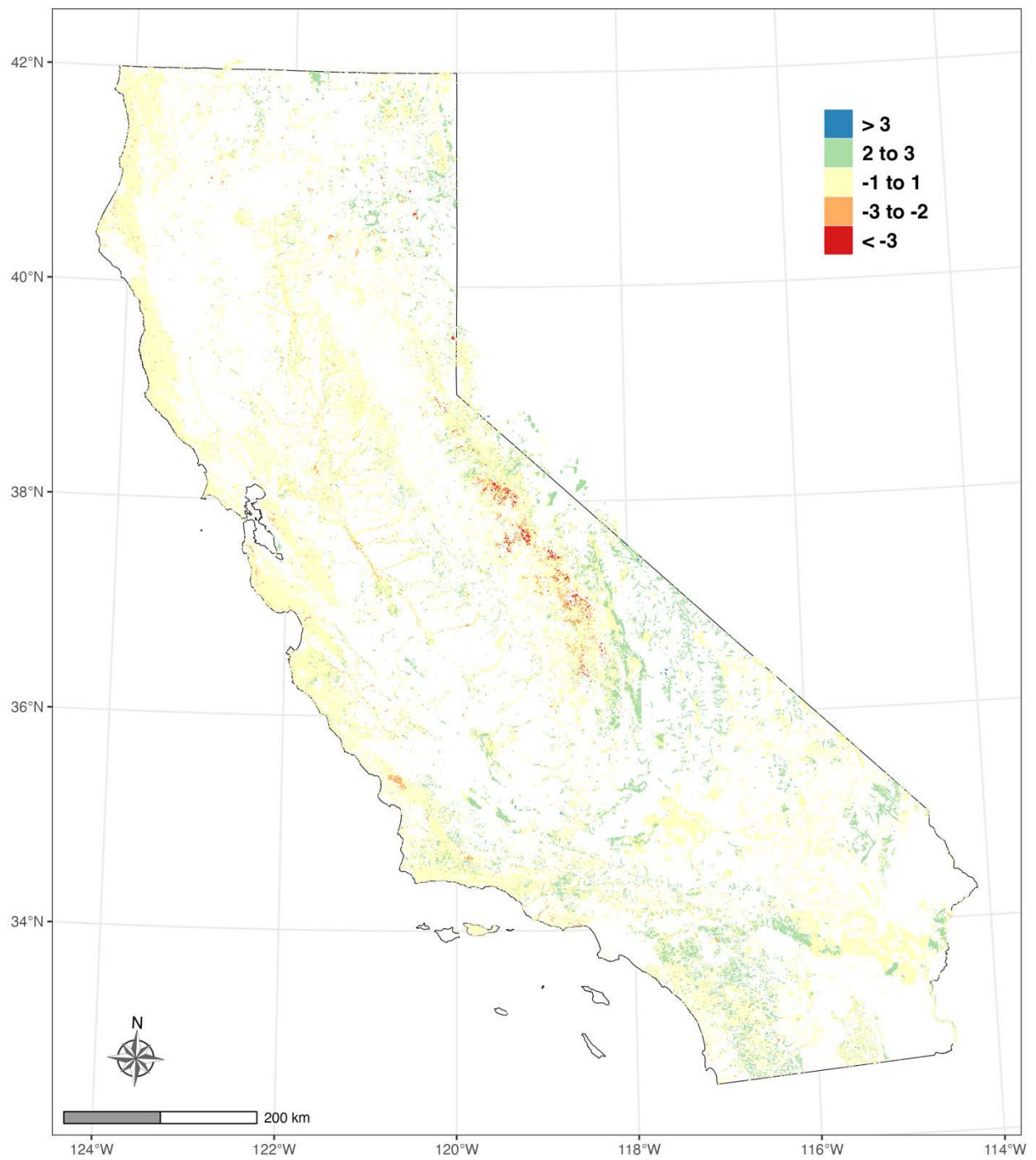
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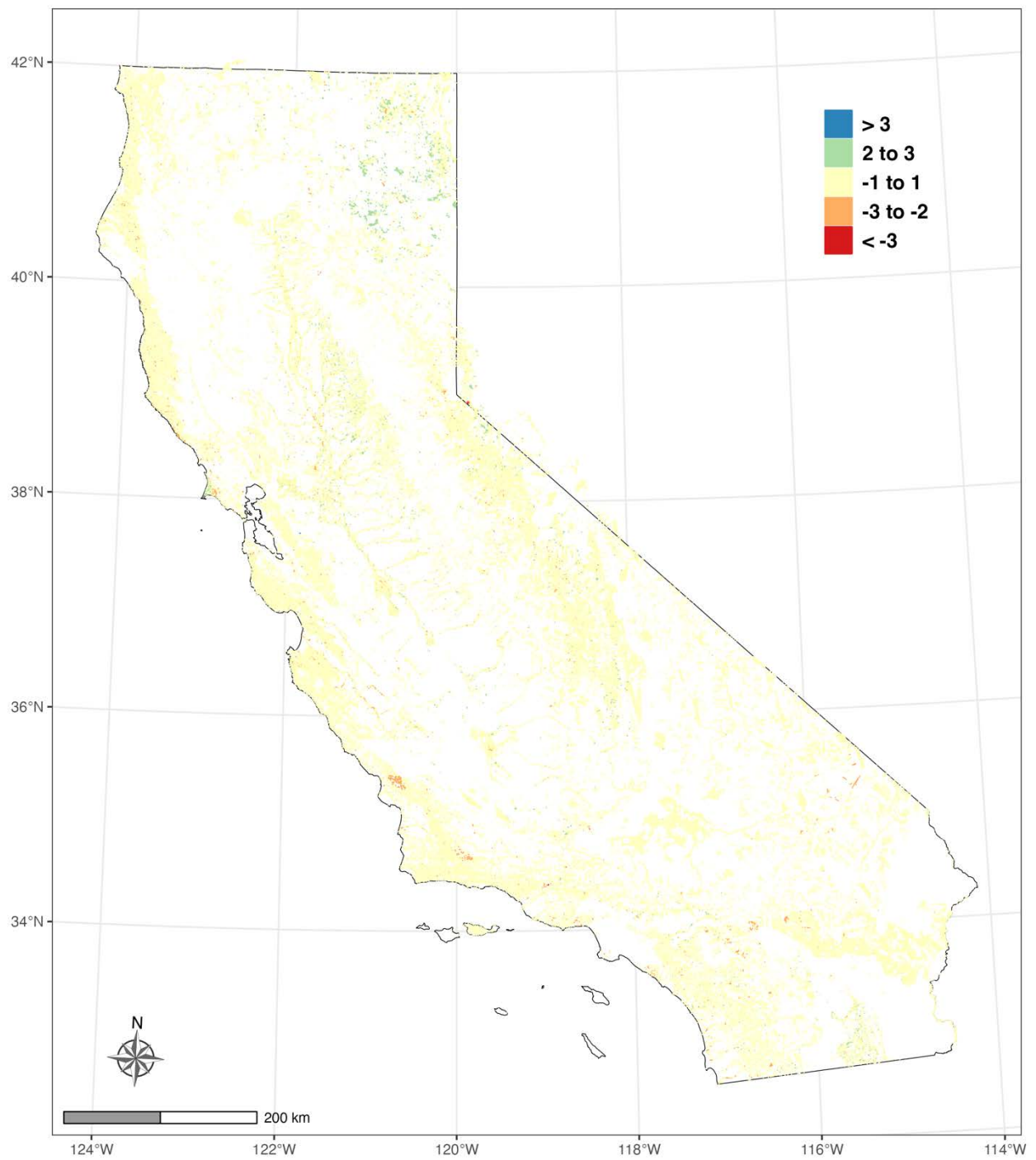
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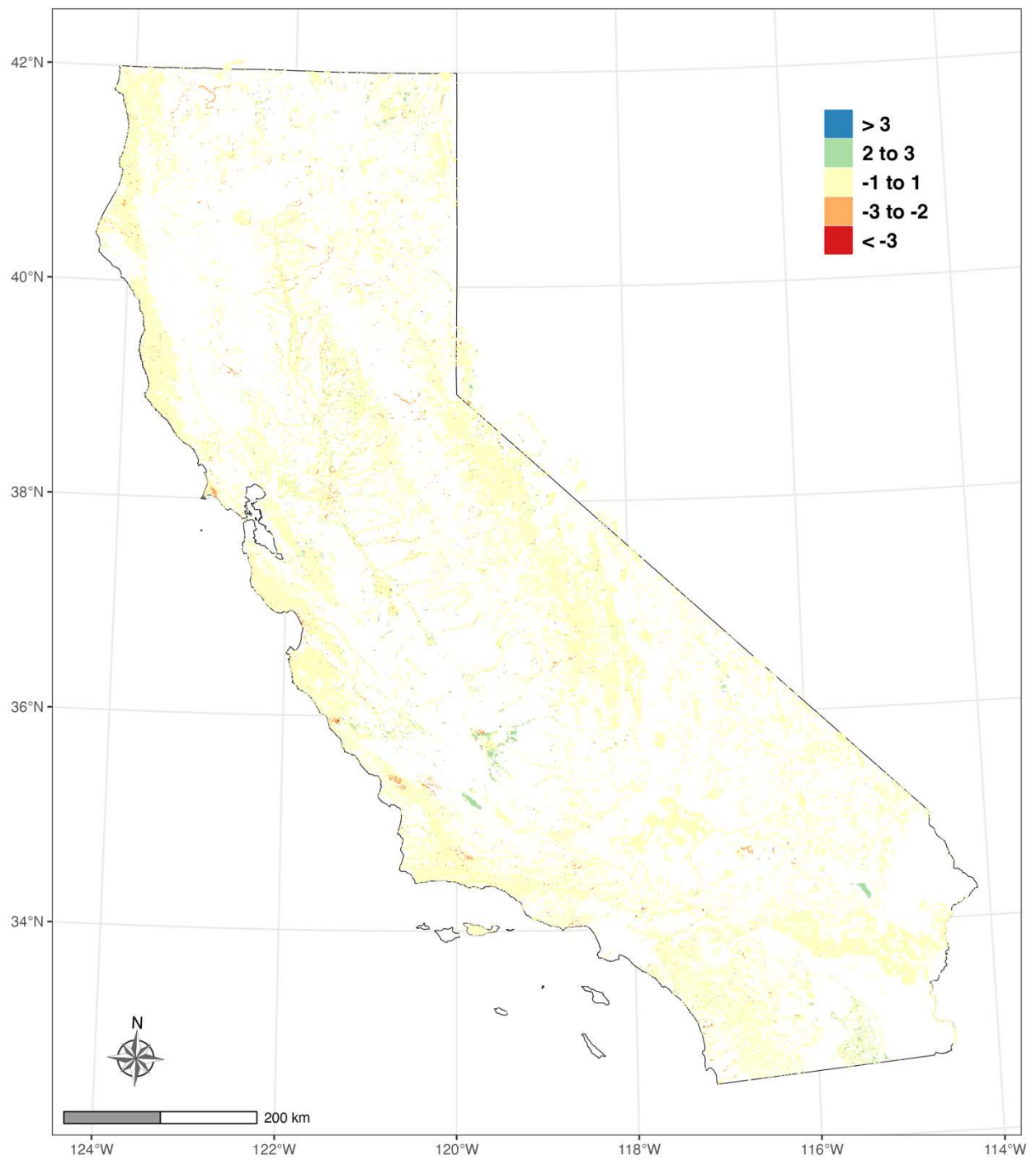
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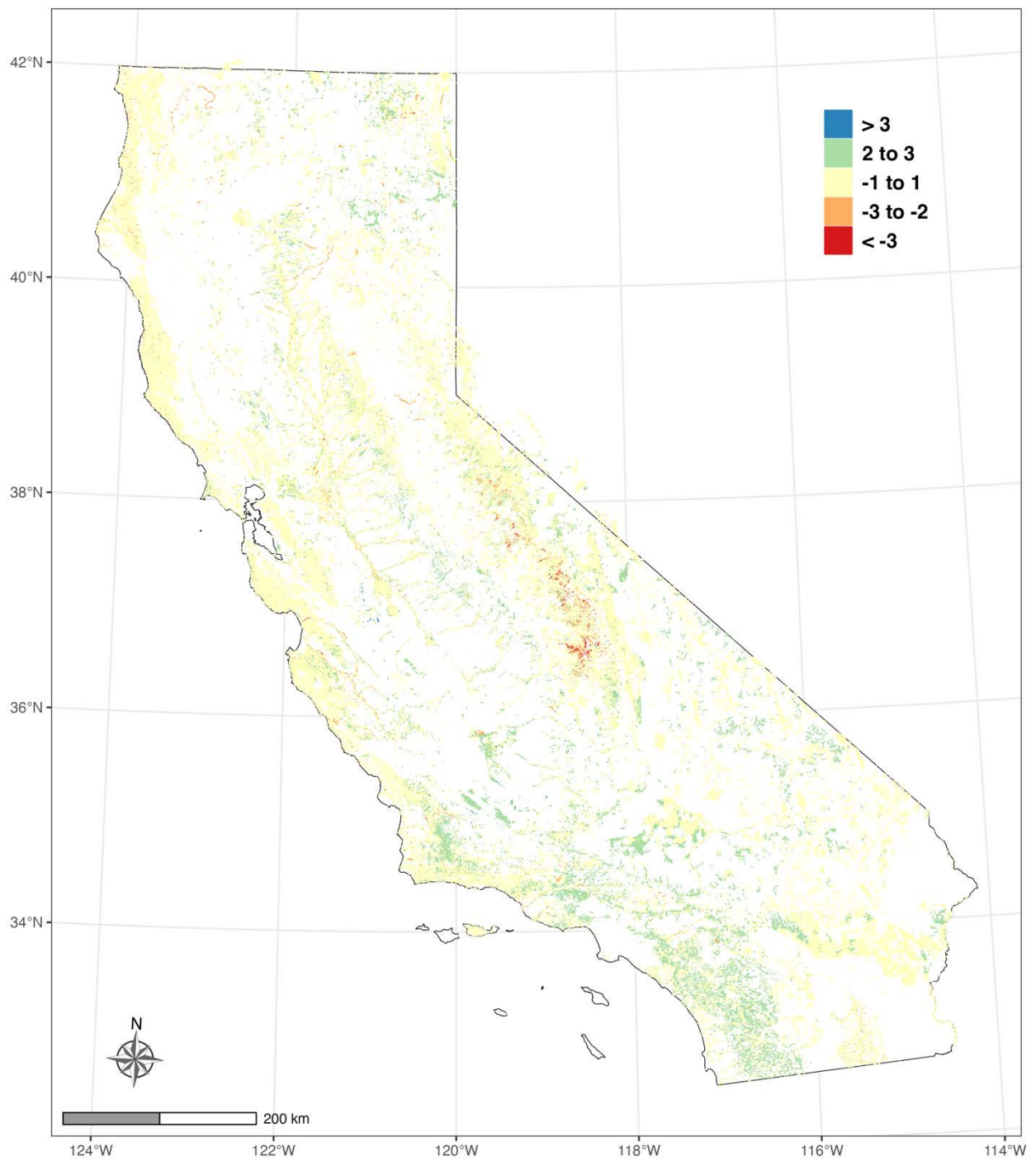
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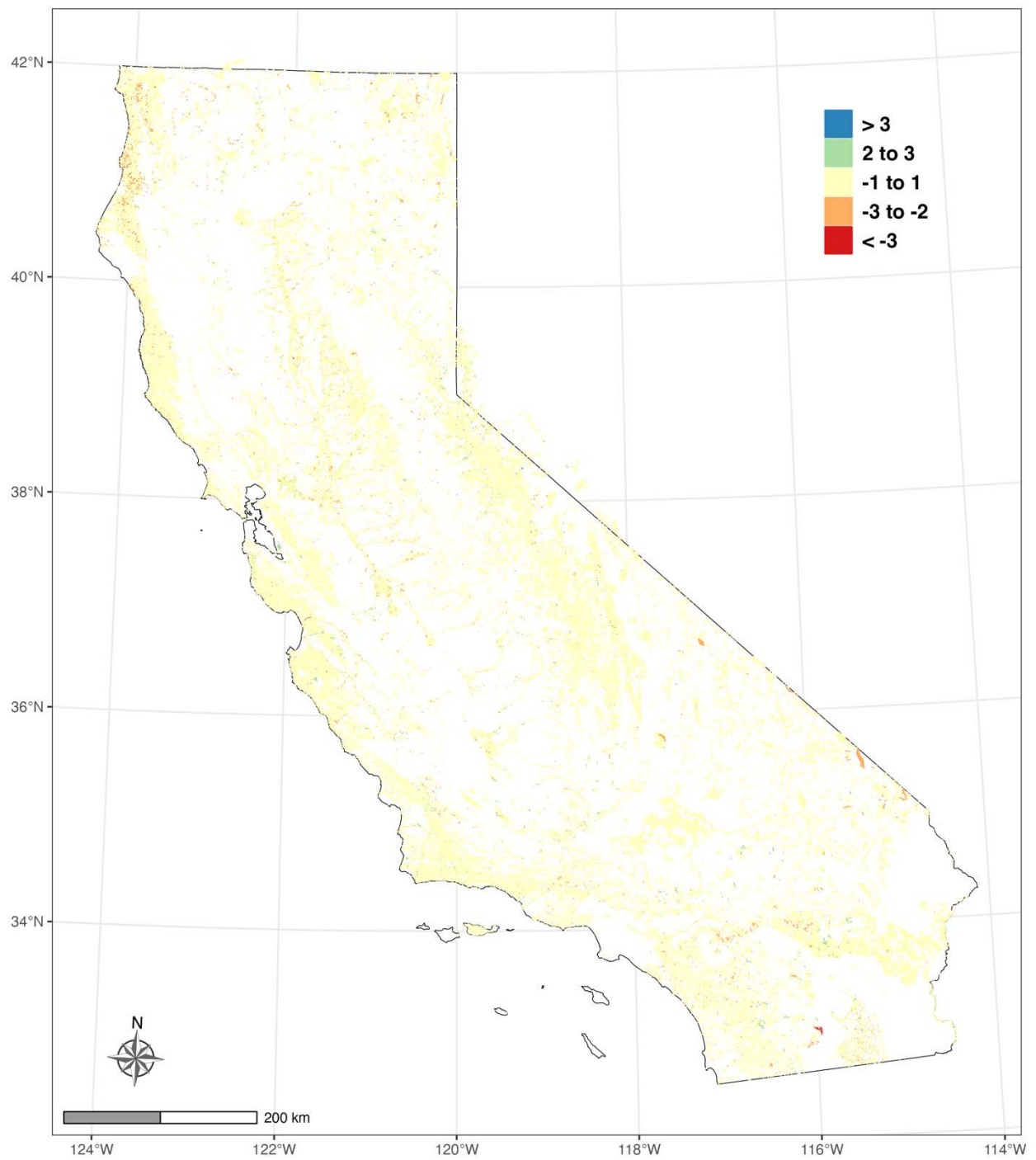
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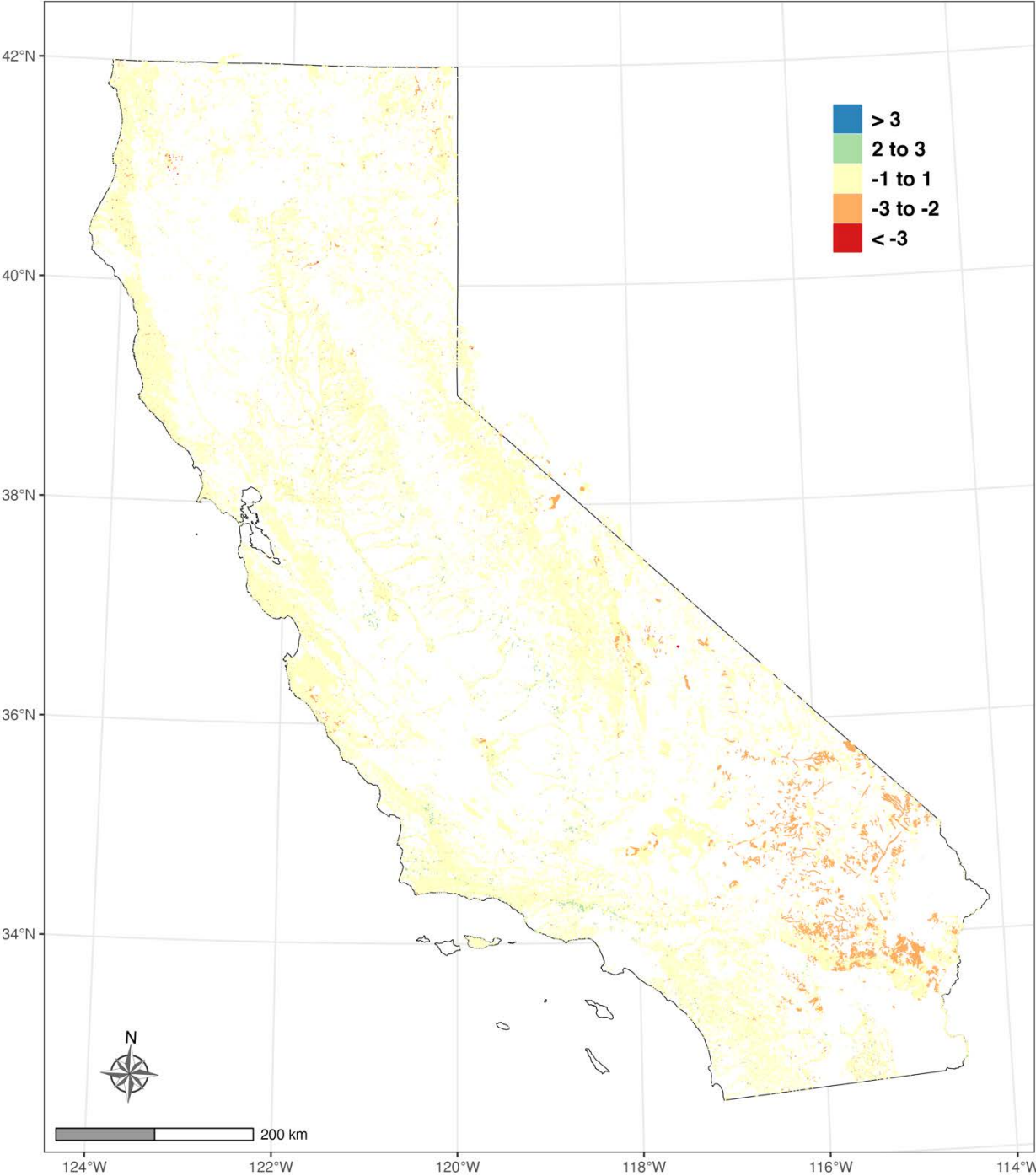
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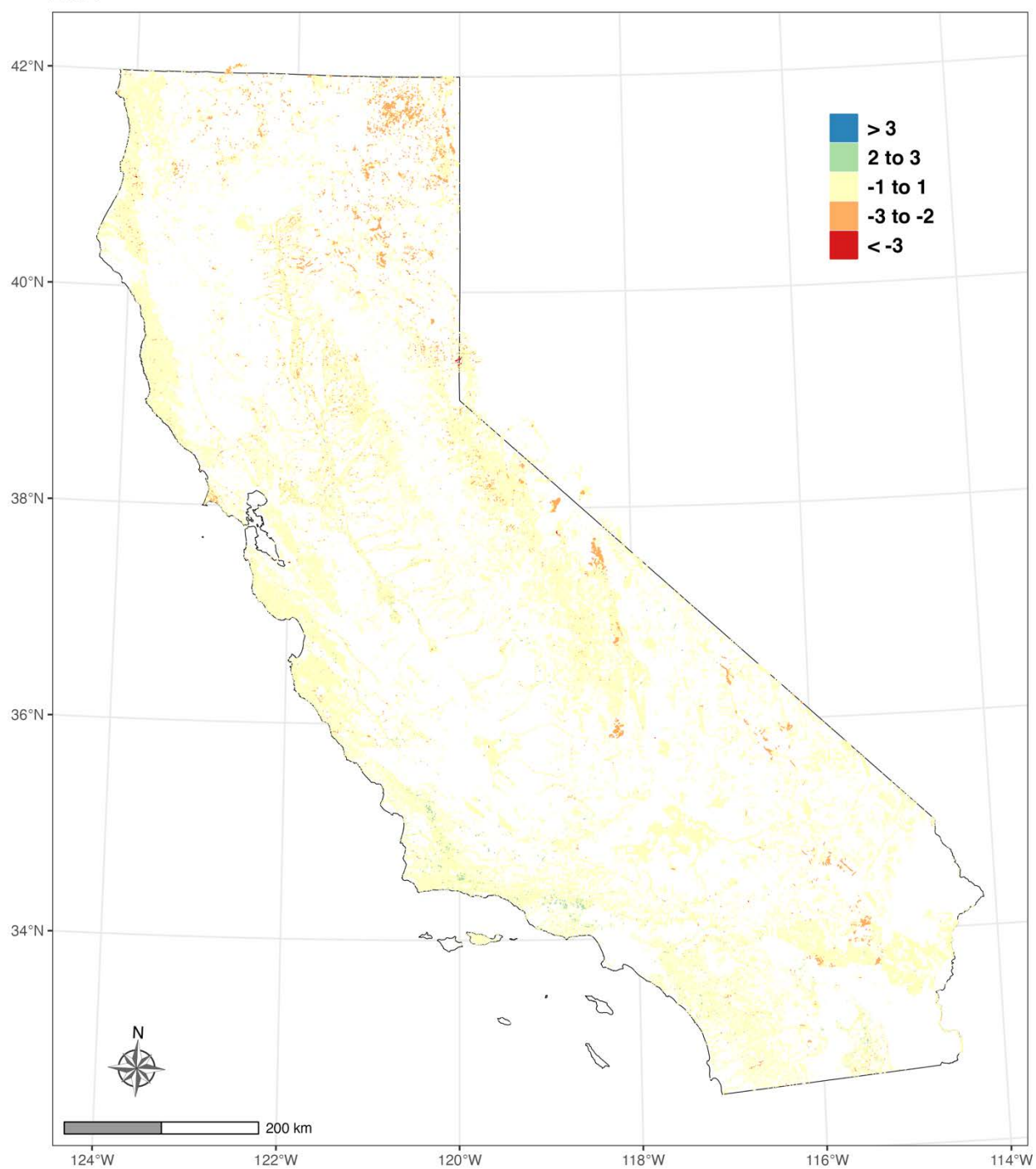
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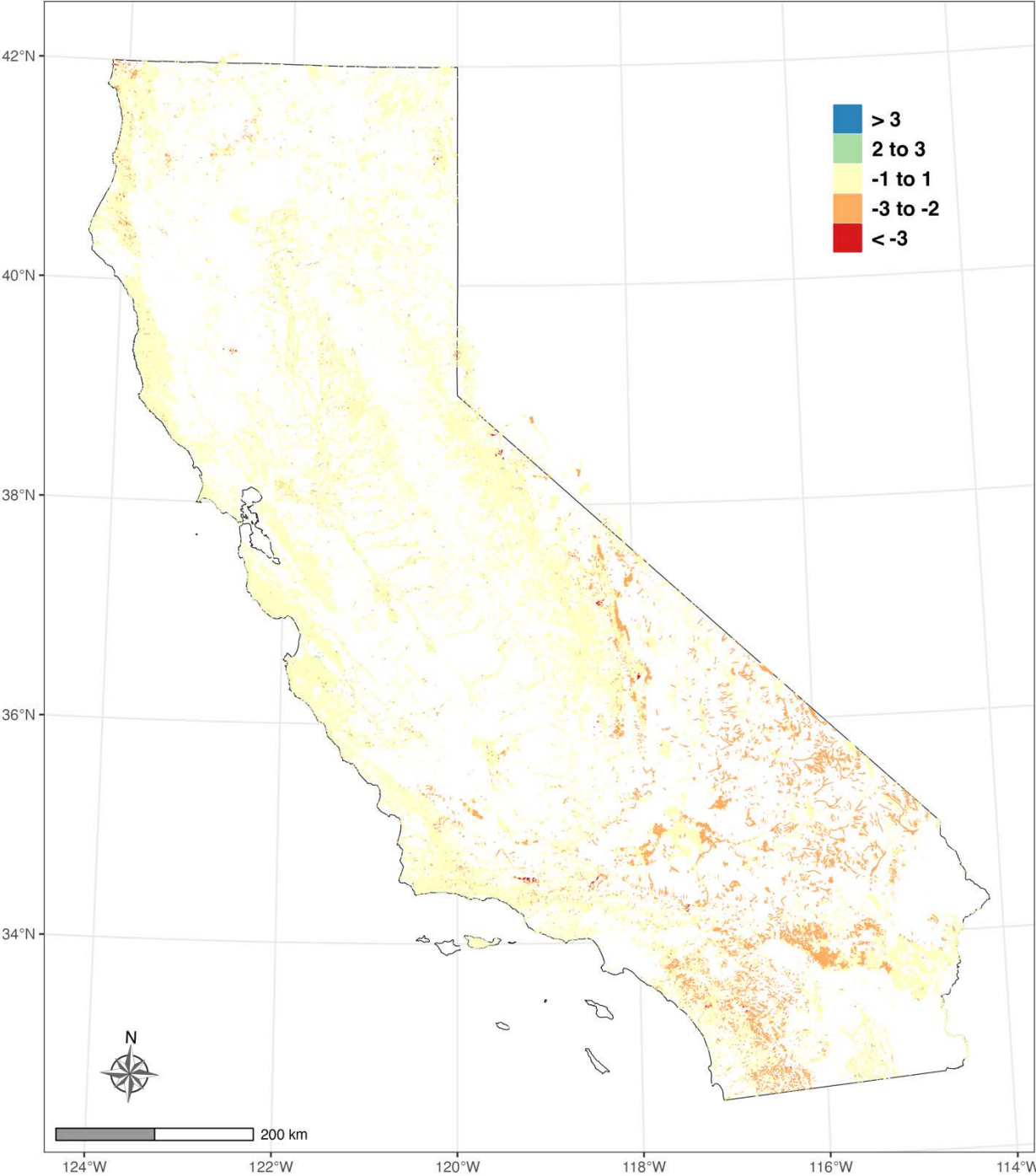
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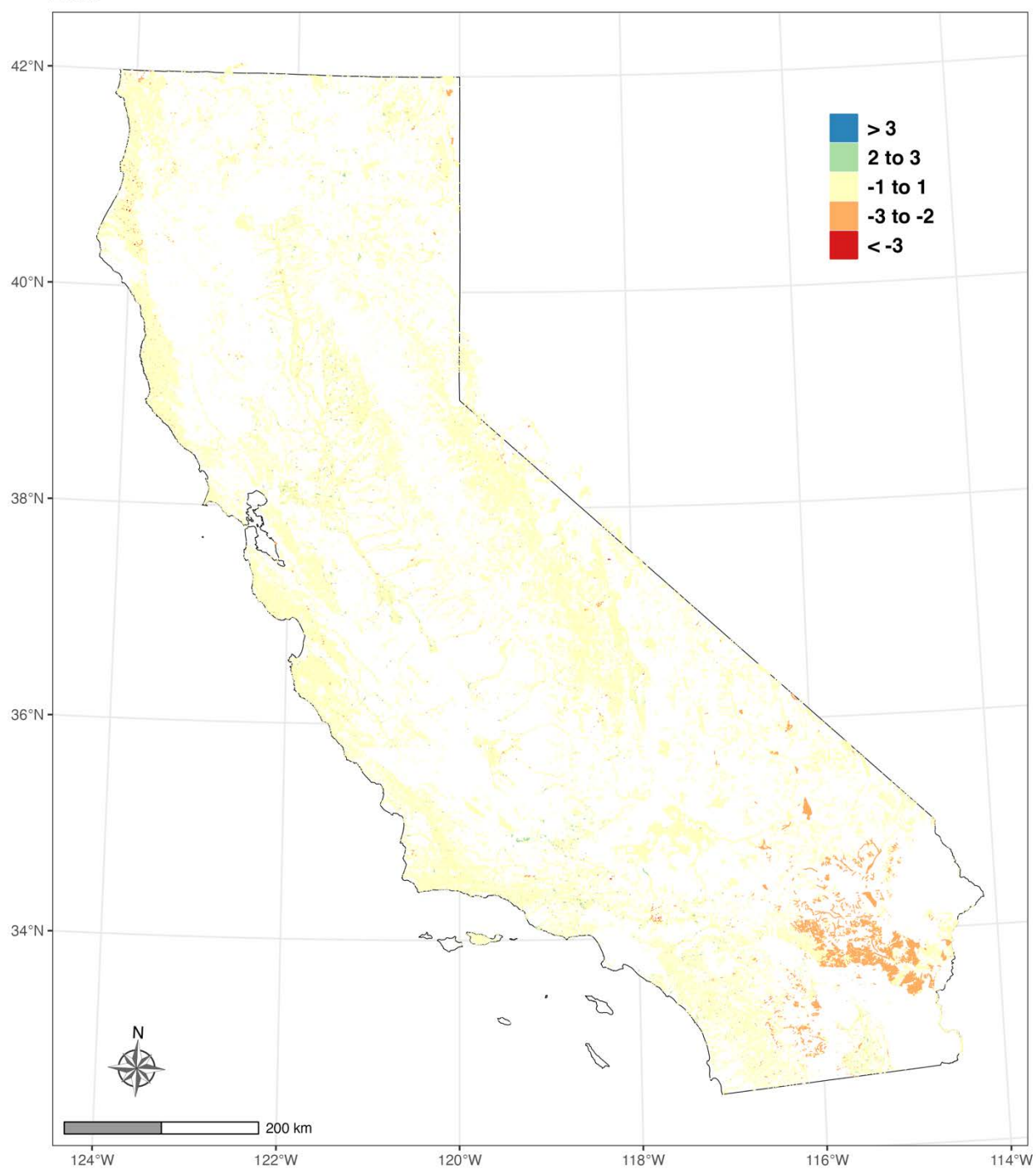
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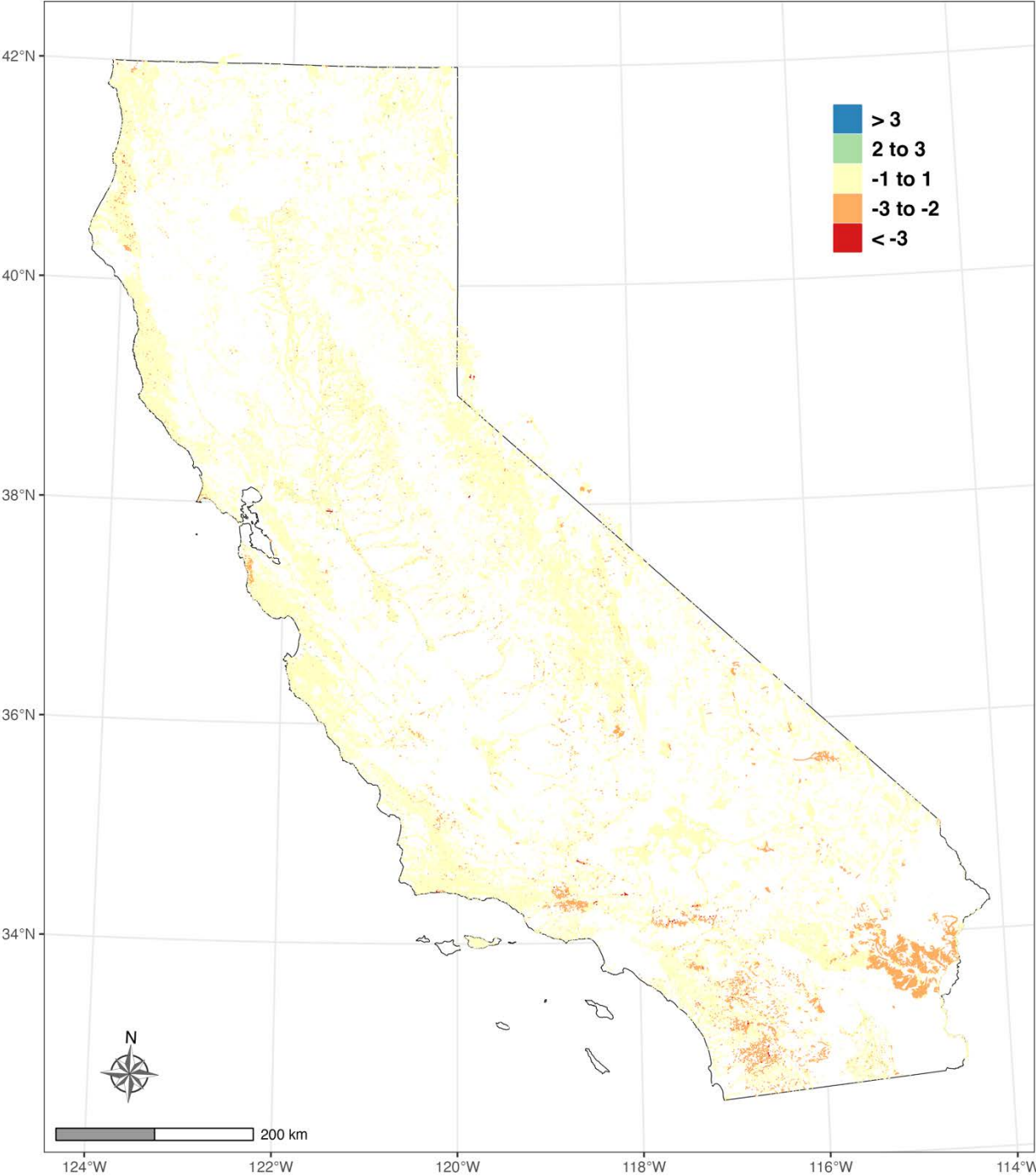
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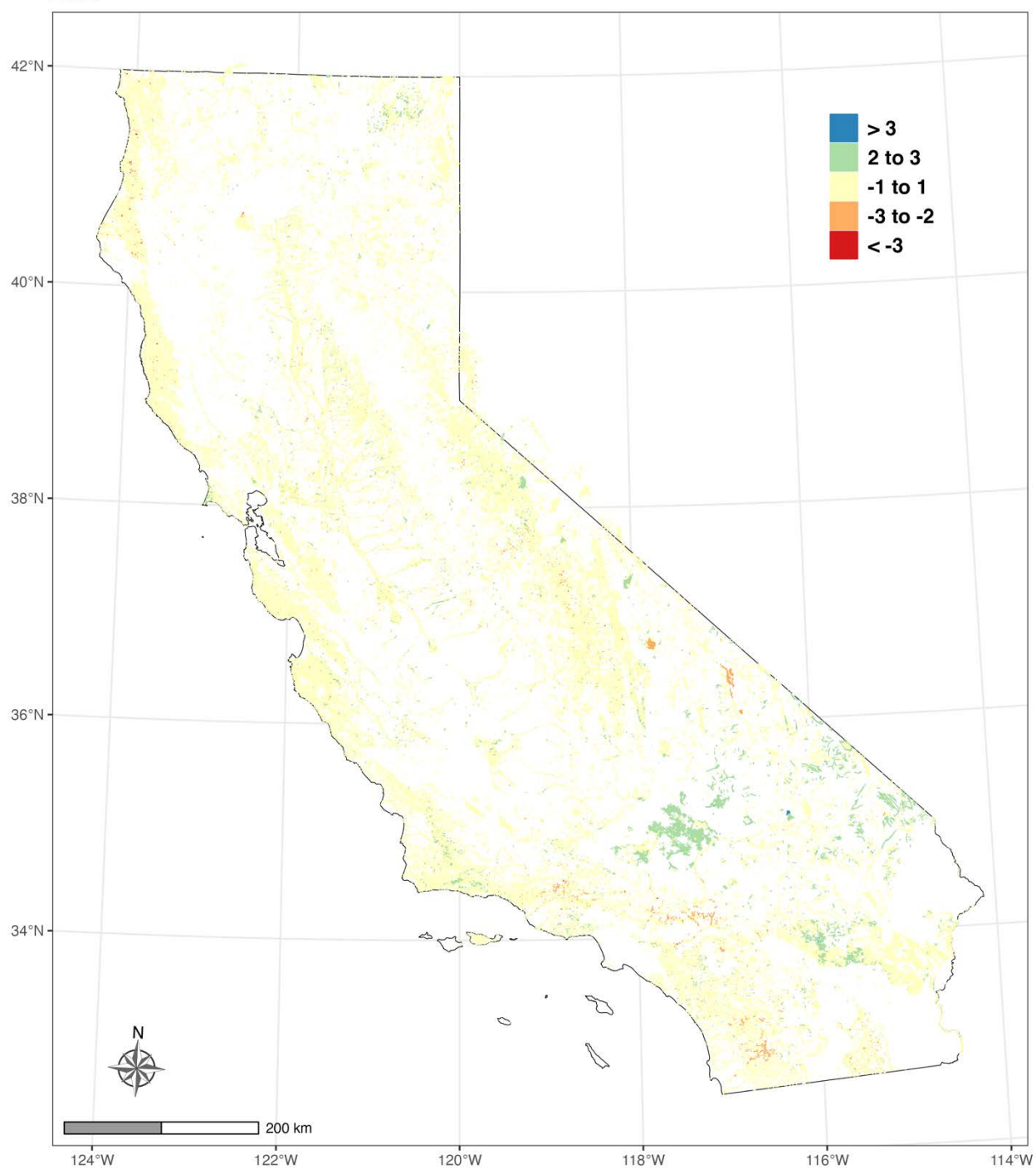
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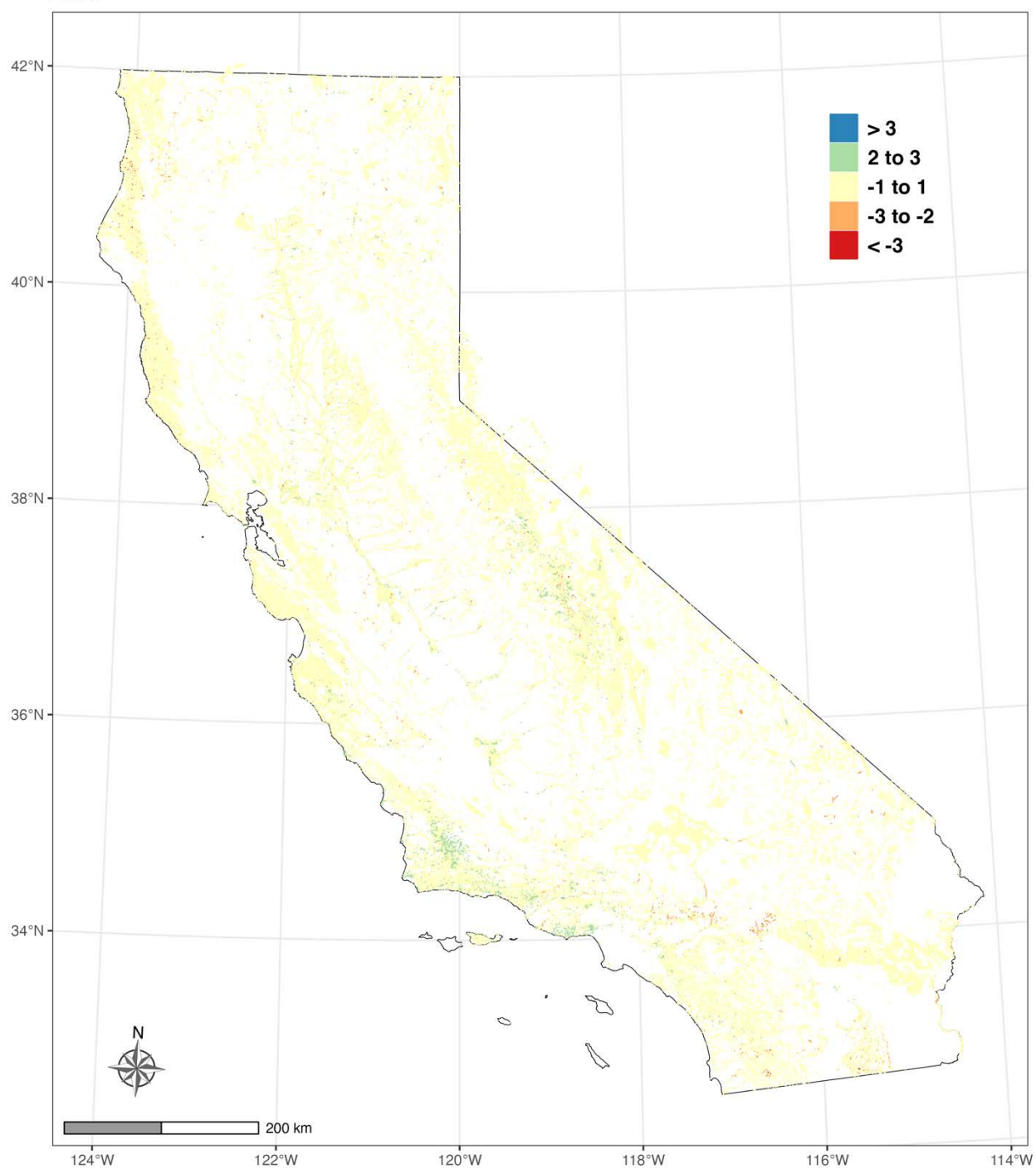
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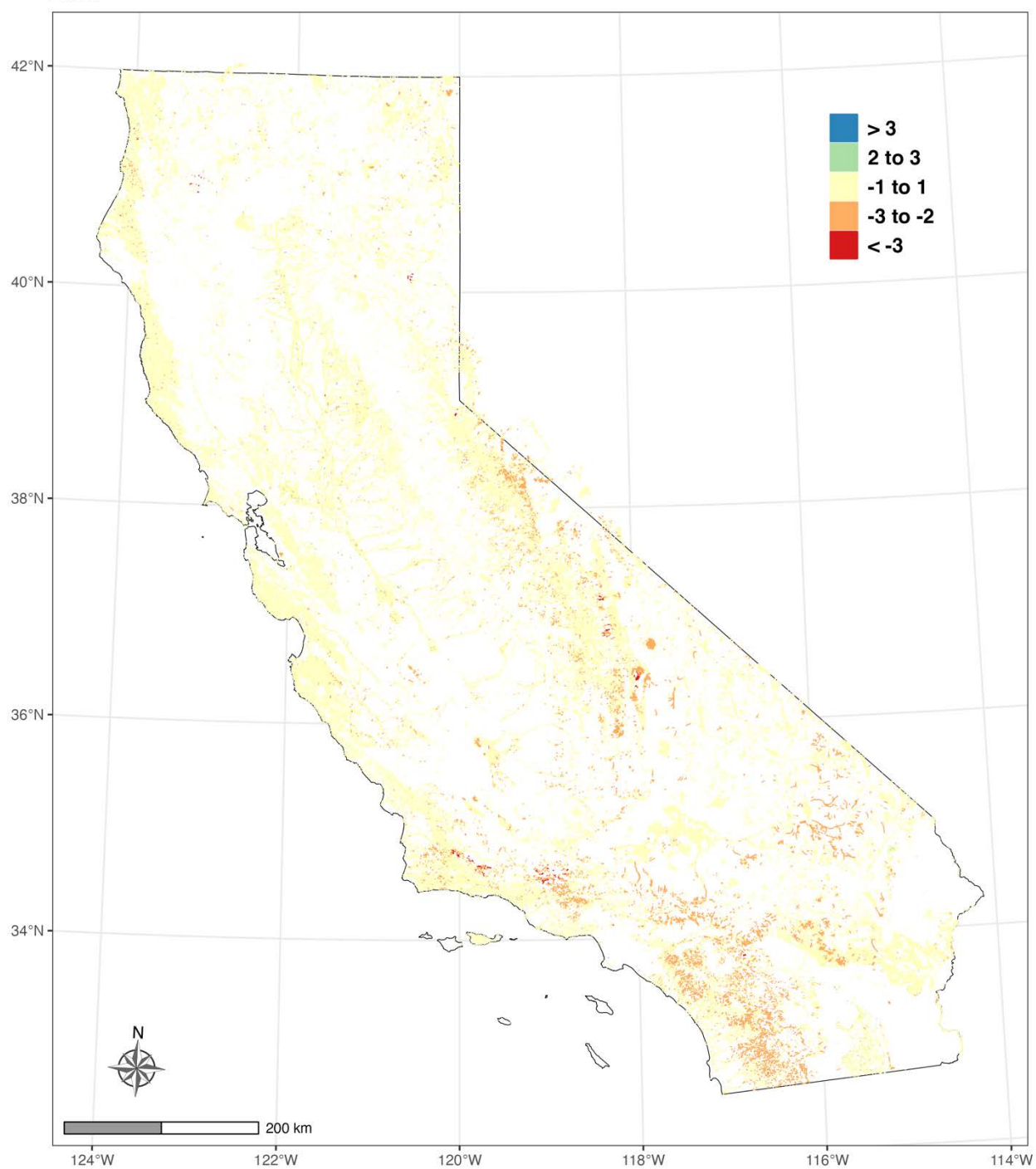
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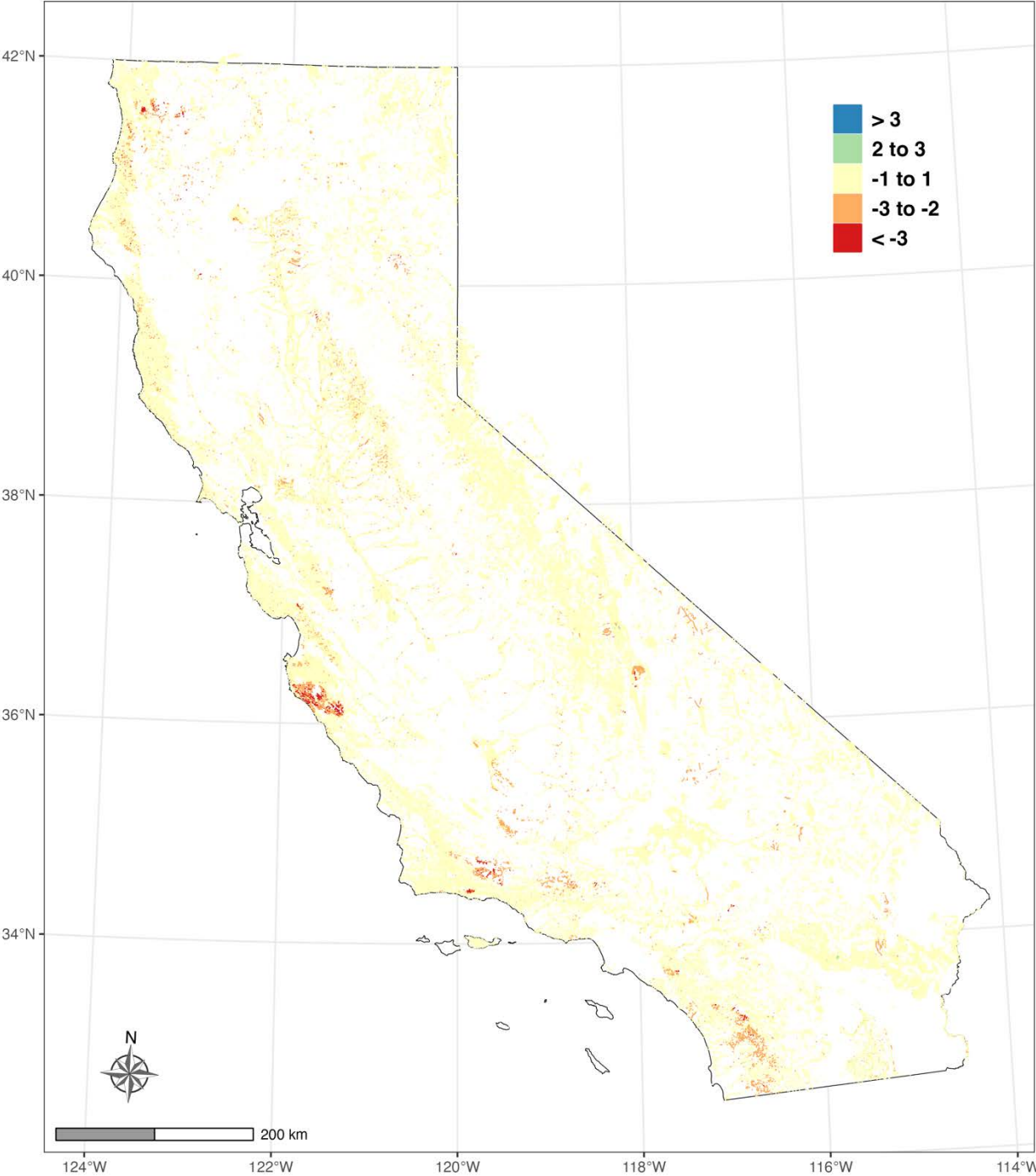
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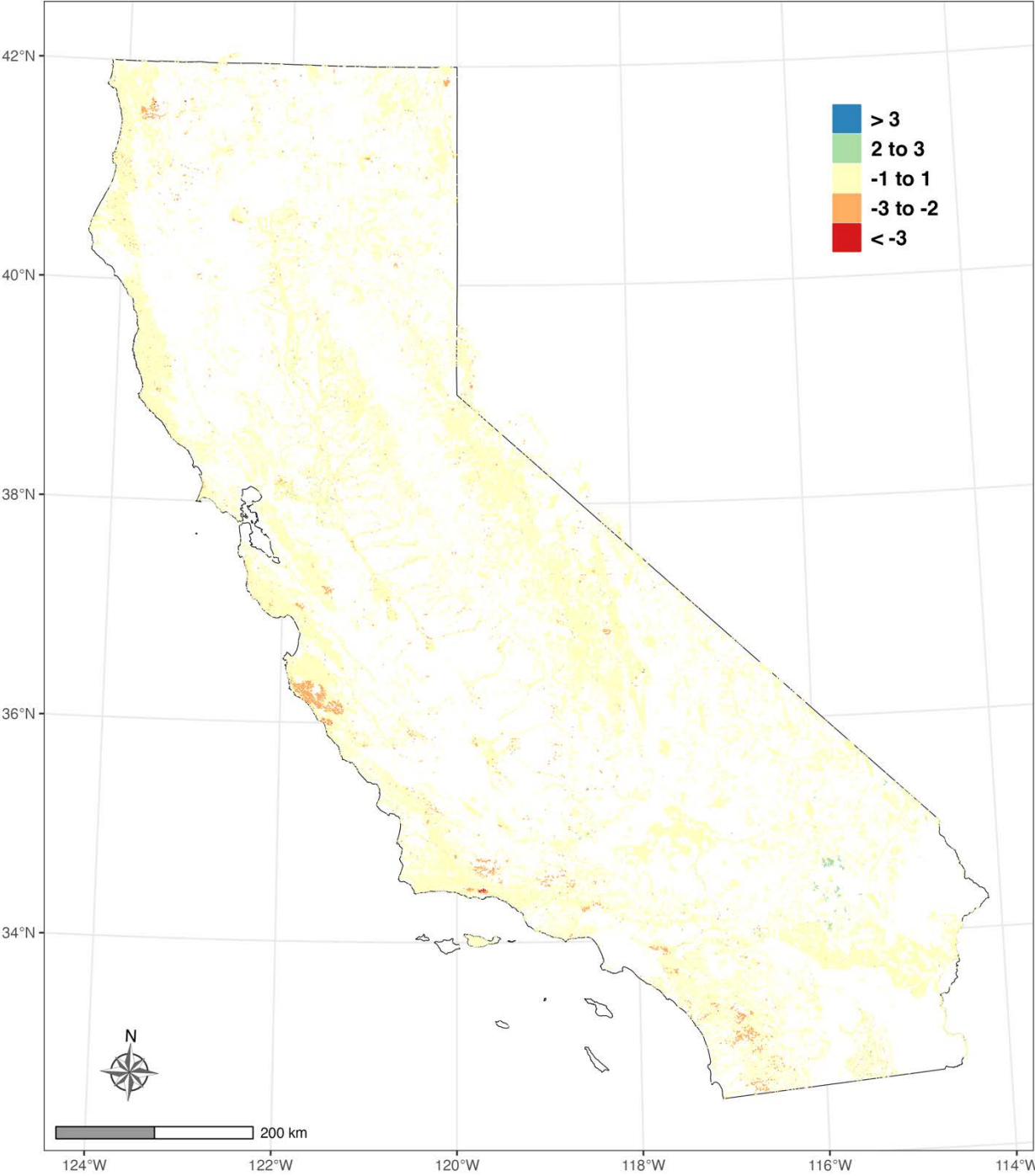
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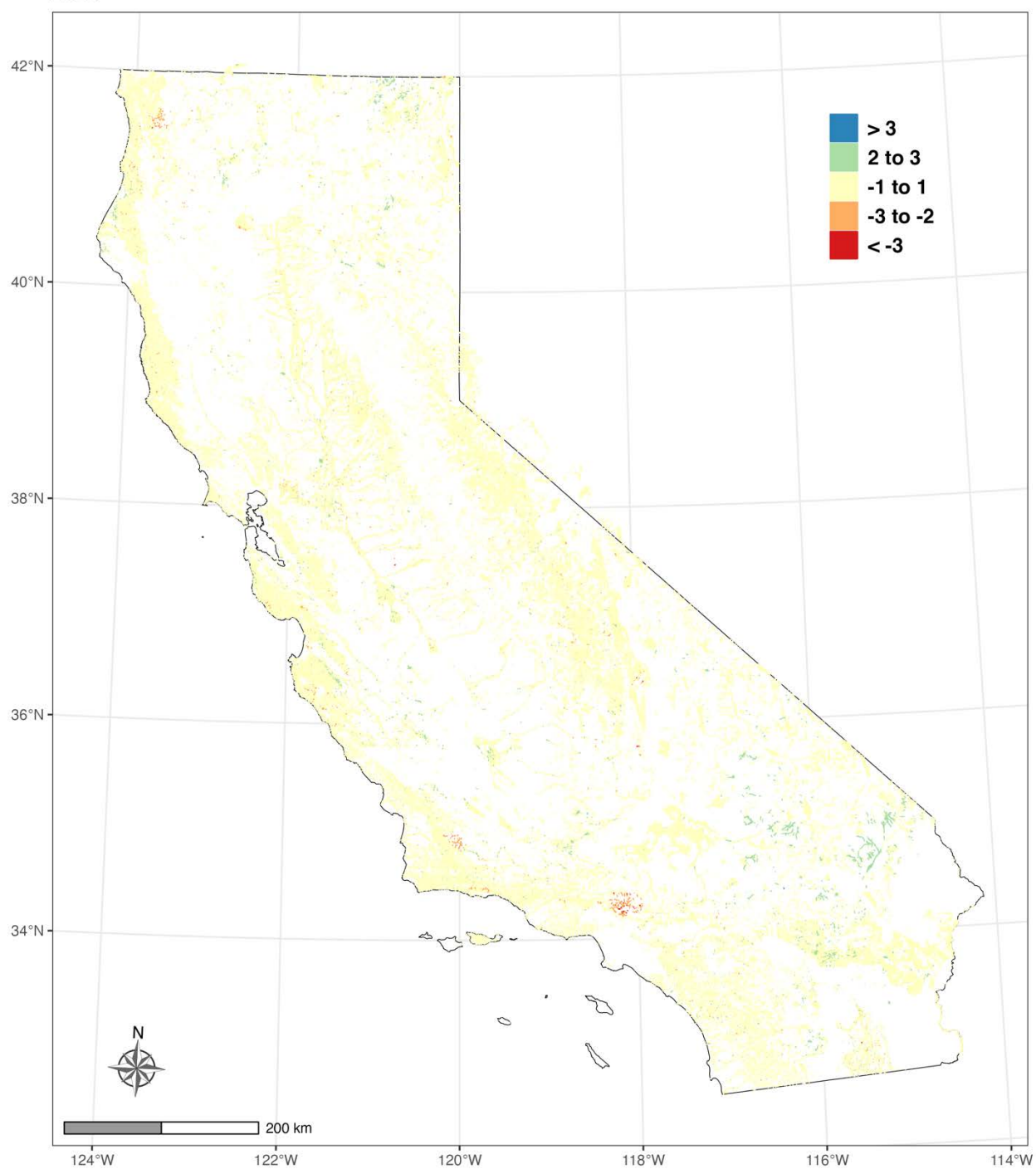
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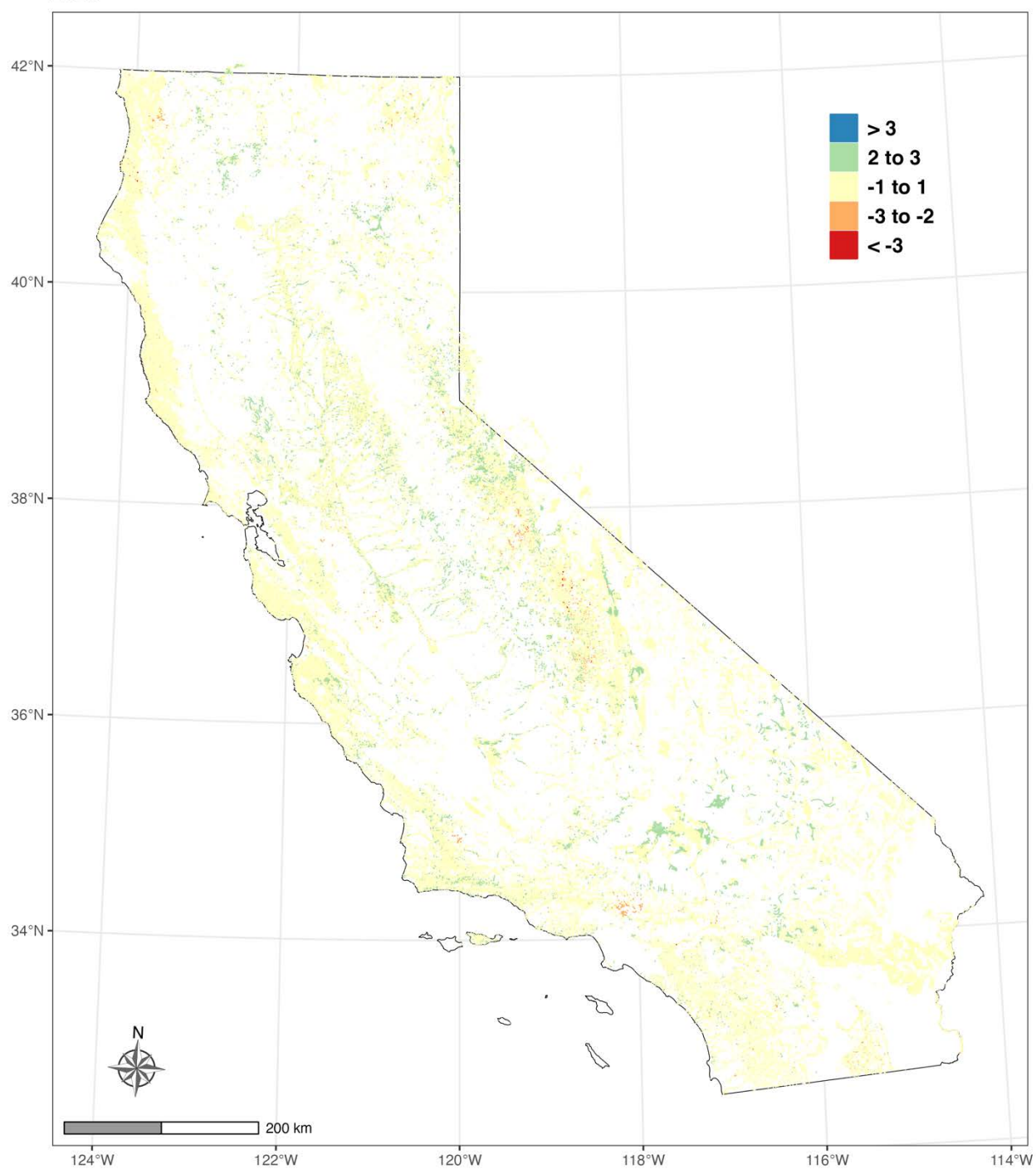
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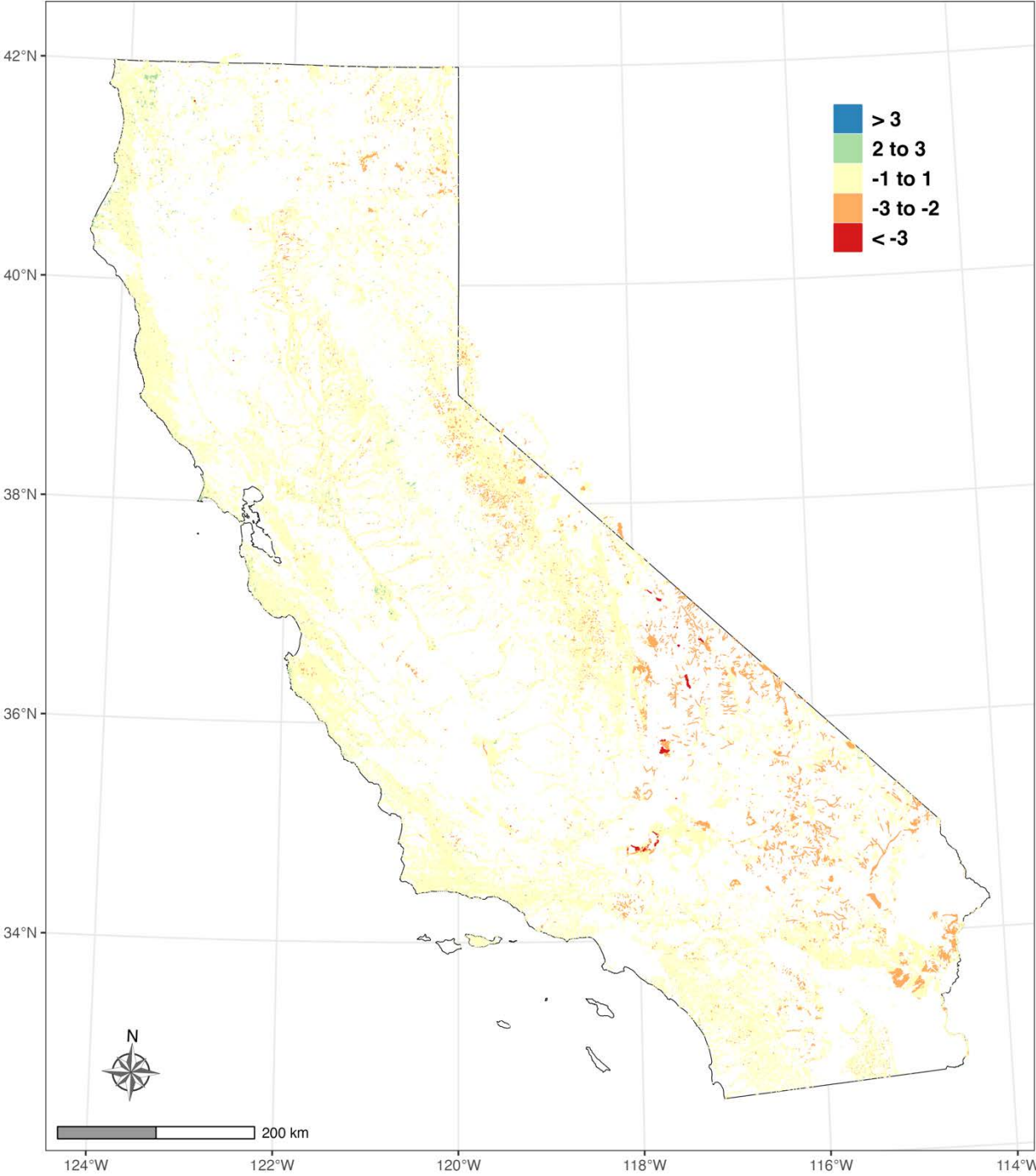
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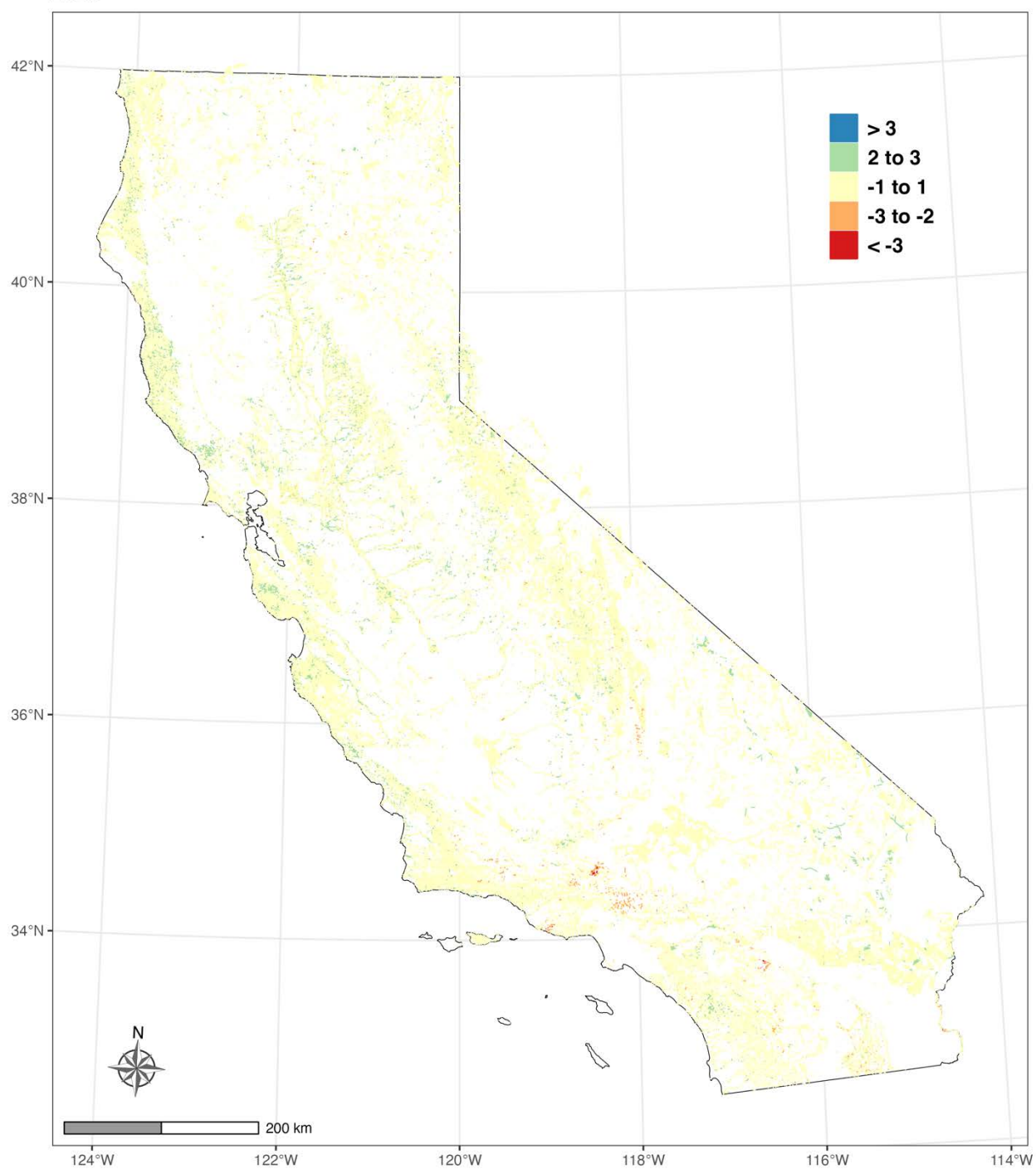
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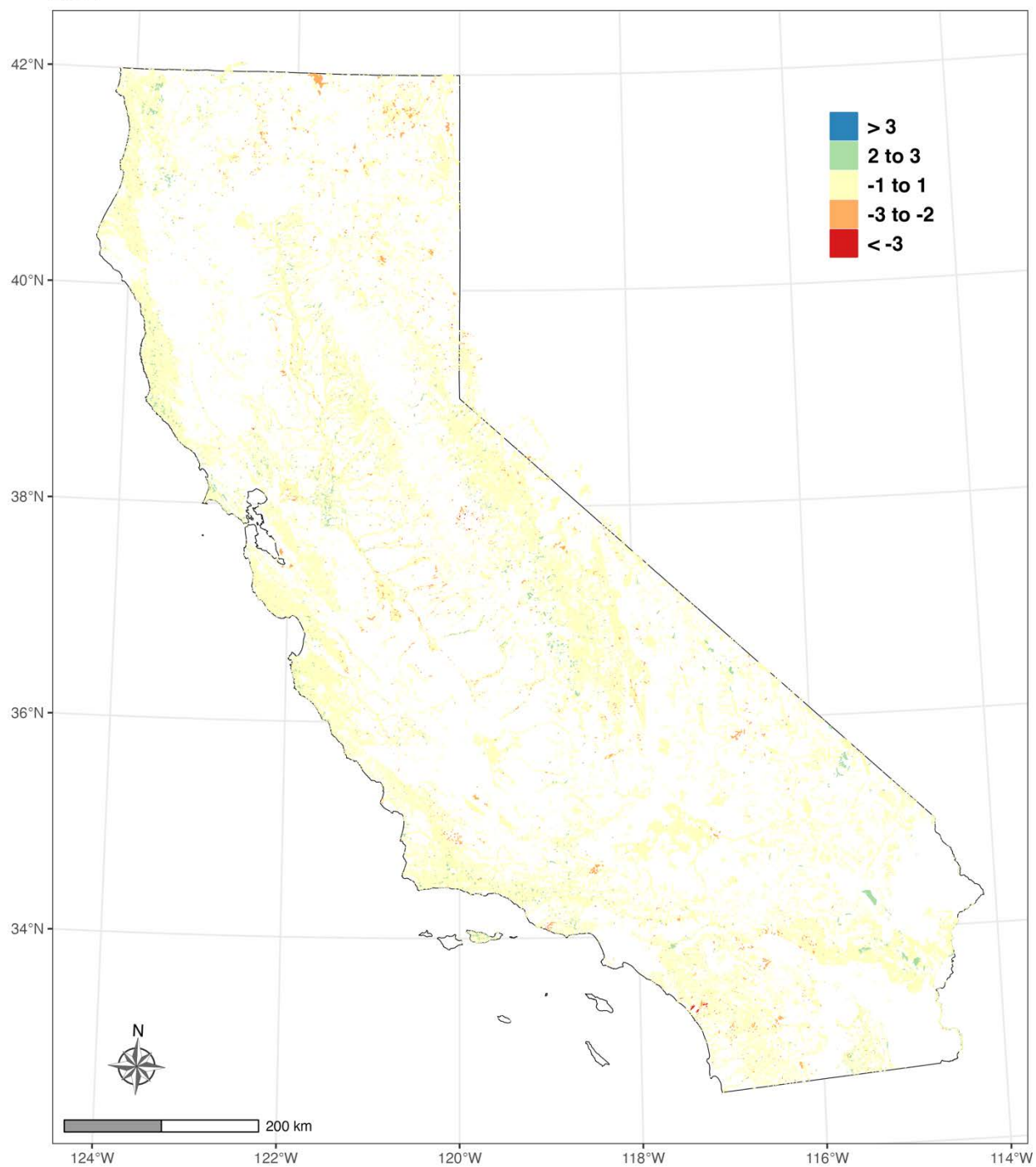
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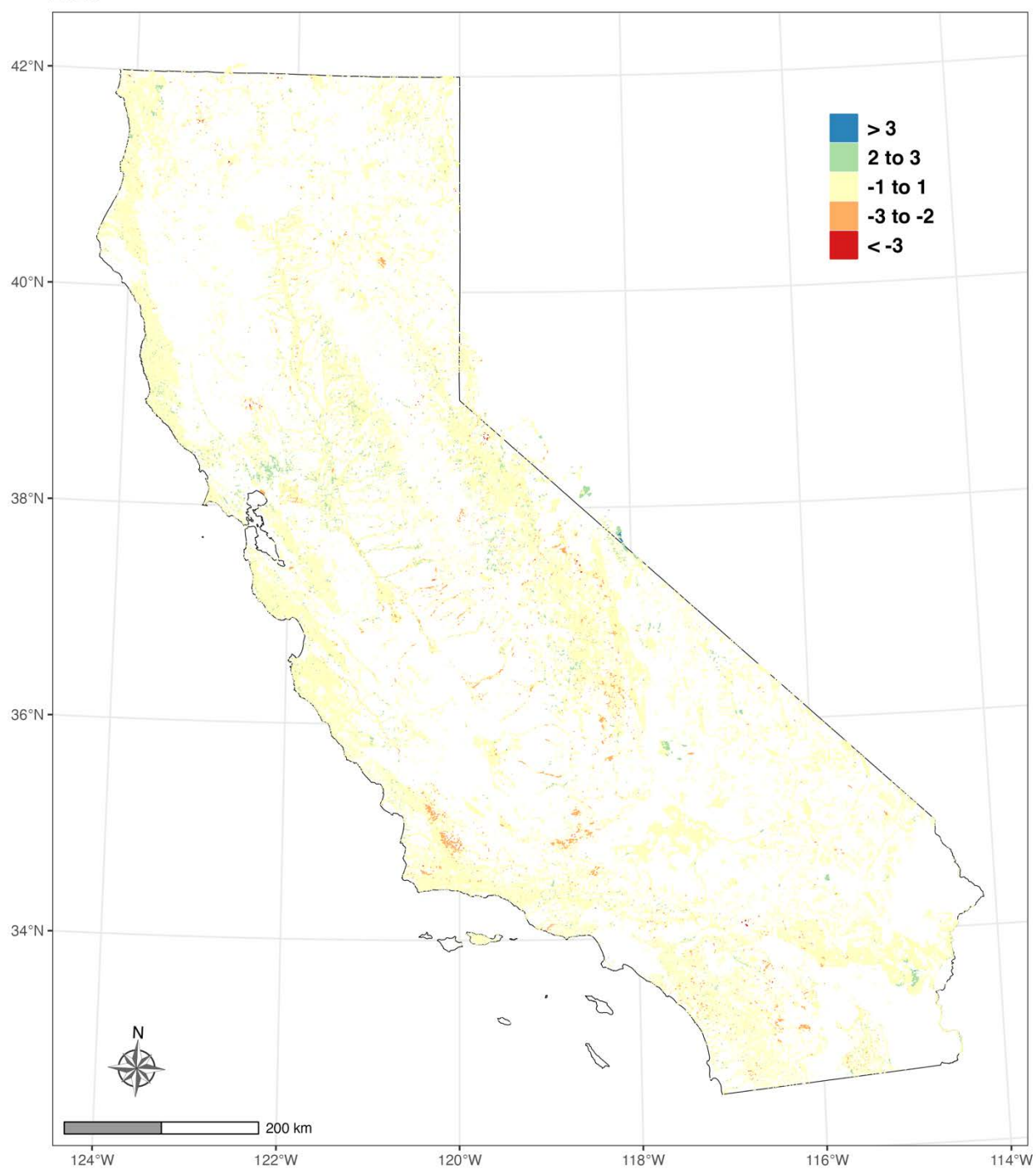
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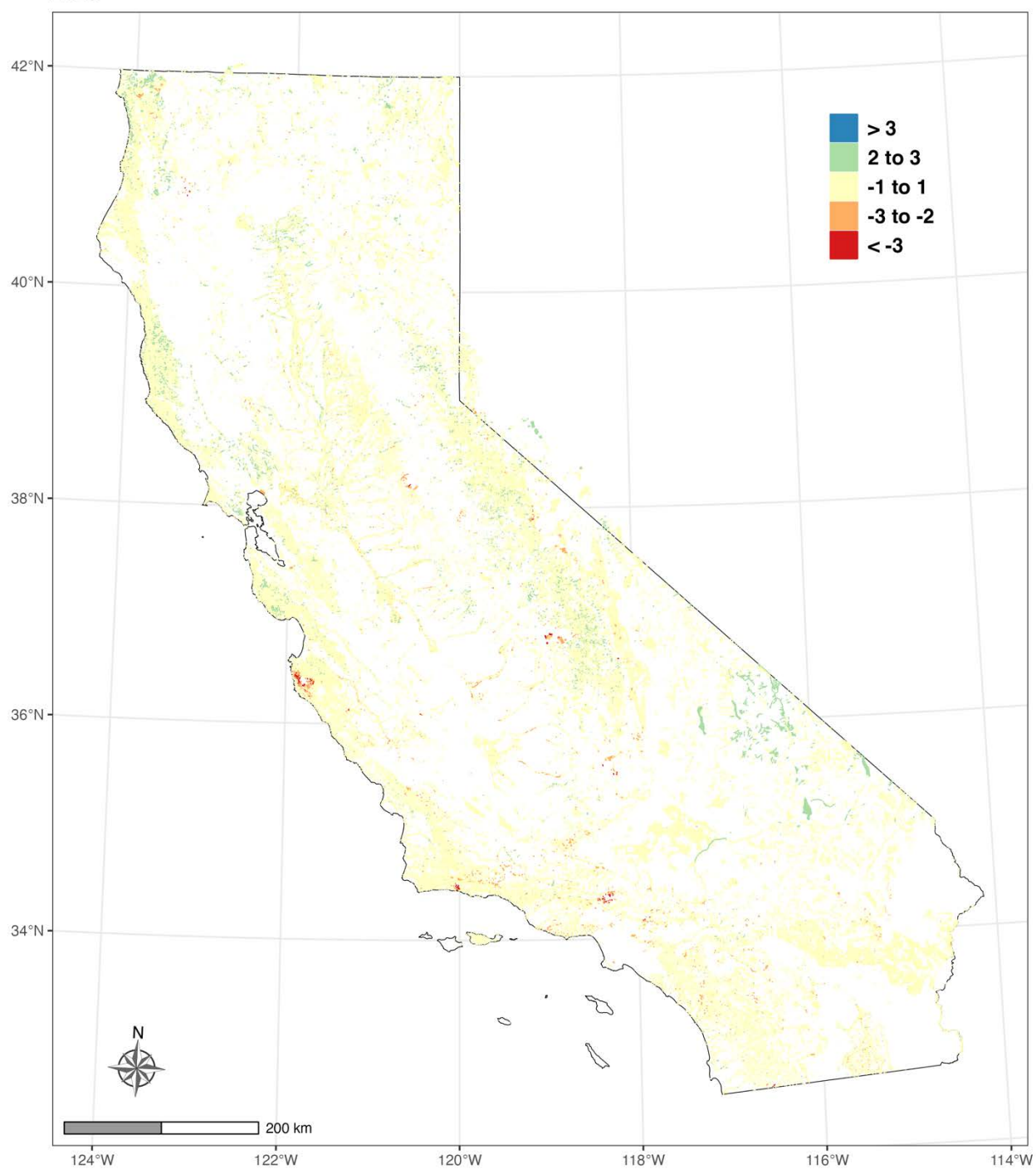
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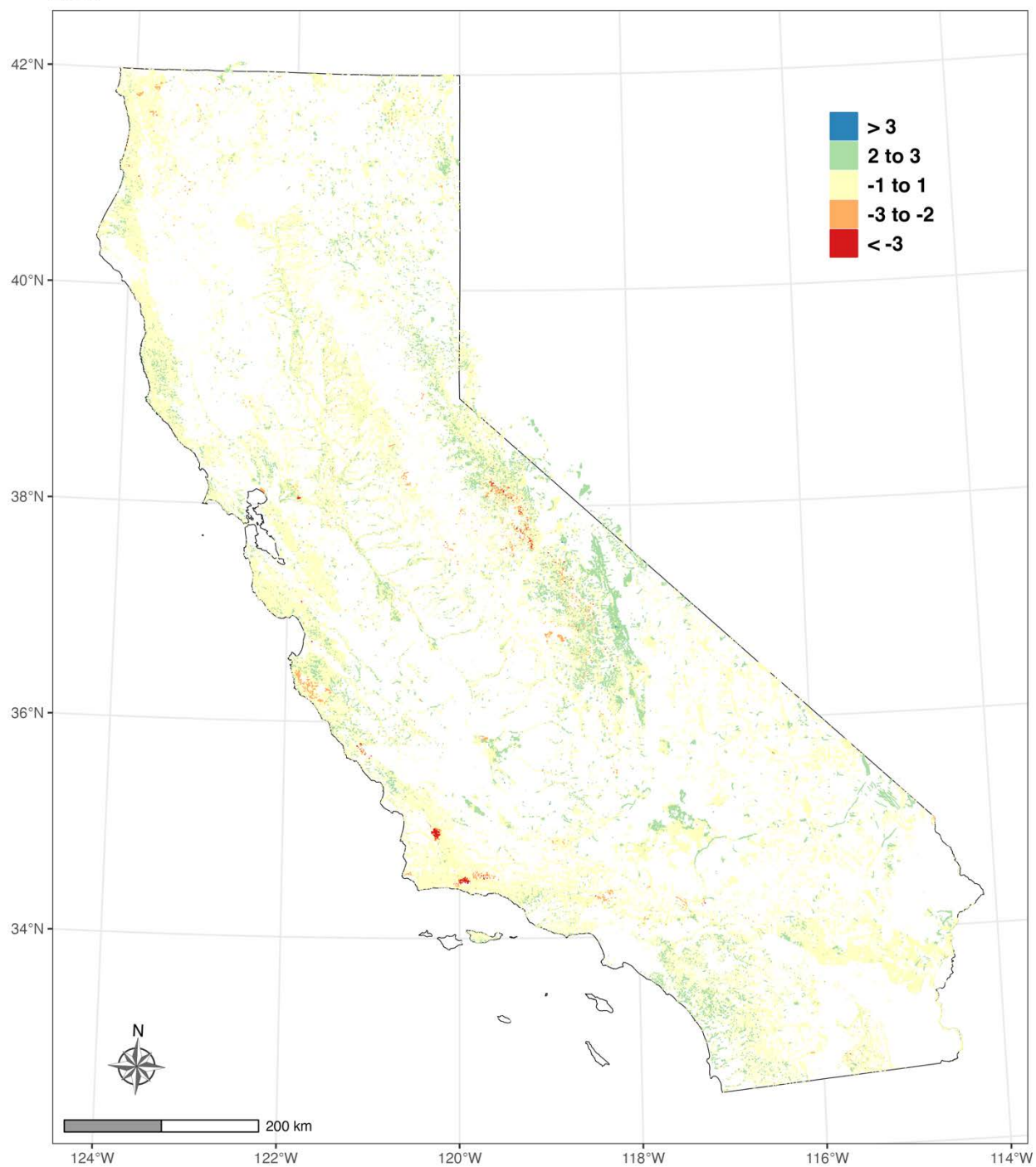
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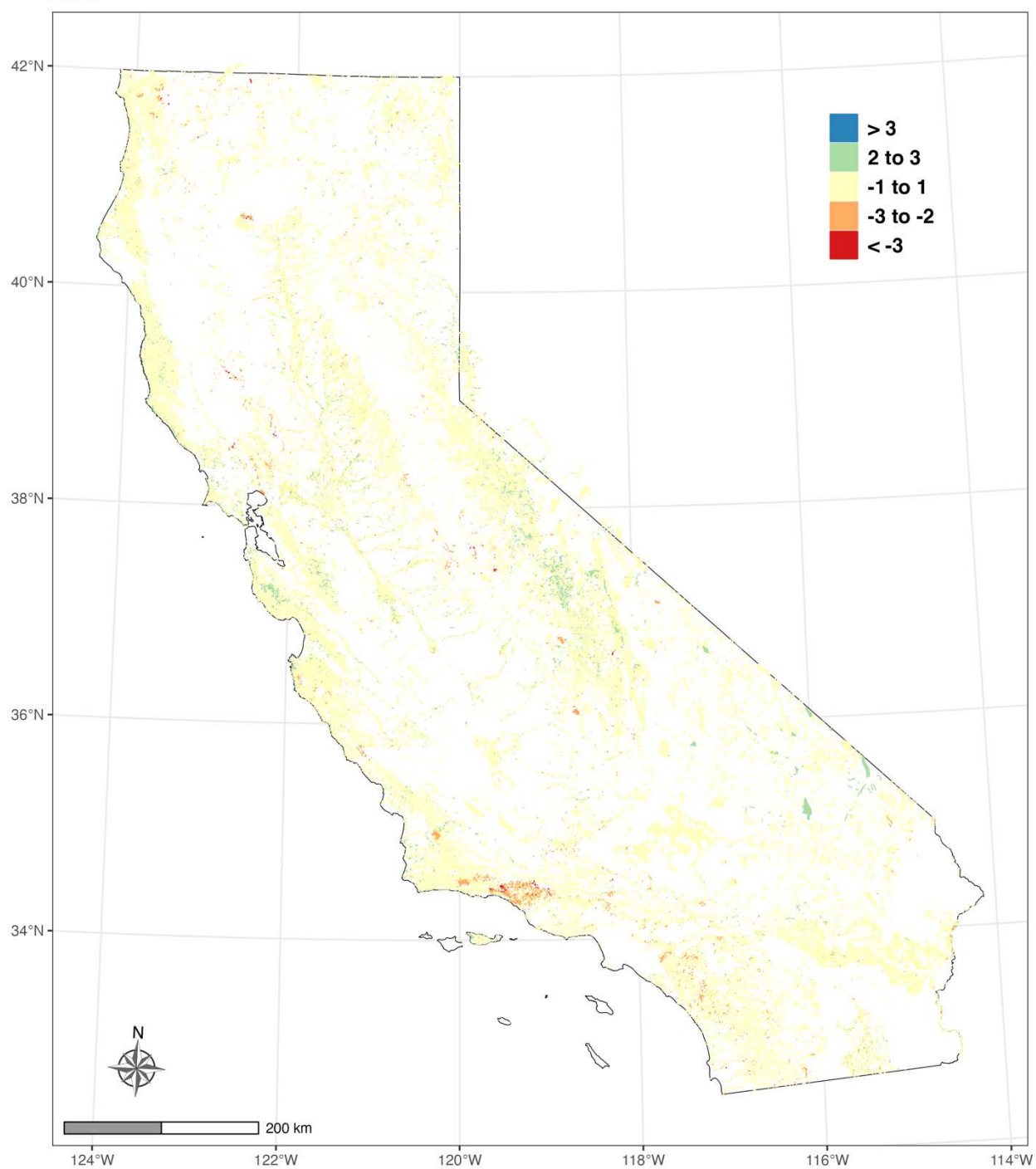
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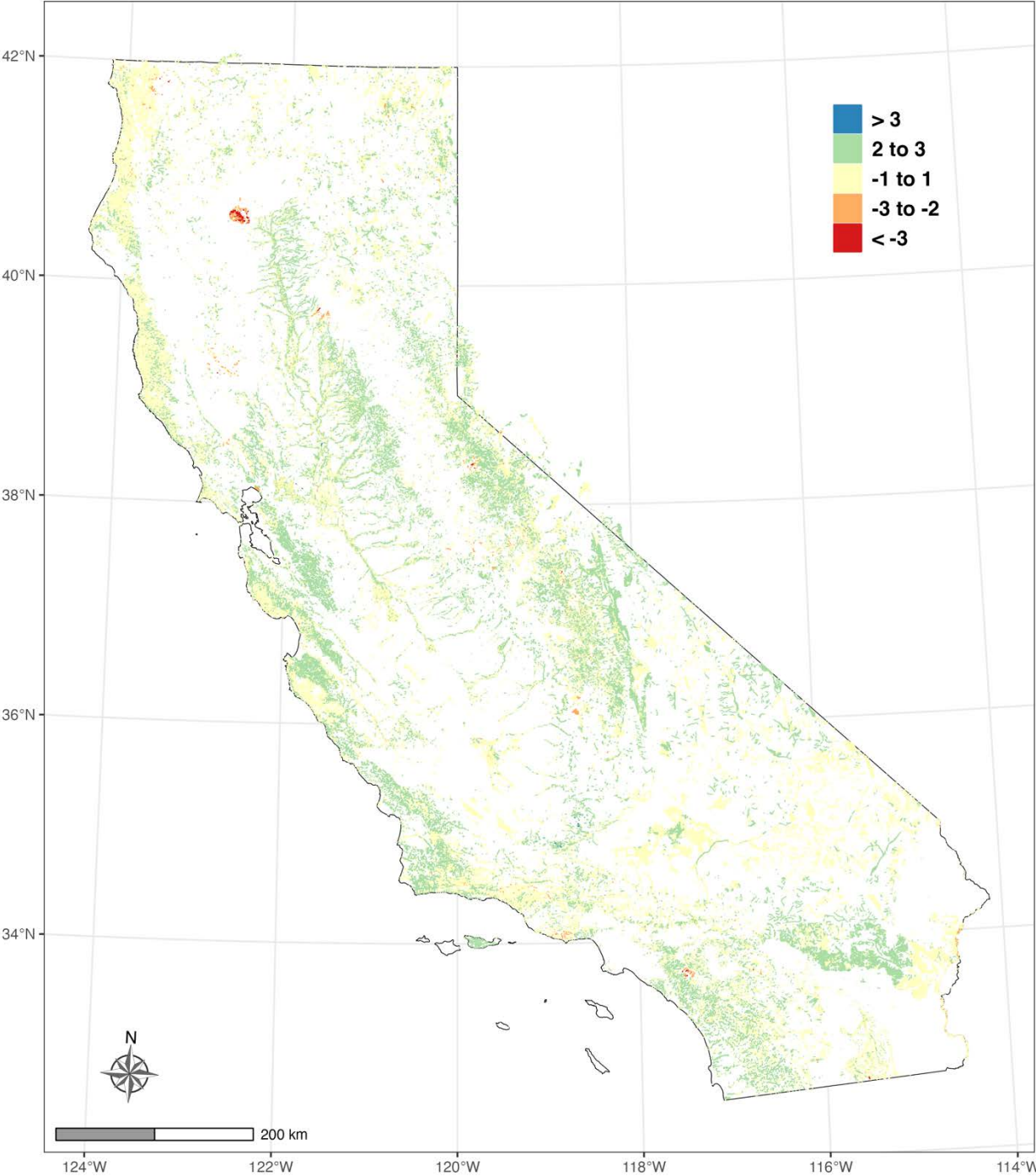
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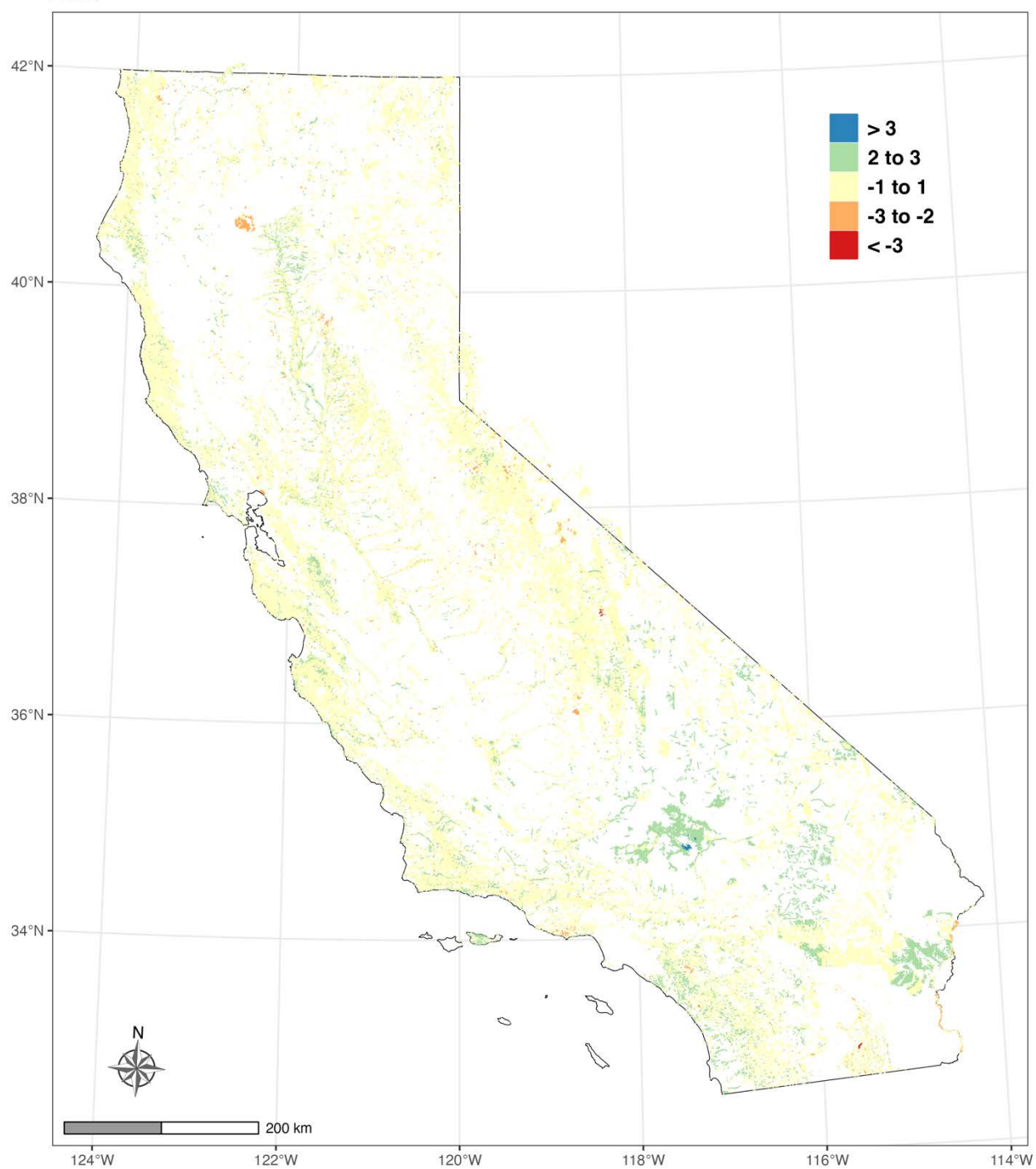
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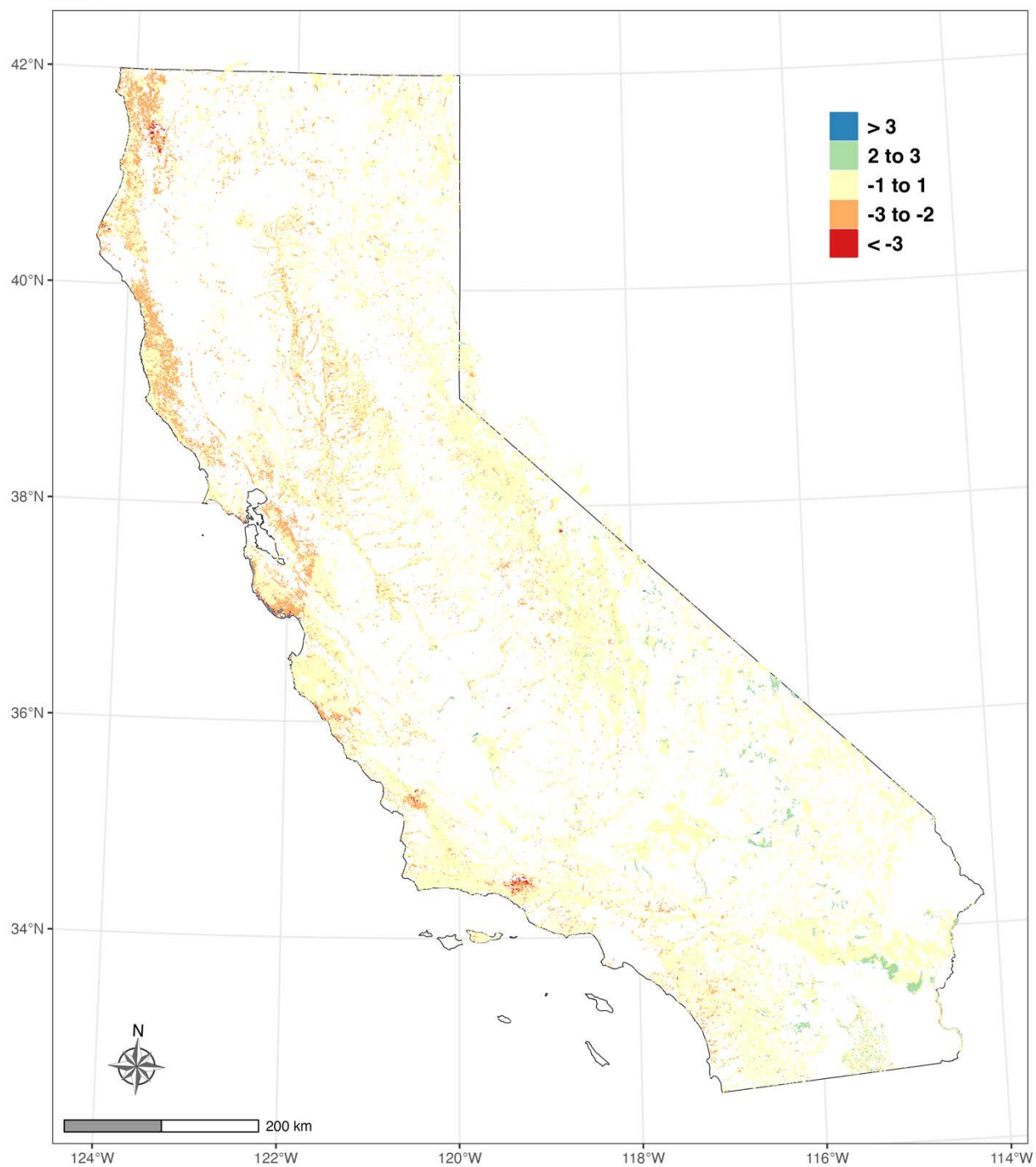
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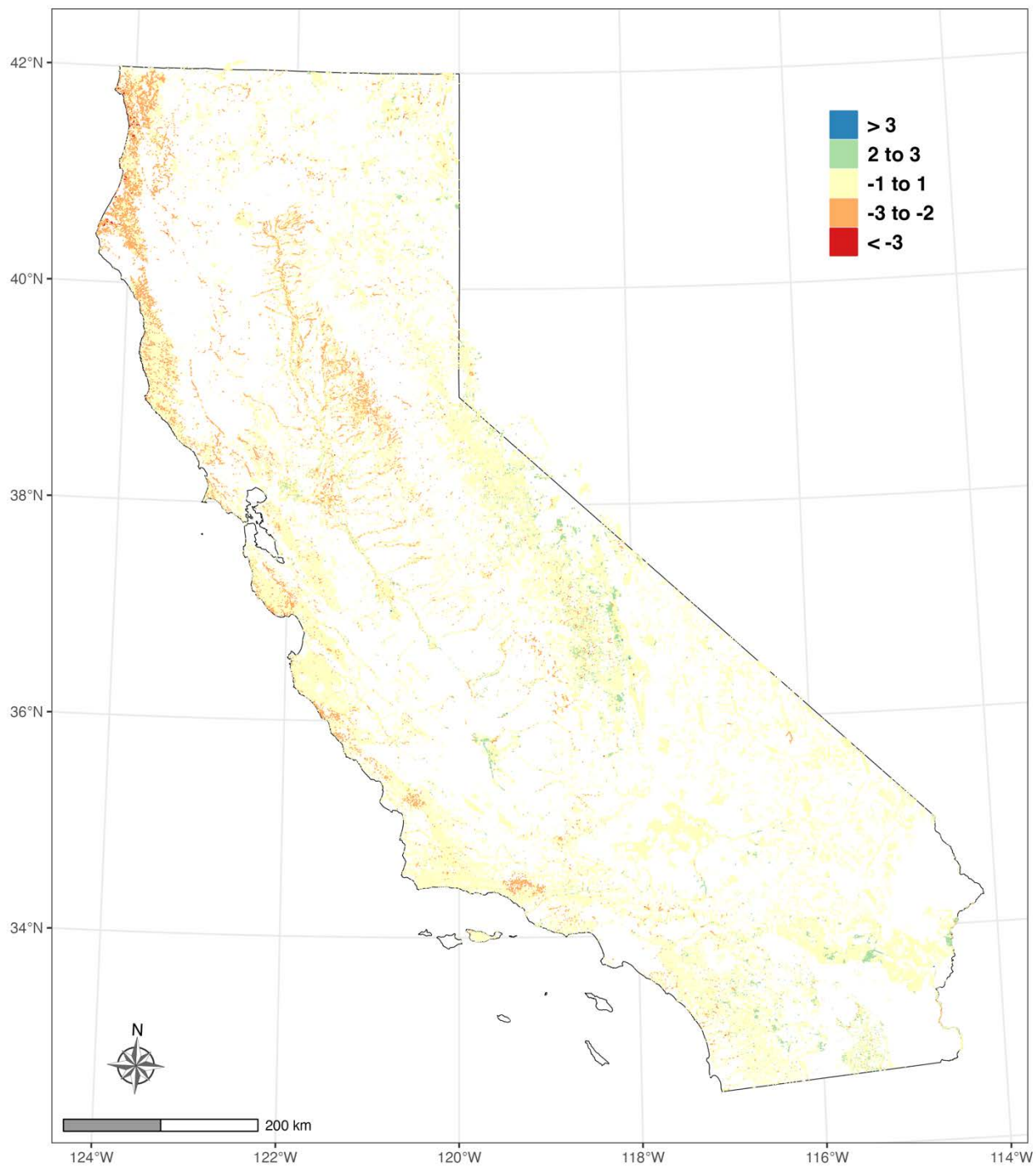
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2021



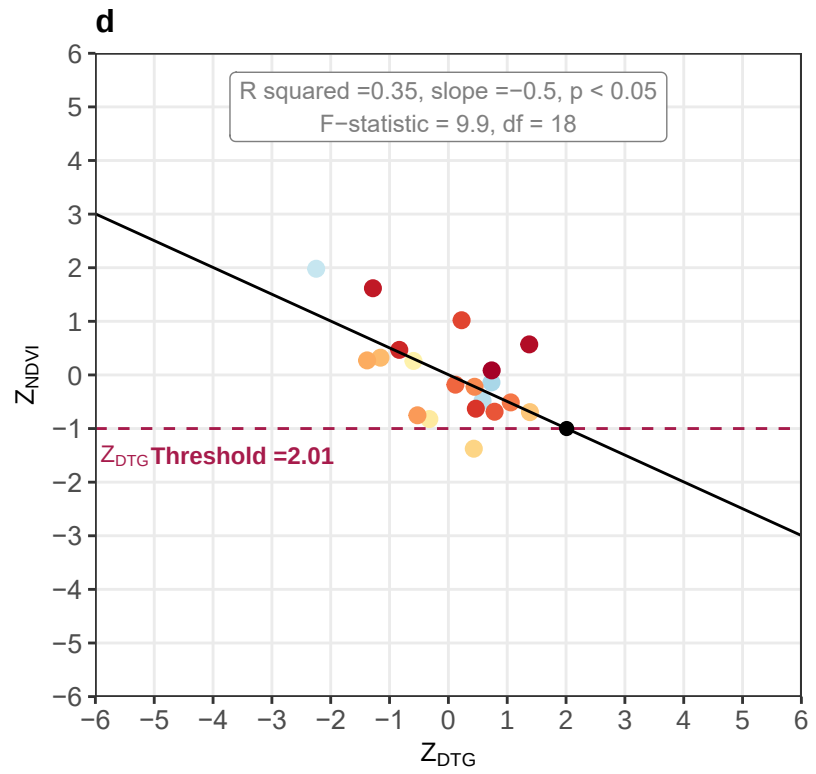
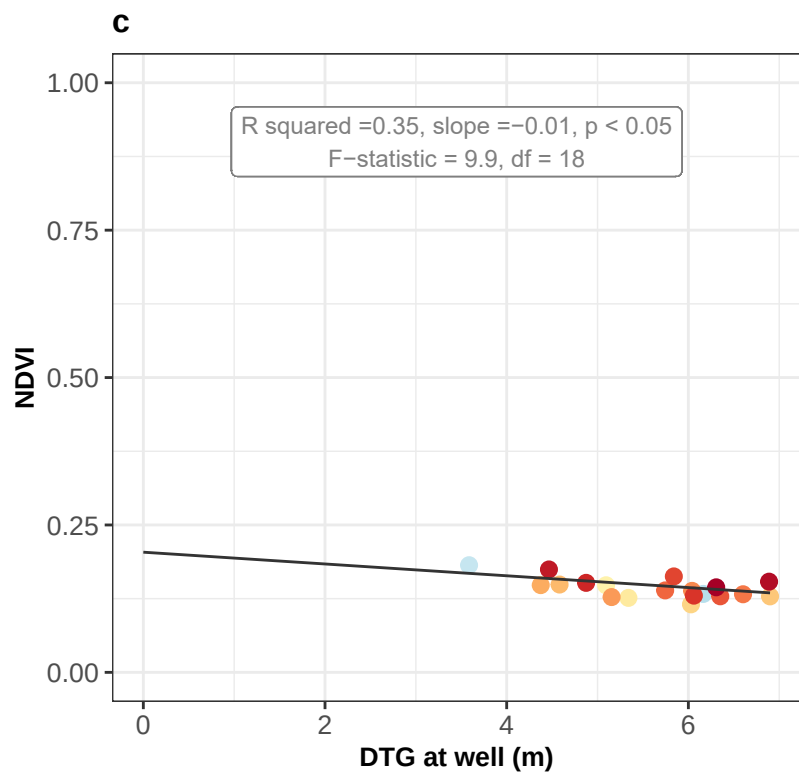
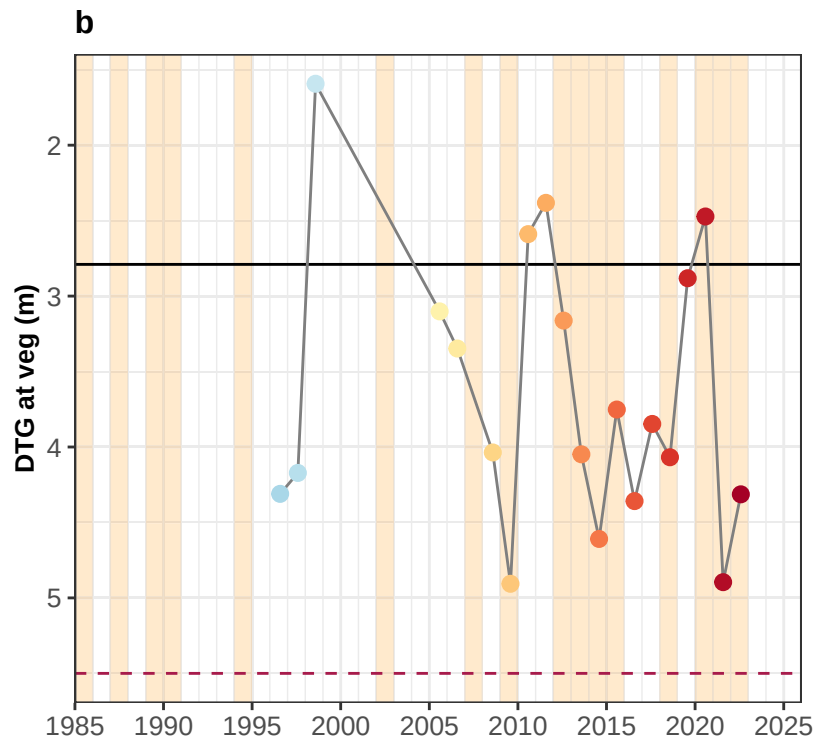
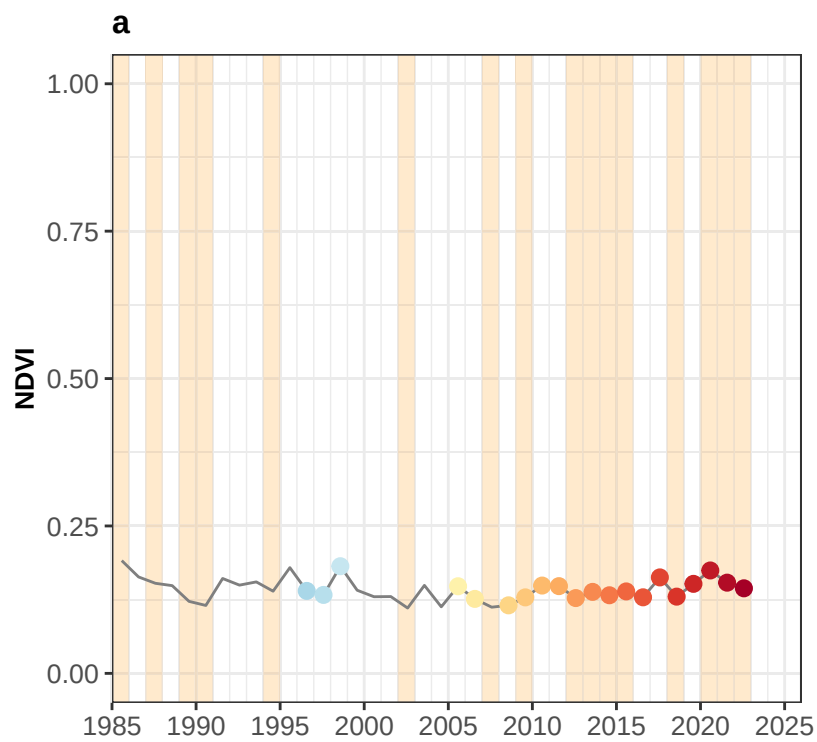
2022



Supplementary Section 3 | Site-specific NDVI and DTG trends.

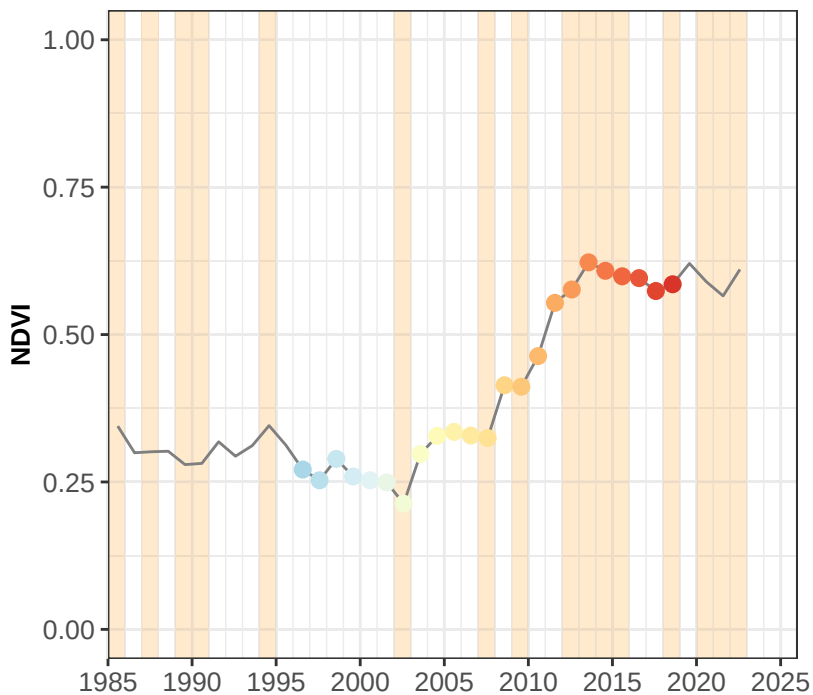
Site-specific NDVI and depth-to-groundwater (DTG) trends for individual groundwater-dependent vegetation polygons ($n = 289$ polygons) that are potentially exhibiting a groundwater-related threshold response (significant negative Z_{NDVI} versus Z_{DTG} relationship; slope < 0 ; $p \leq 0.05$). (a) NDVI time series for the entire 1985-2022 study period (gray line), and for the years where DTG data exist (colored points corresponding to individual years). Drought years are shaded in gold. (b) DTG time series at the vegetation polygon with the mean maximum rooting depth for the associated genus (solid horizontal black line) and the corresponding Z_{DTG} threshold at the vegetation polygon (dashed horizontal red line). Drought years are shaded in gold. (c) NDVI versus DTG (m) at the well associated with the vegetation polygon, where colored points correspond to individual years (see panel a) and the black solid trend line is based on an ordinary least square linear fit. (d) Z_{NDVI} versus Z_{DTG} with the Z_{DTG} Threshold set where the ordinary least square fit intersects $Z_{\text{NDVI}} = -1$.

Populus (gdeID: 100039)

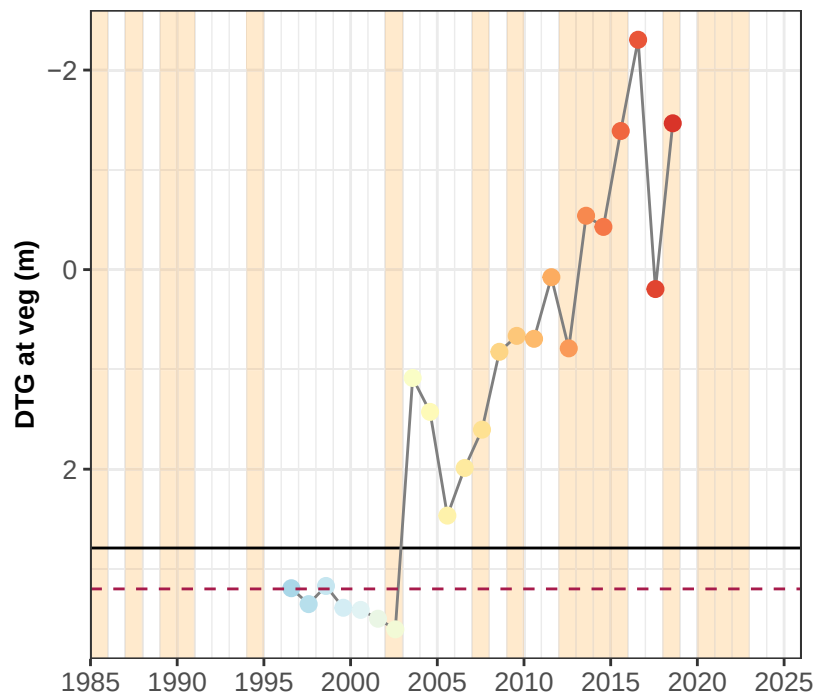


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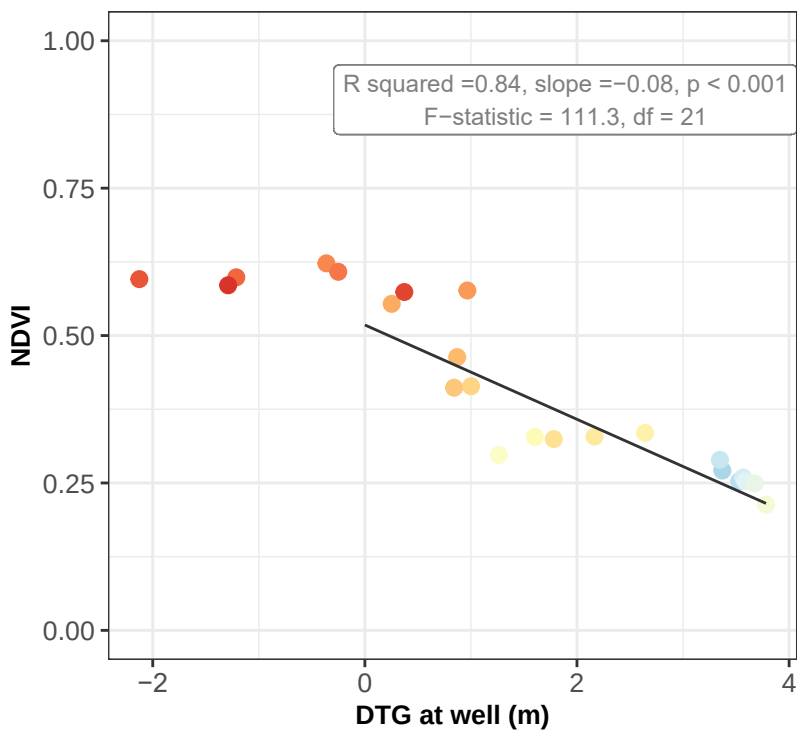
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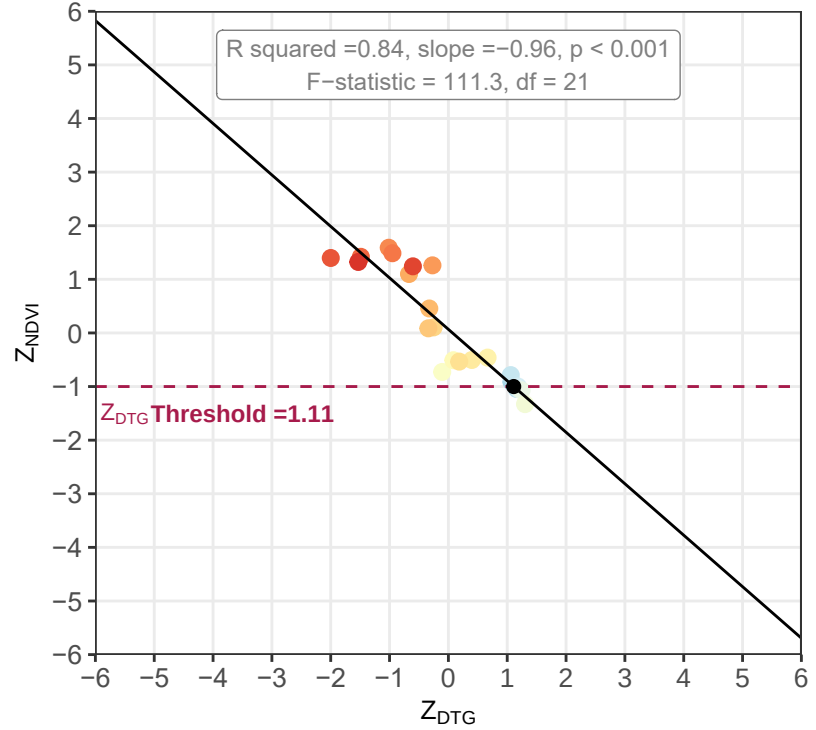
b



c

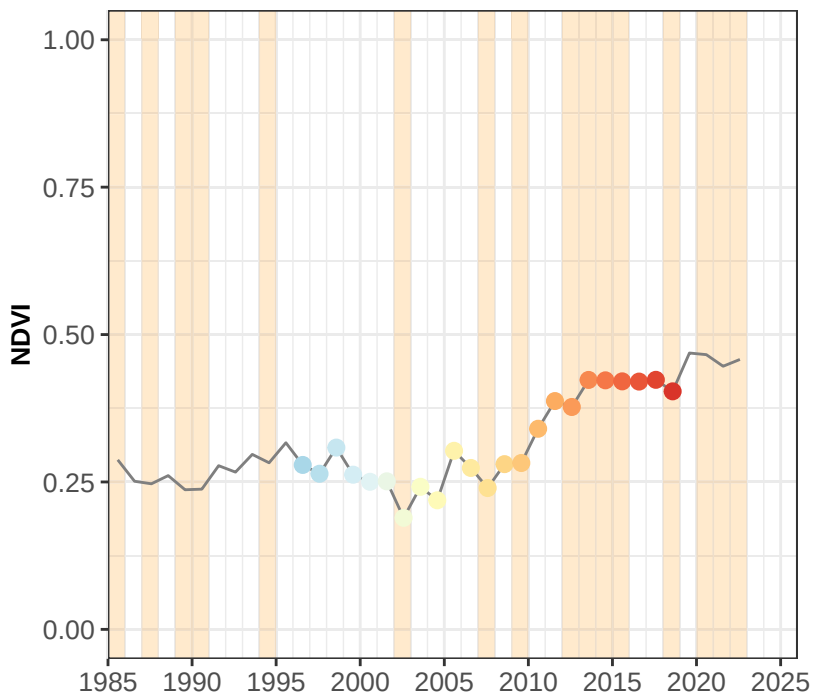


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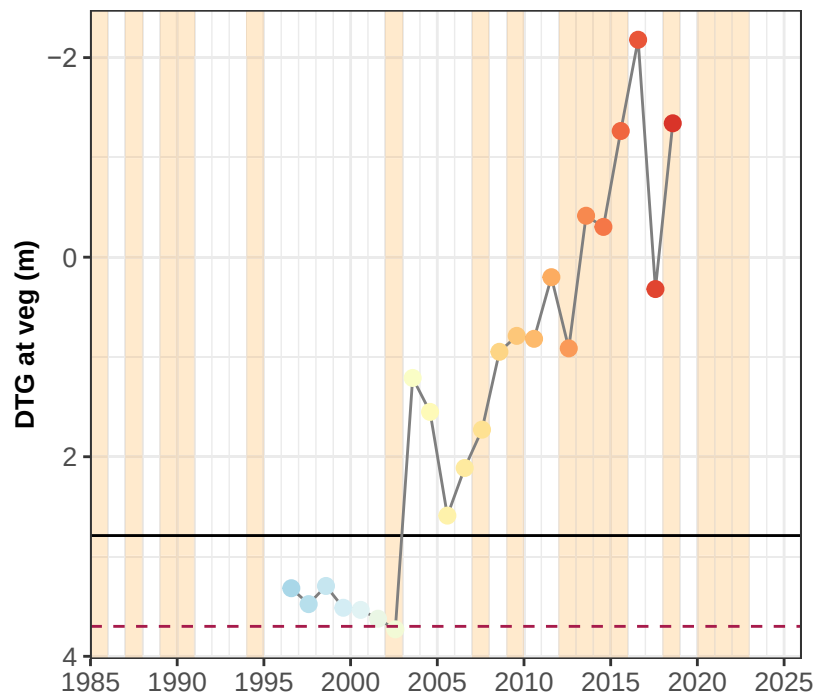


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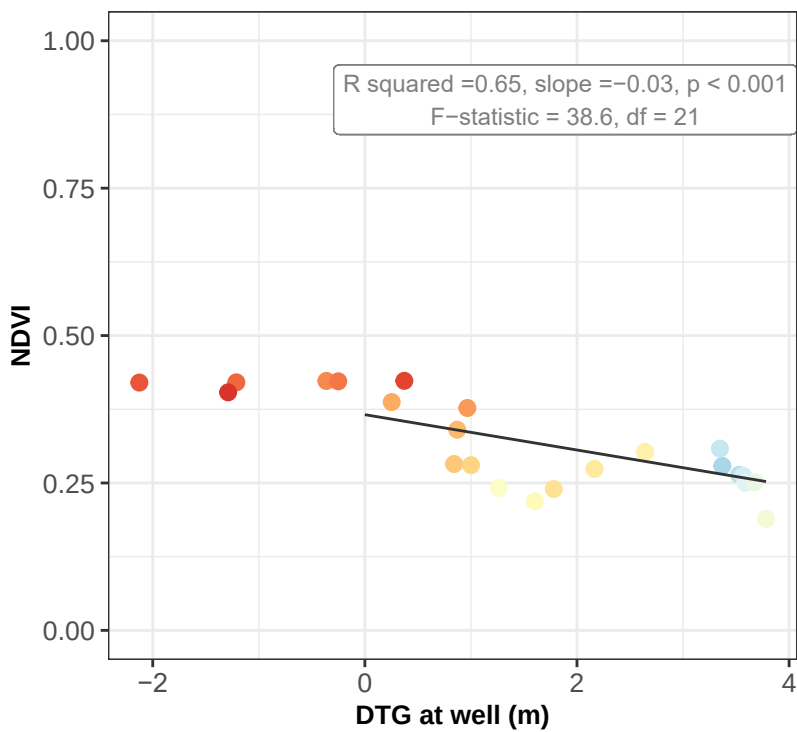
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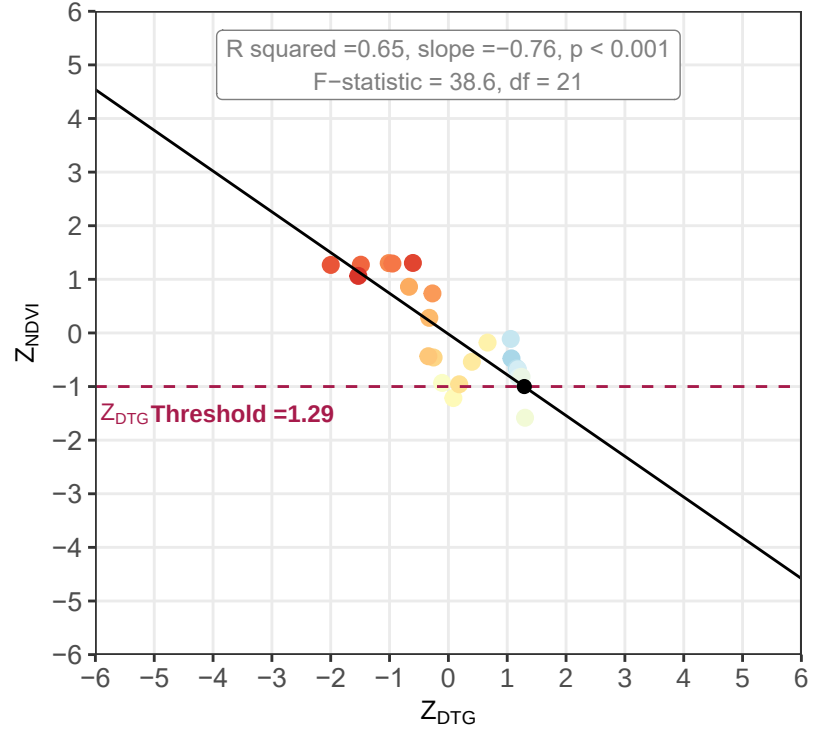
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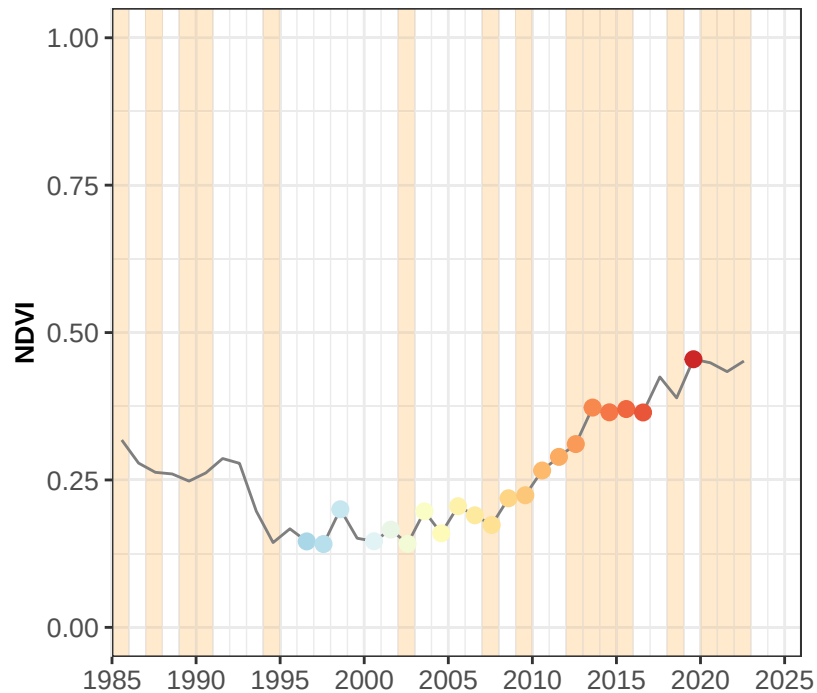


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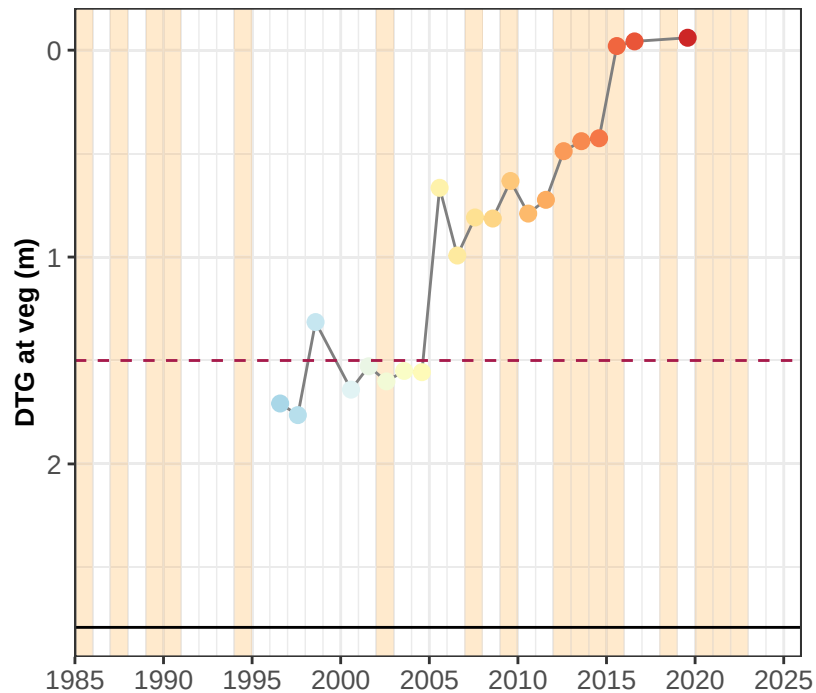


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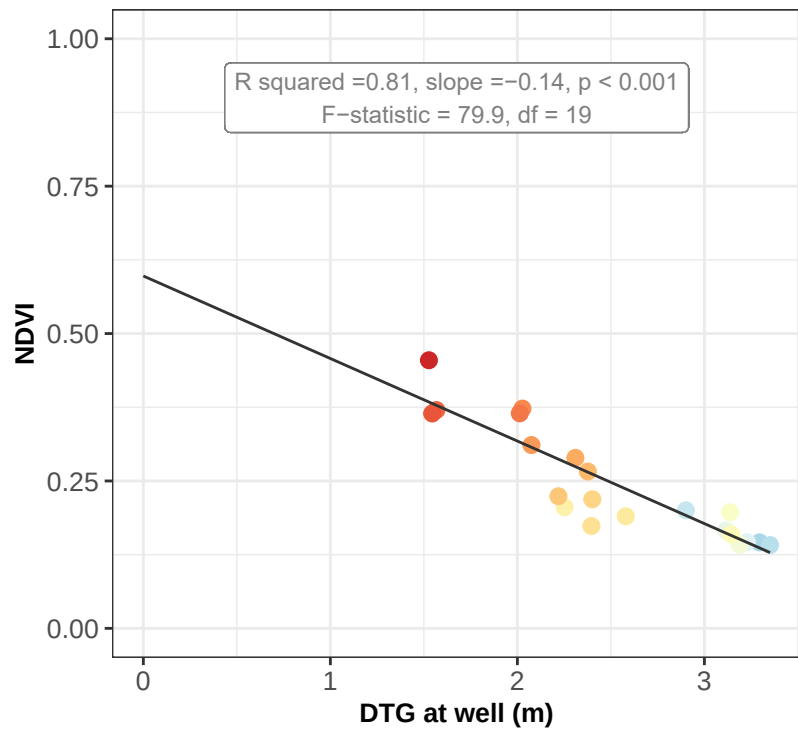
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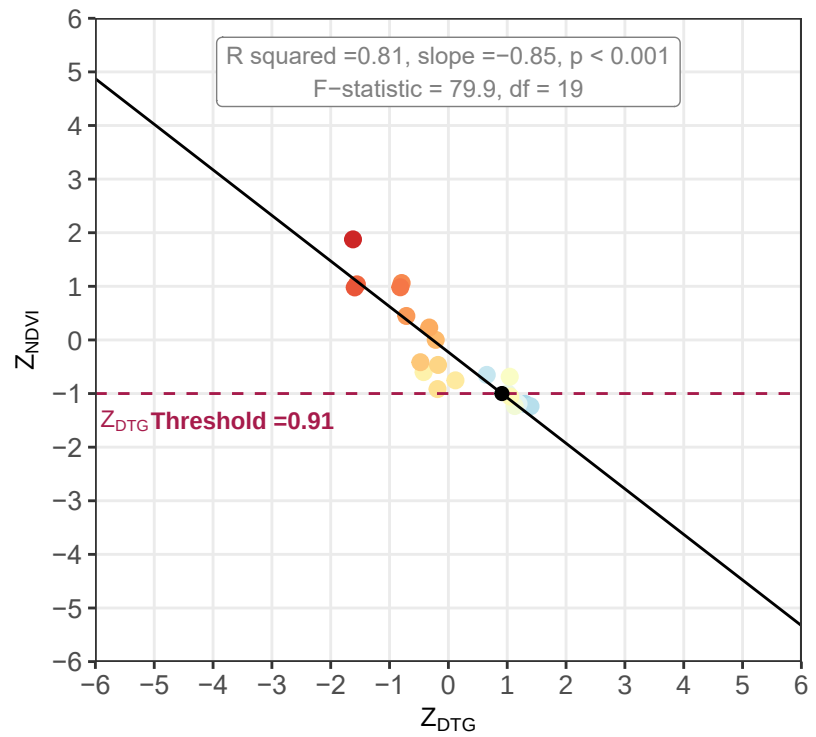
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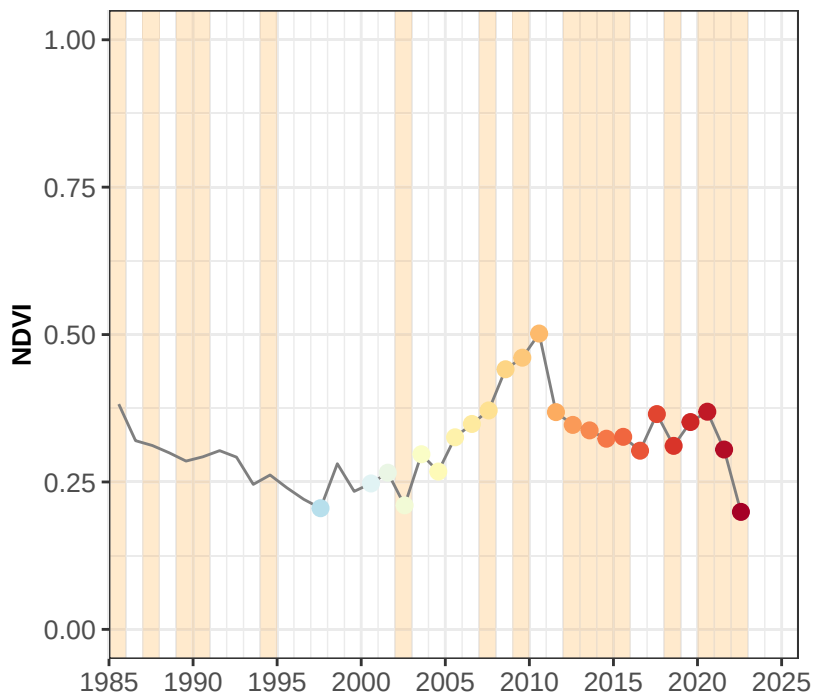


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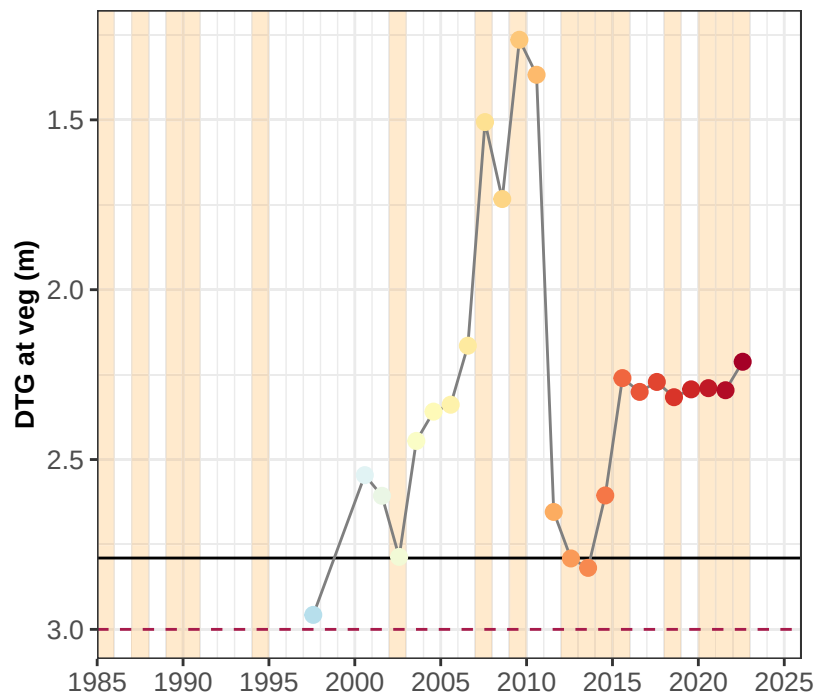


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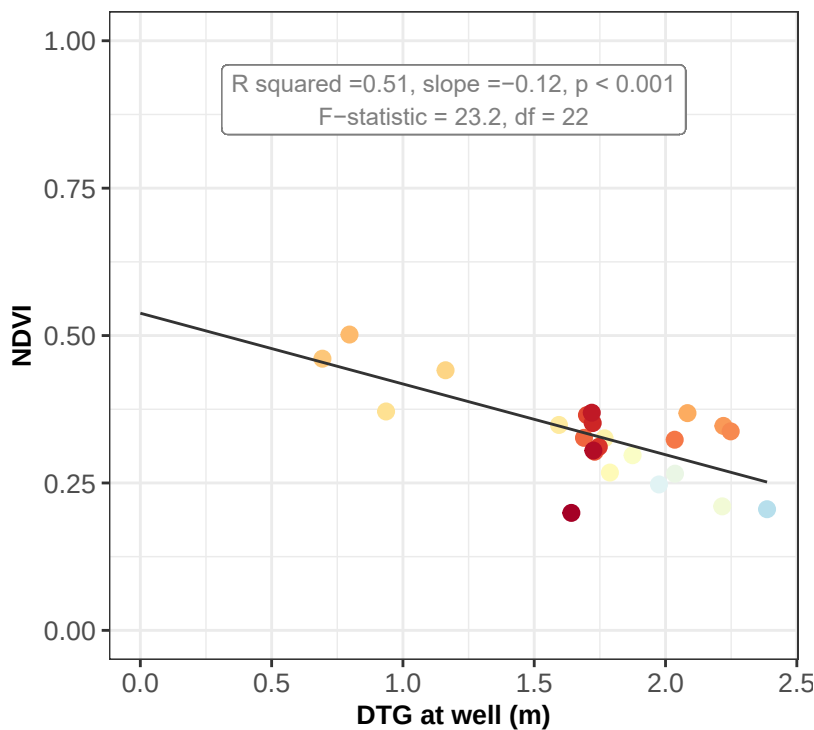
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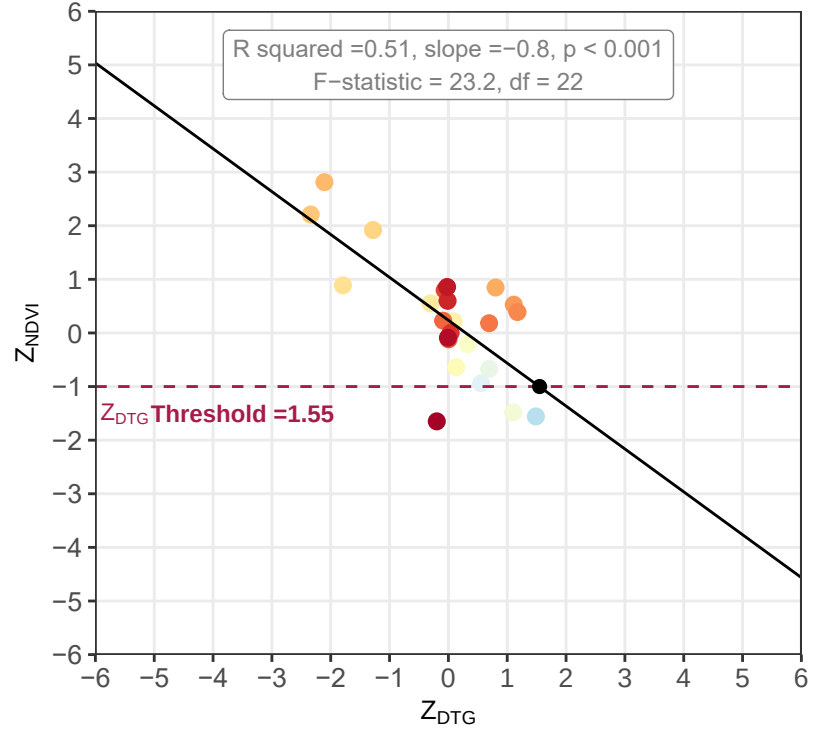
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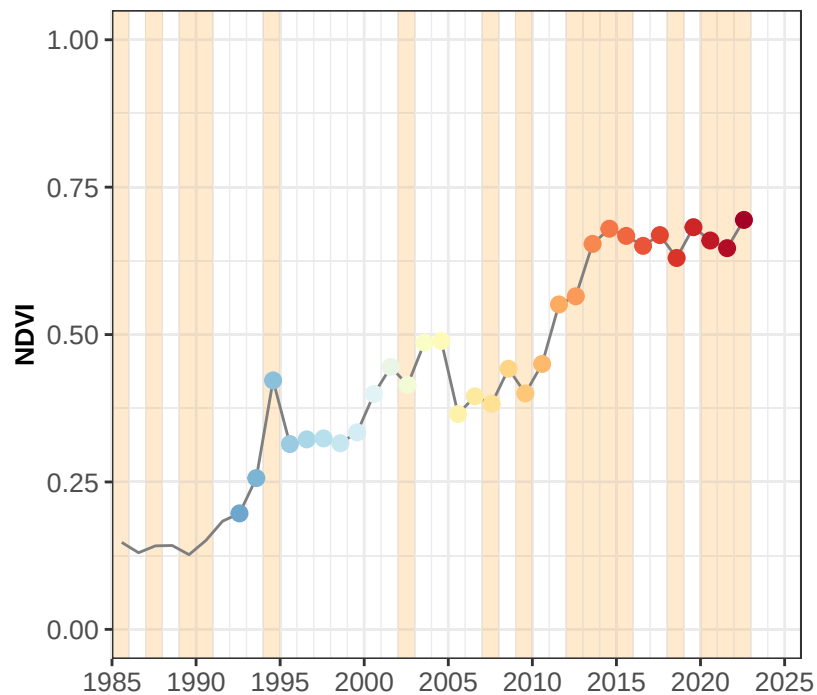


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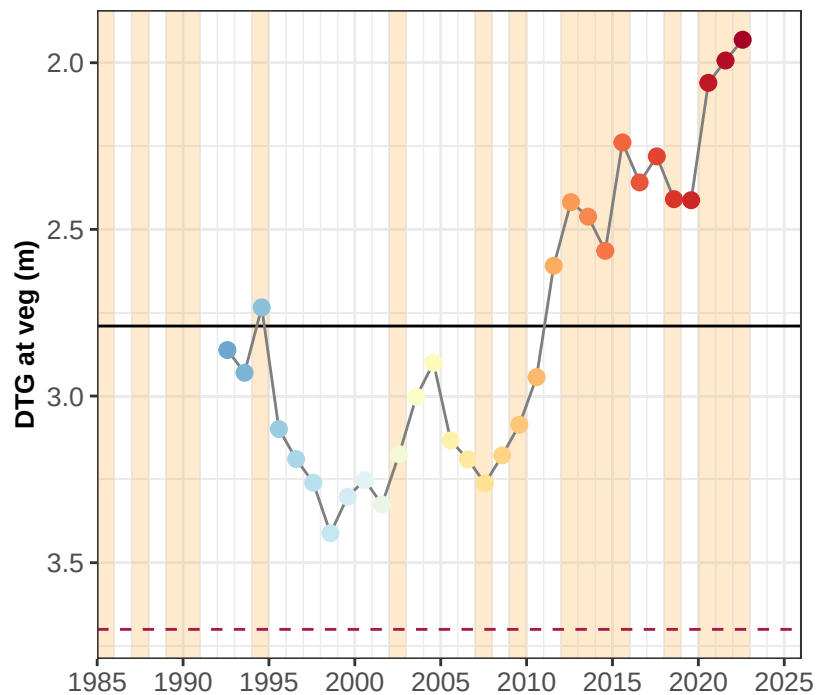


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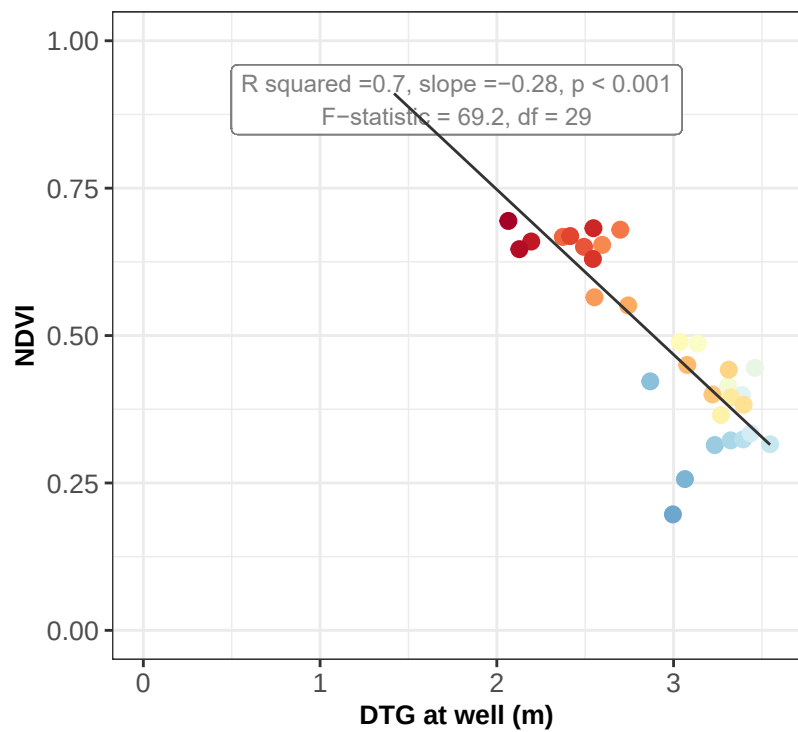
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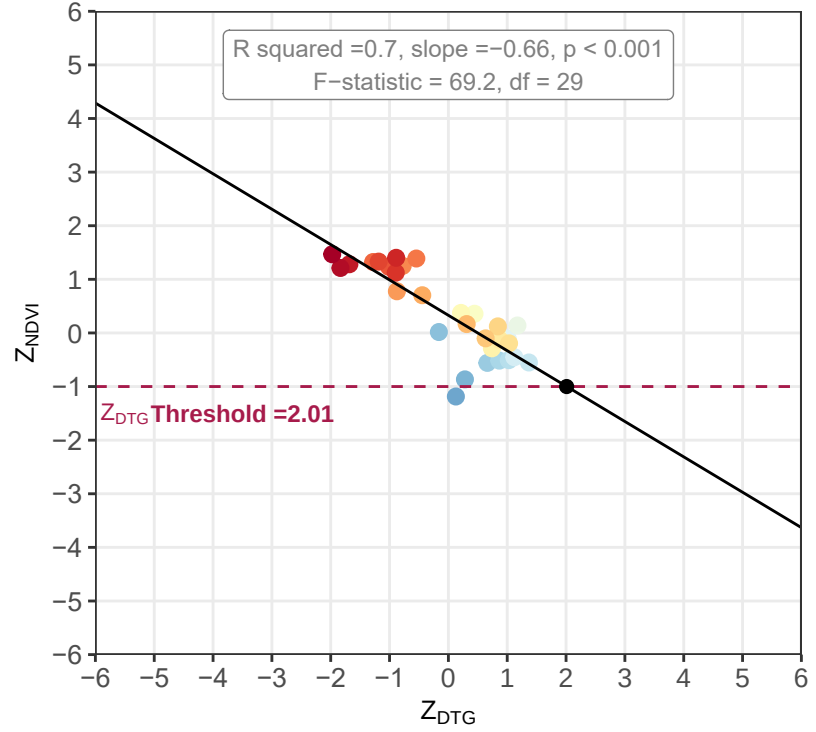
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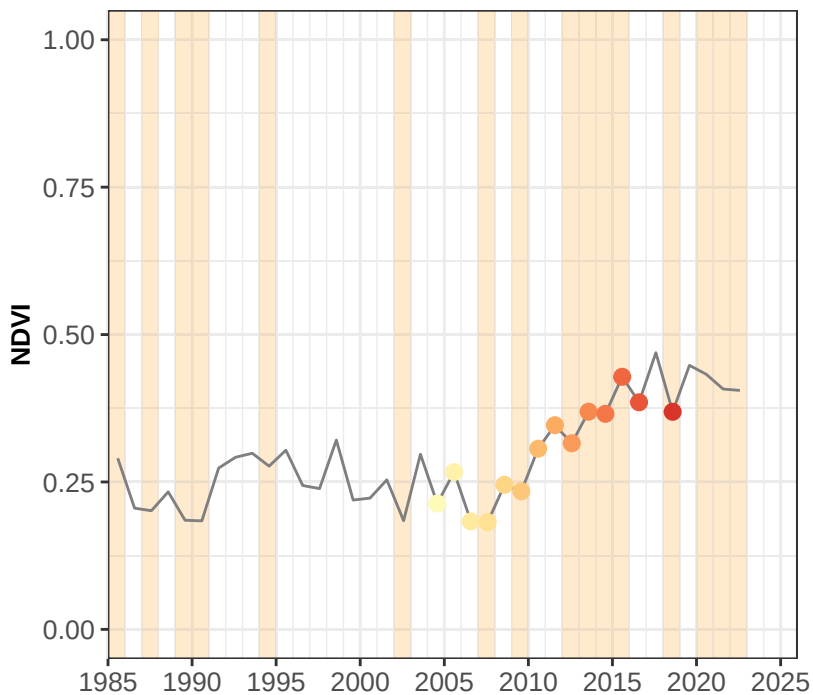


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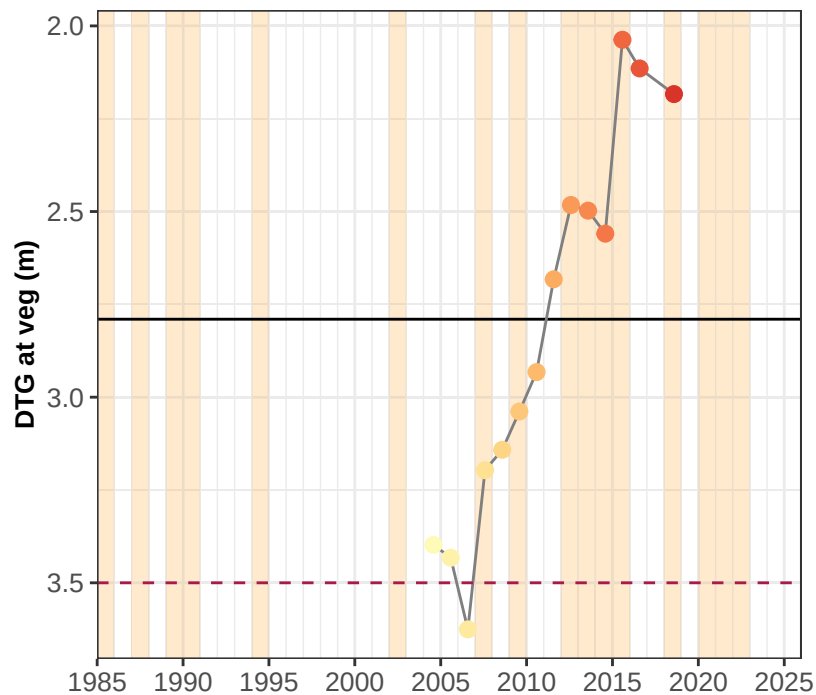


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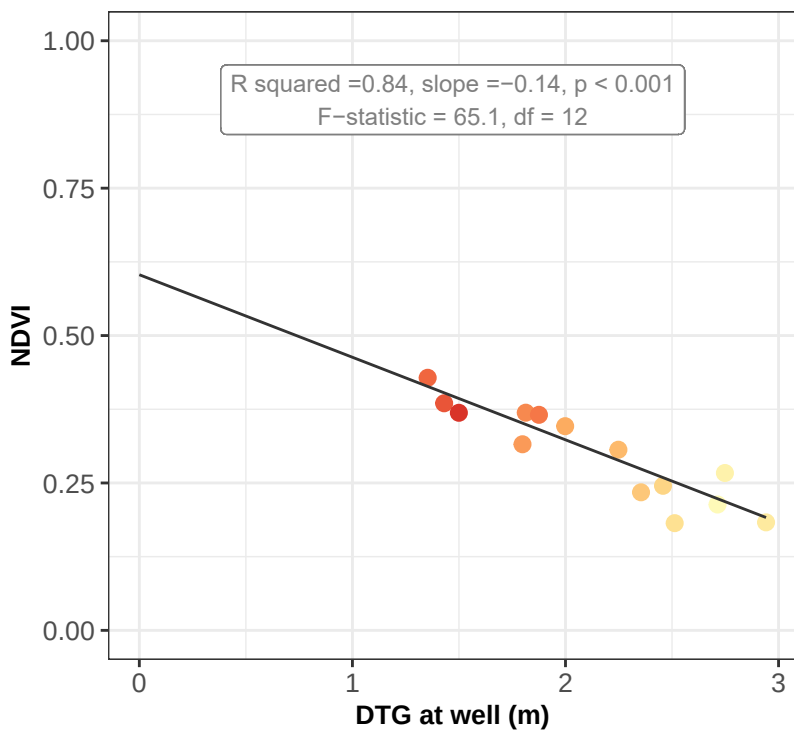
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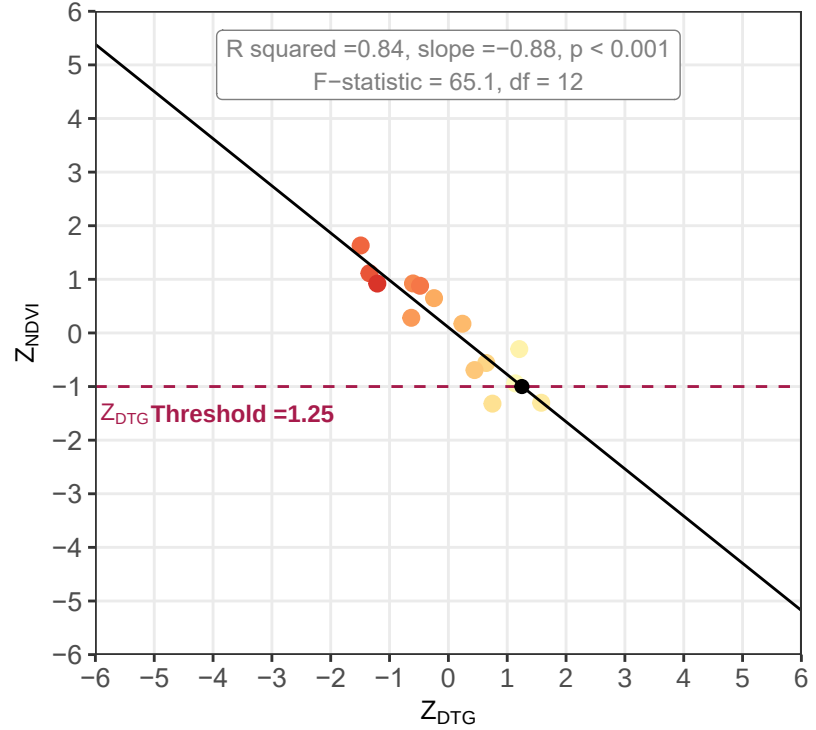
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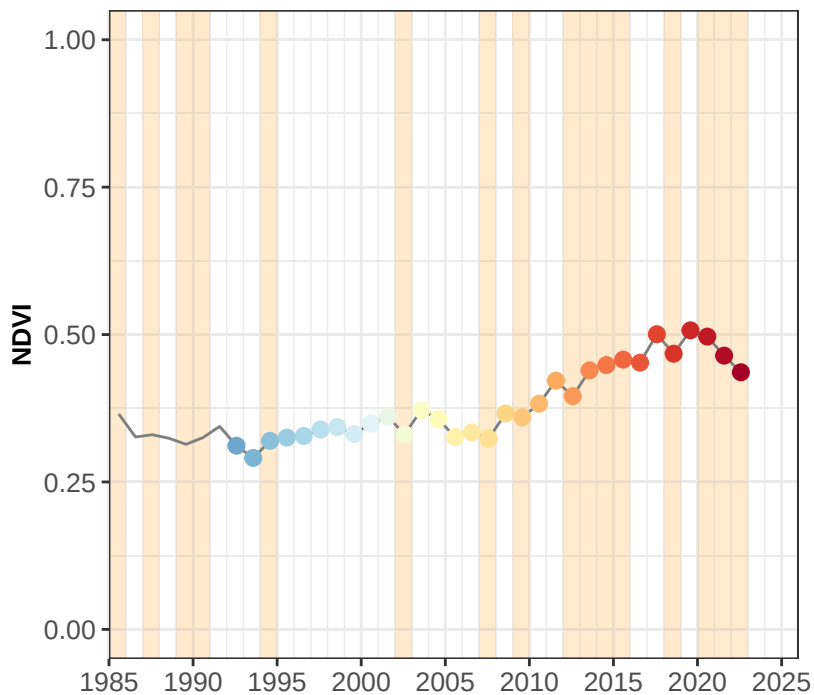


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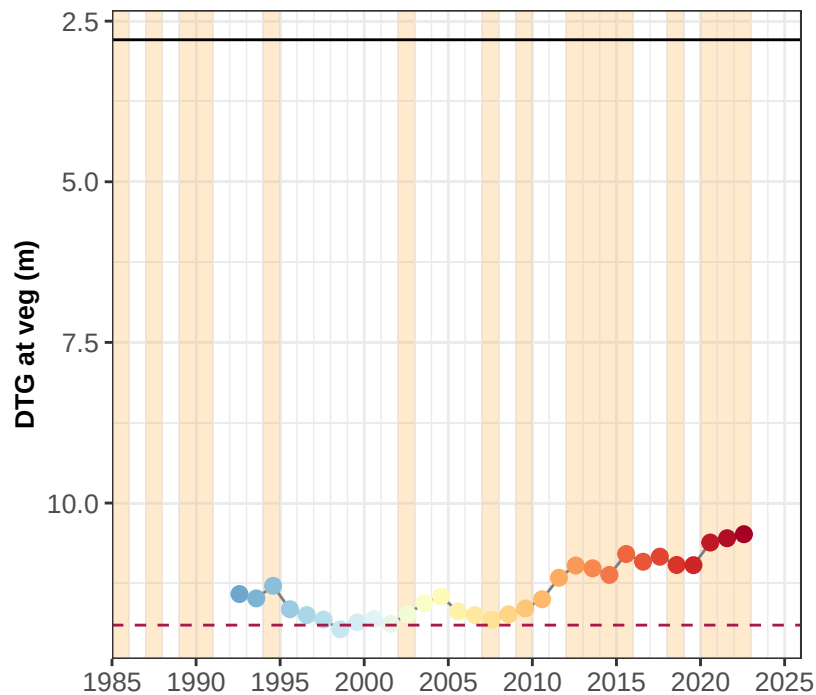


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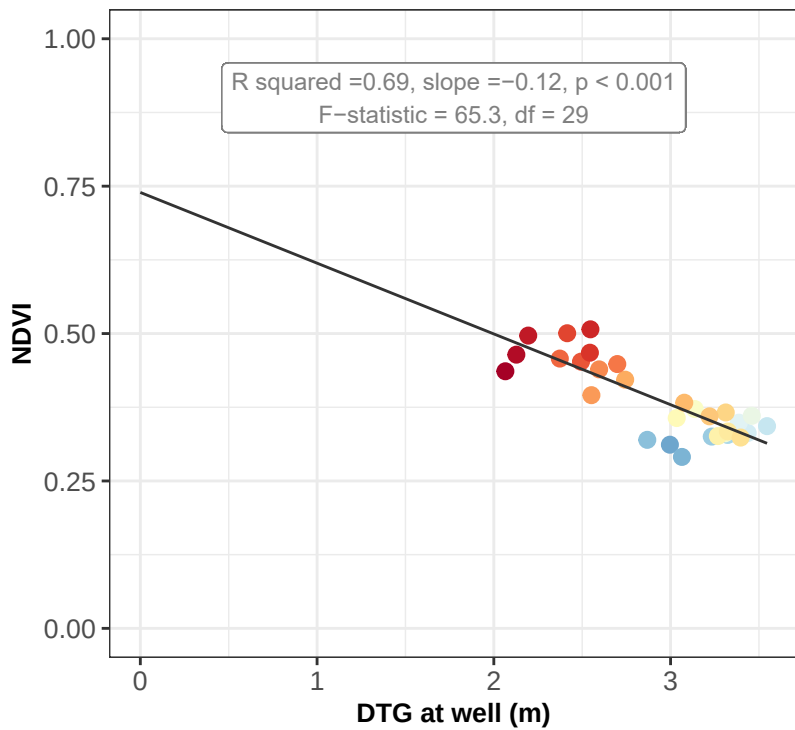
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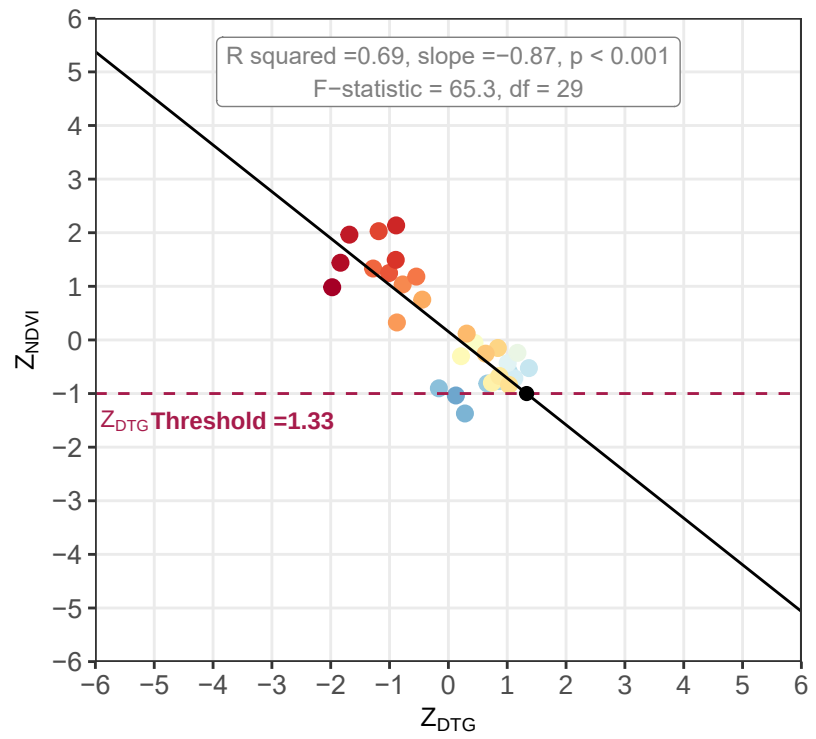
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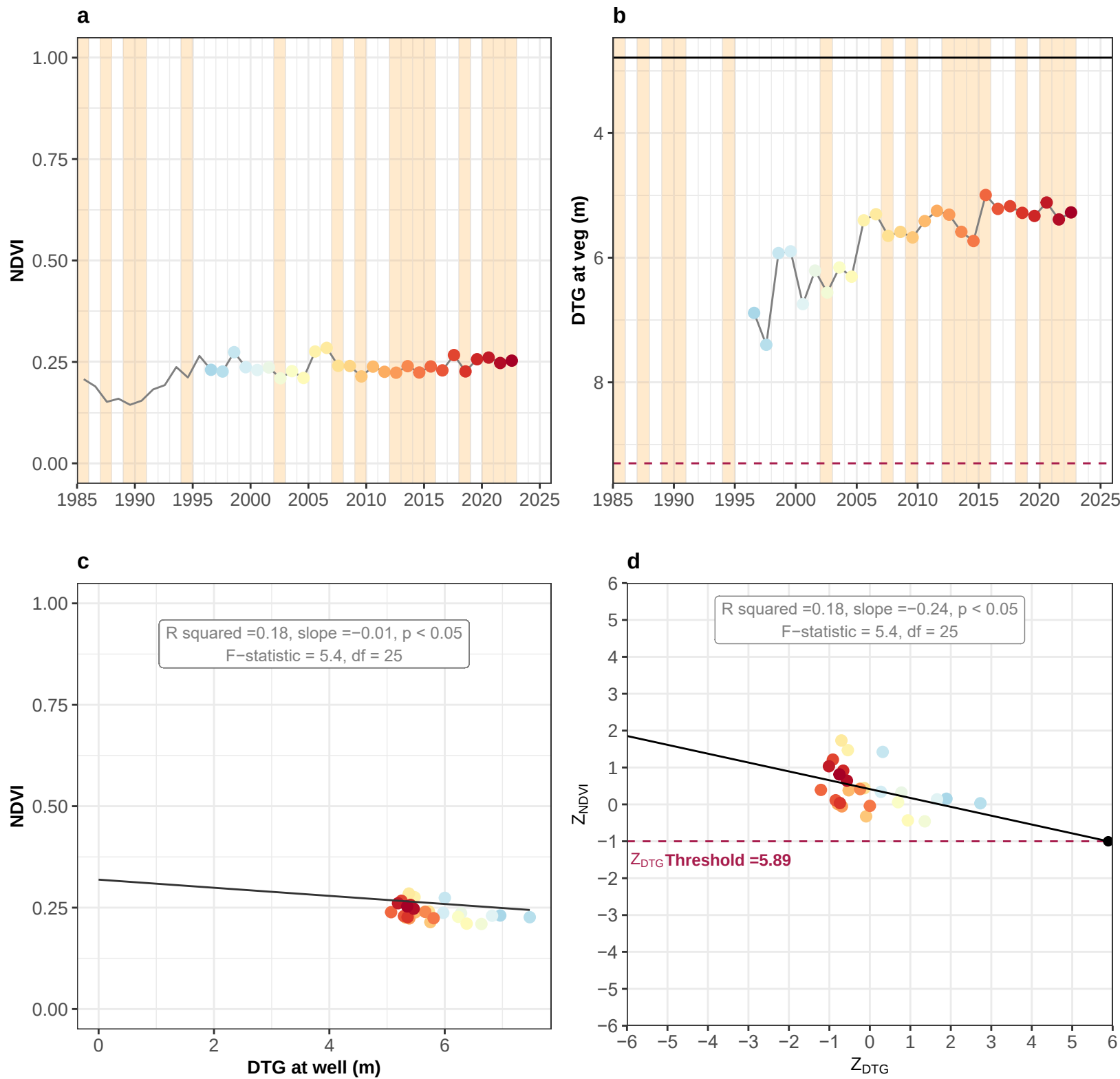
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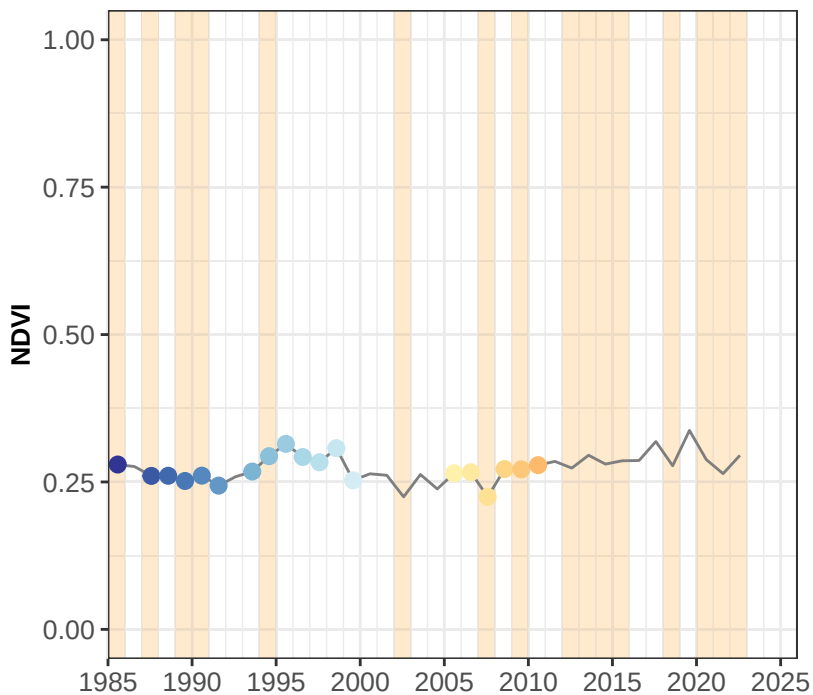


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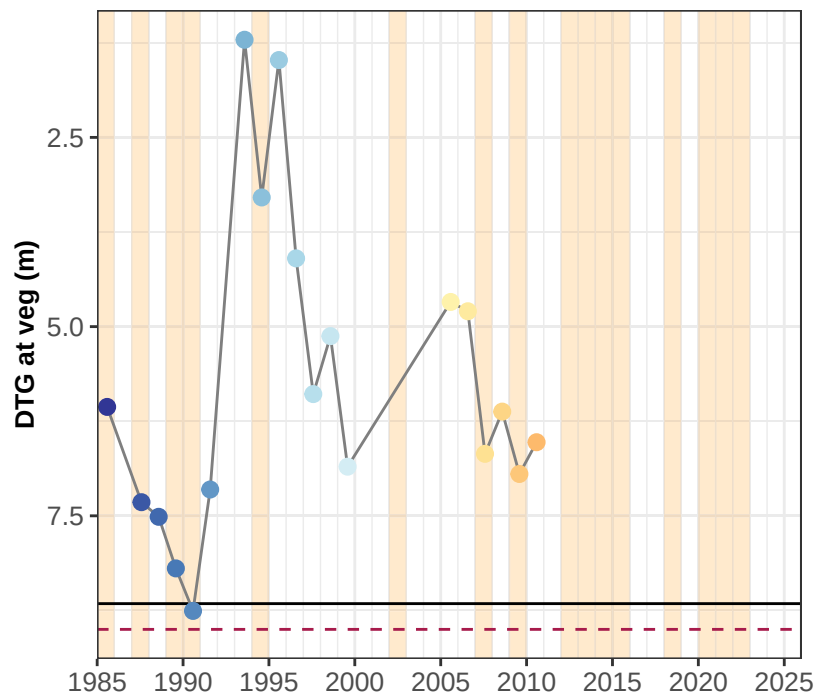


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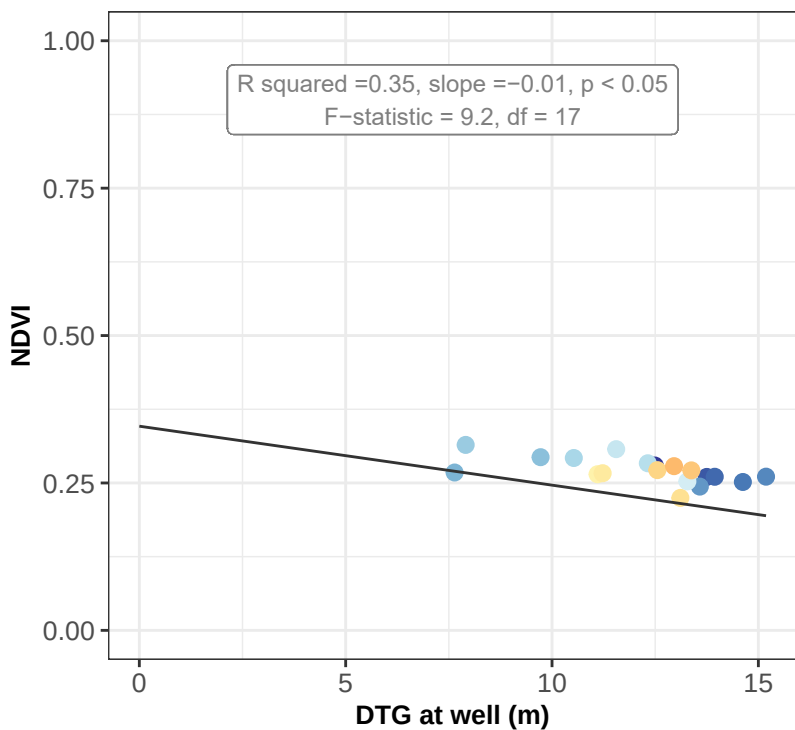
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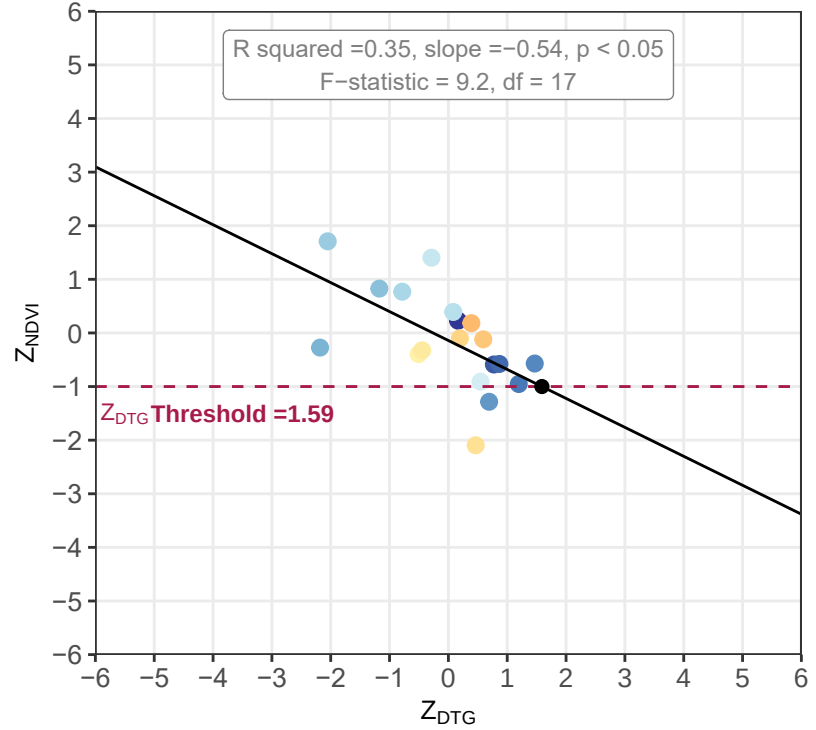
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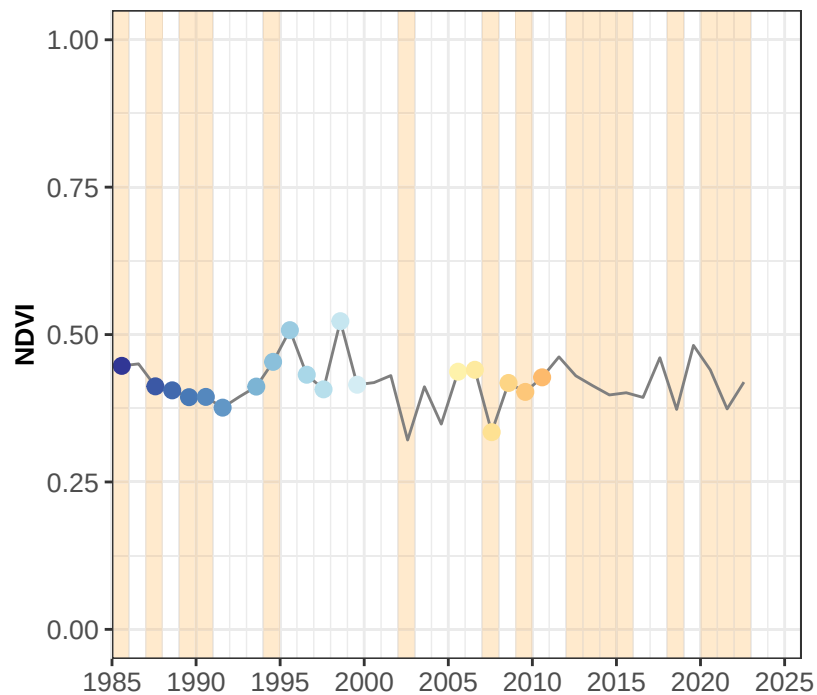


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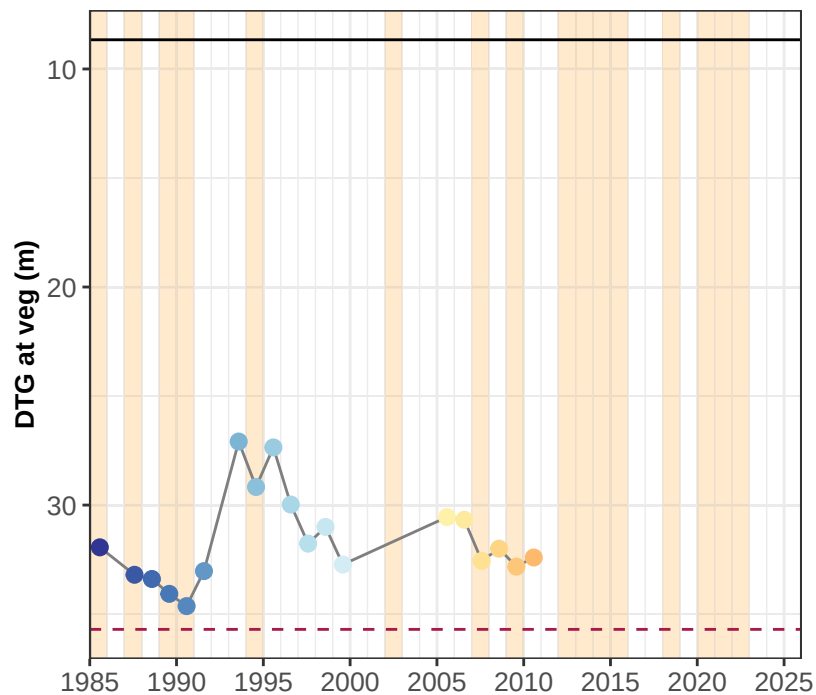


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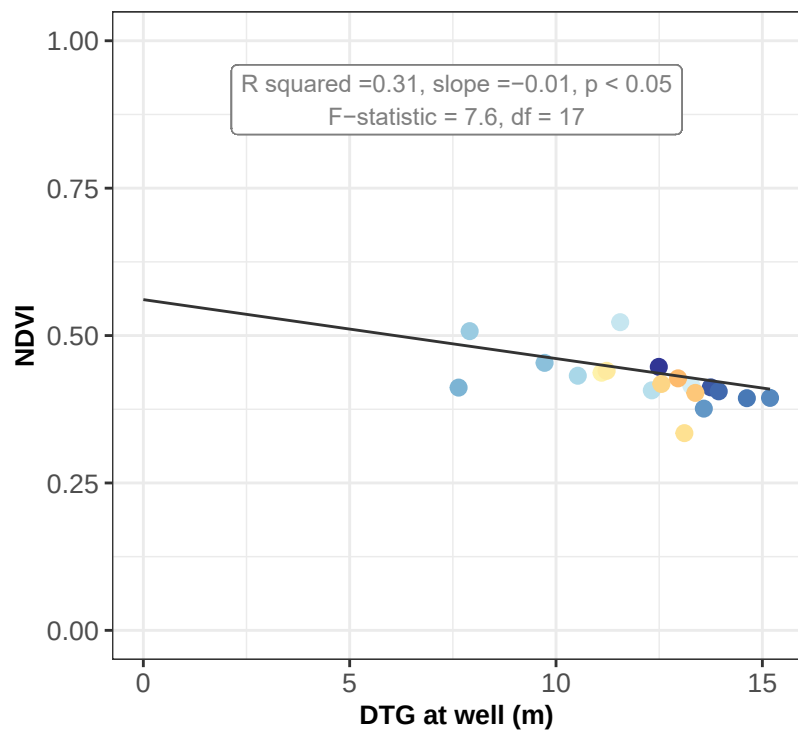
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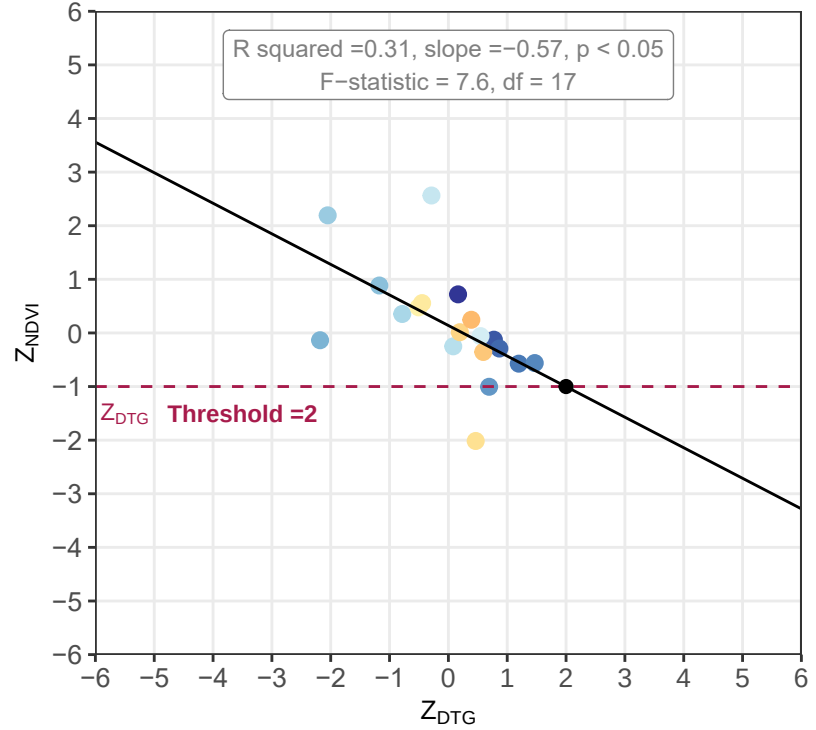
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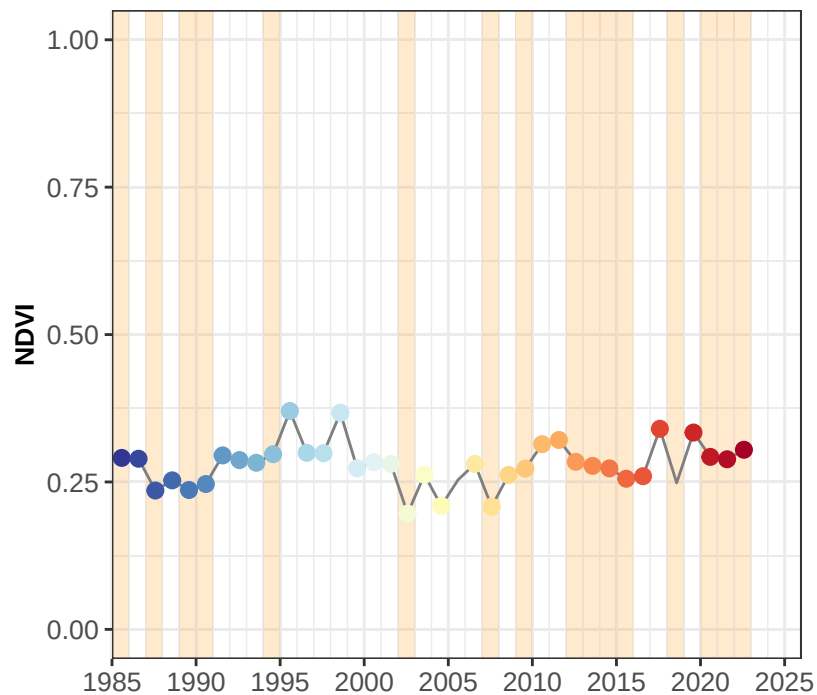


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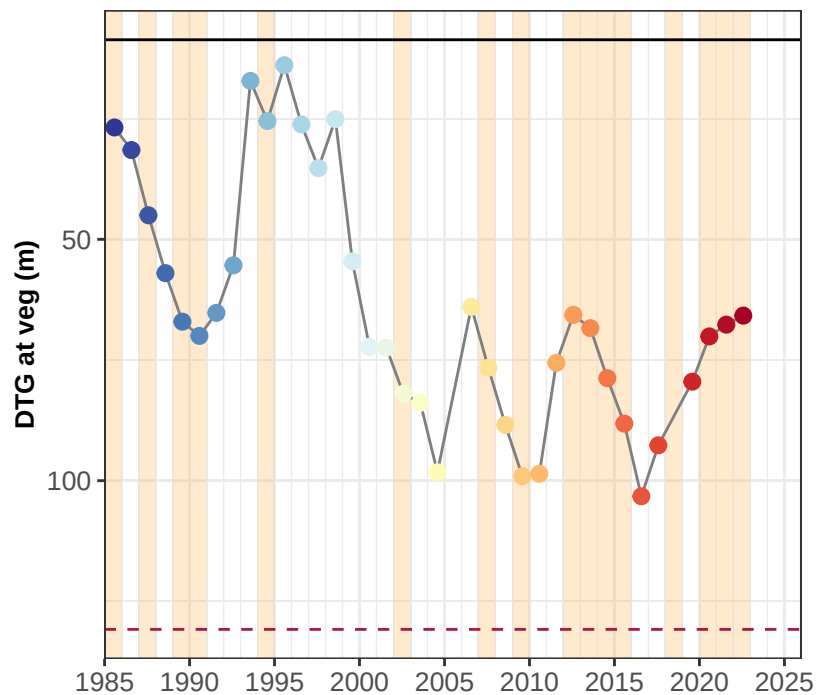


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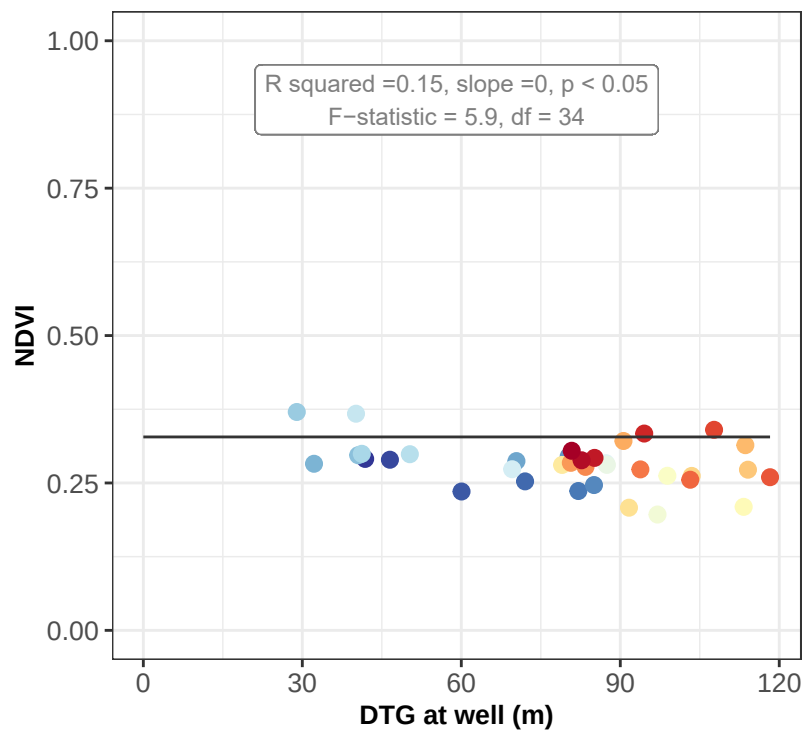
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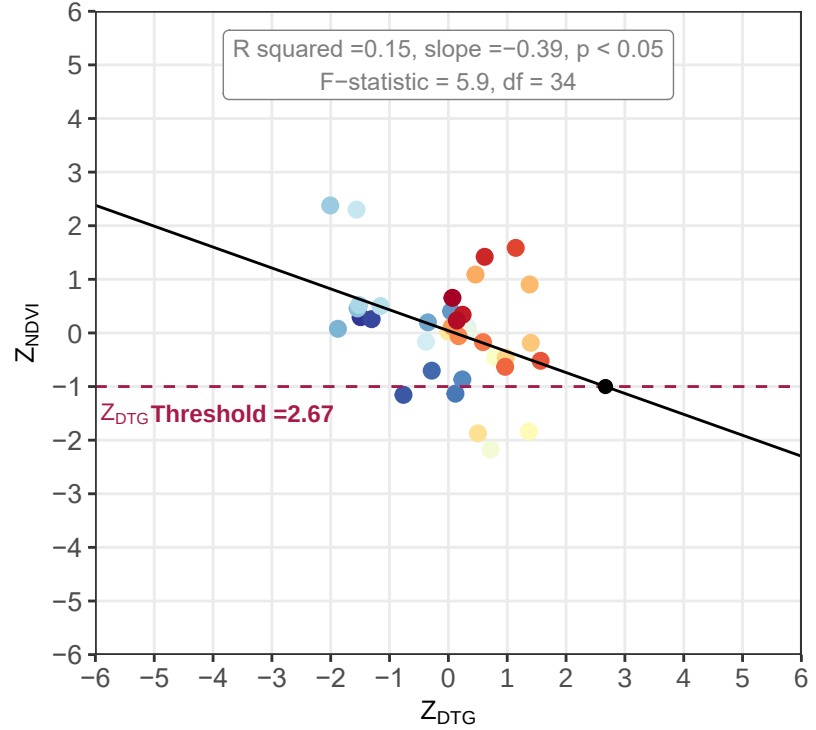
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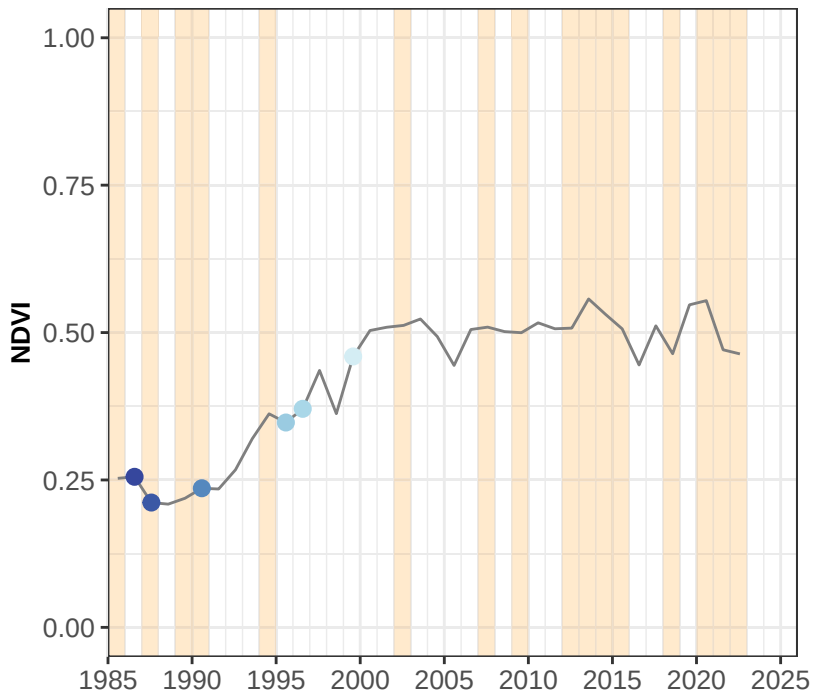


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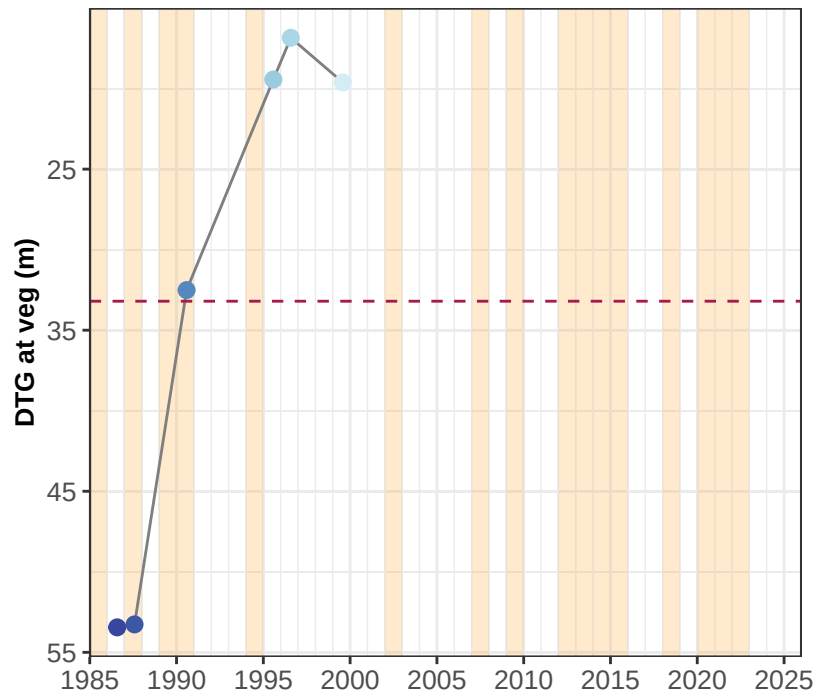


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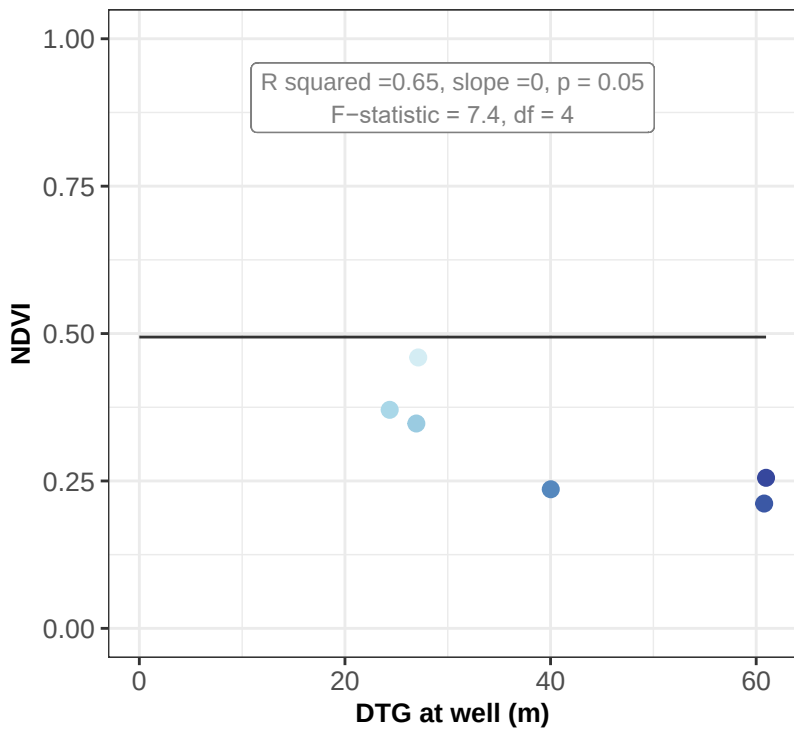
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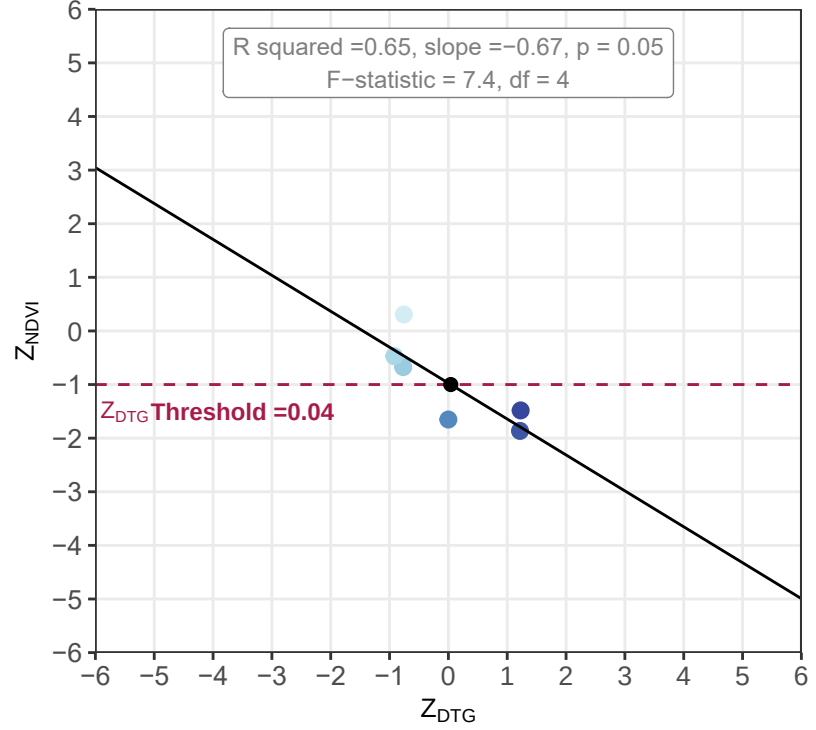
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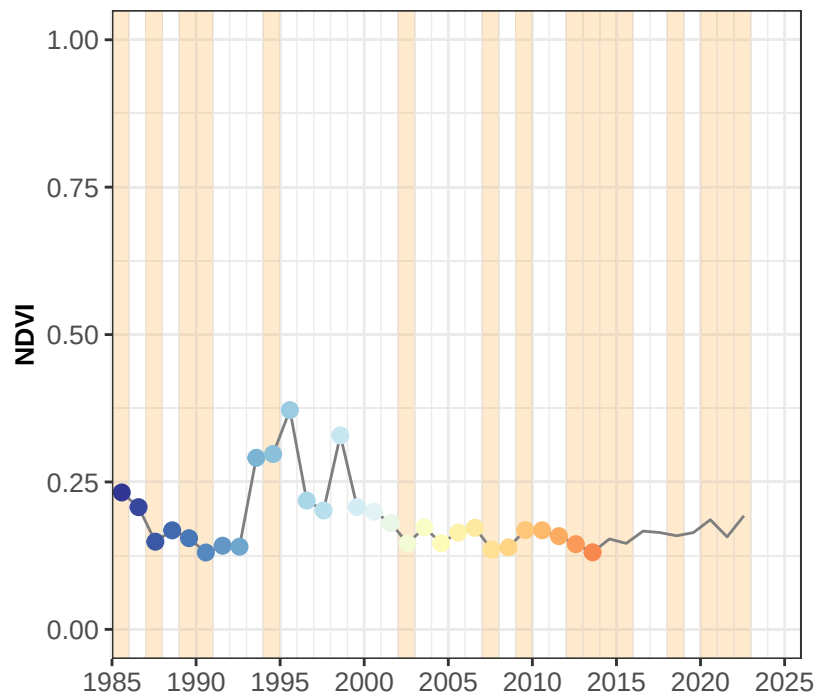


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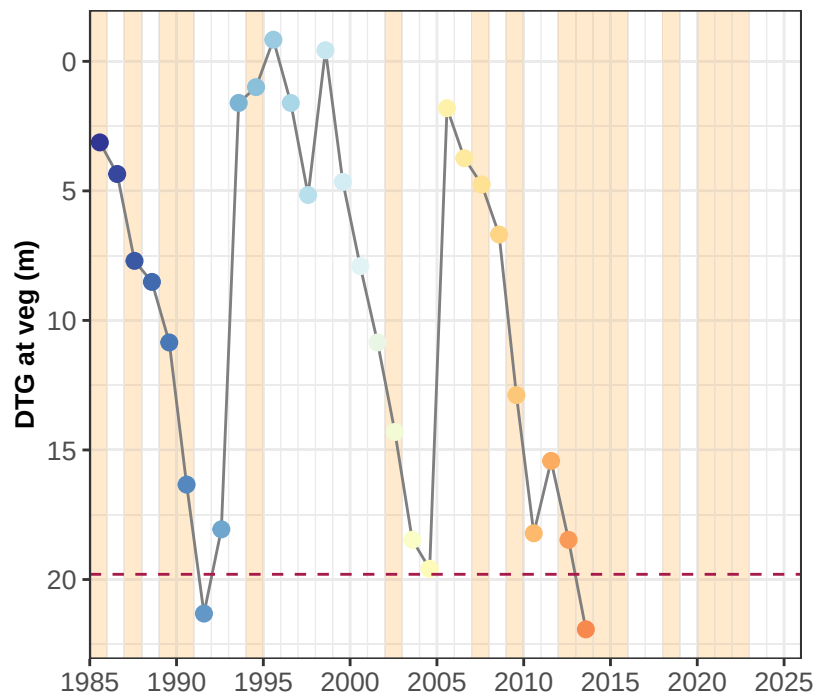


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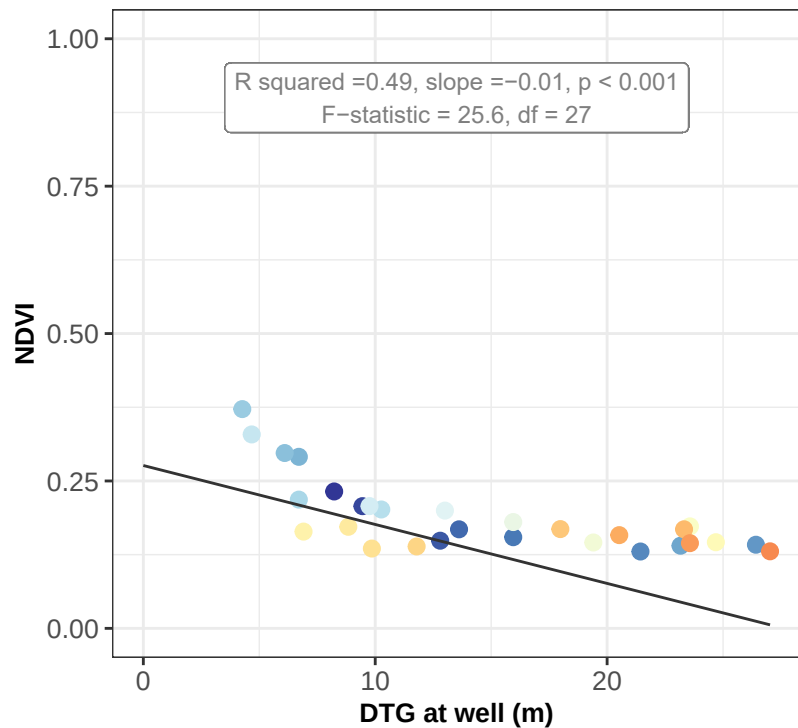
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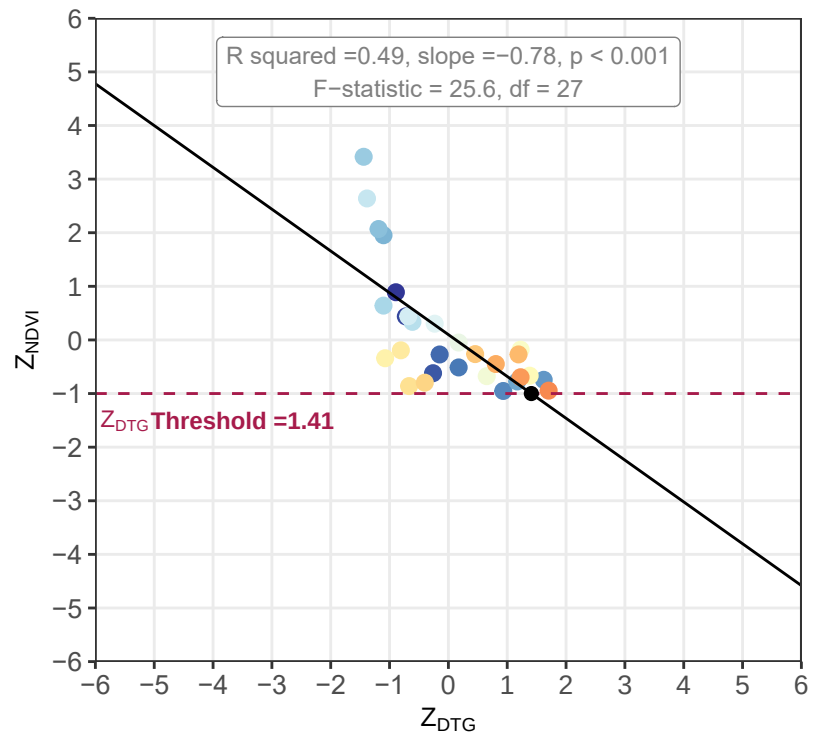
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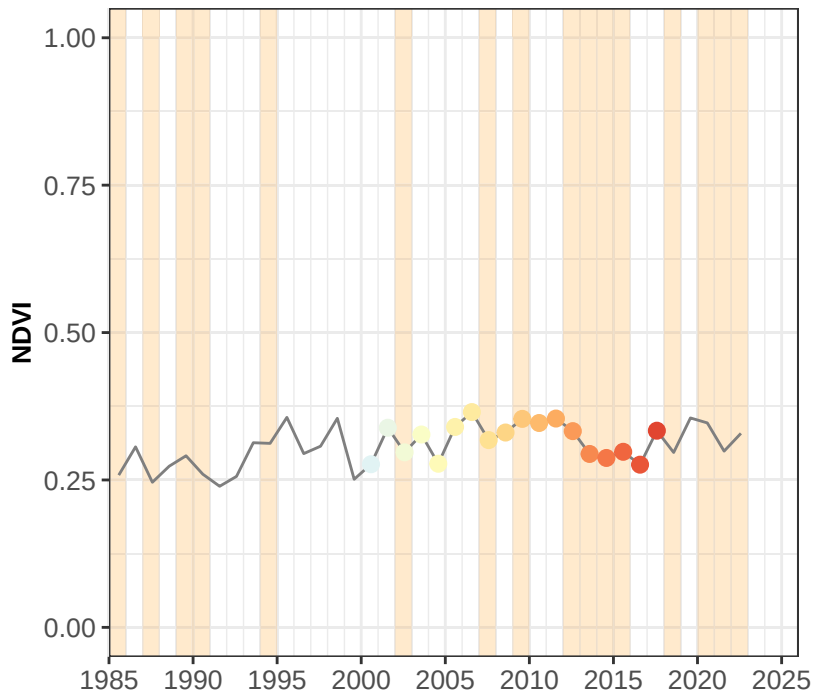


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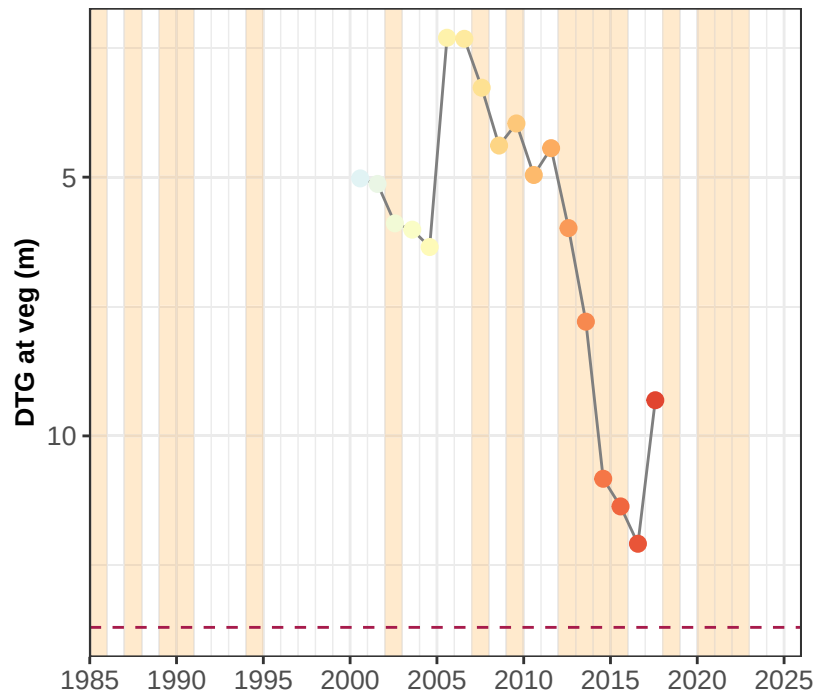


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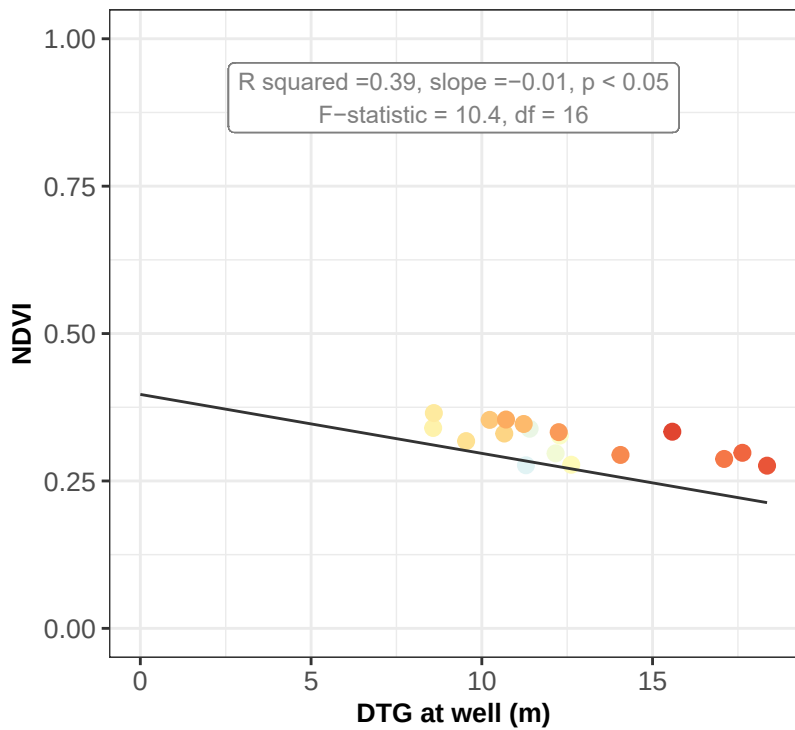
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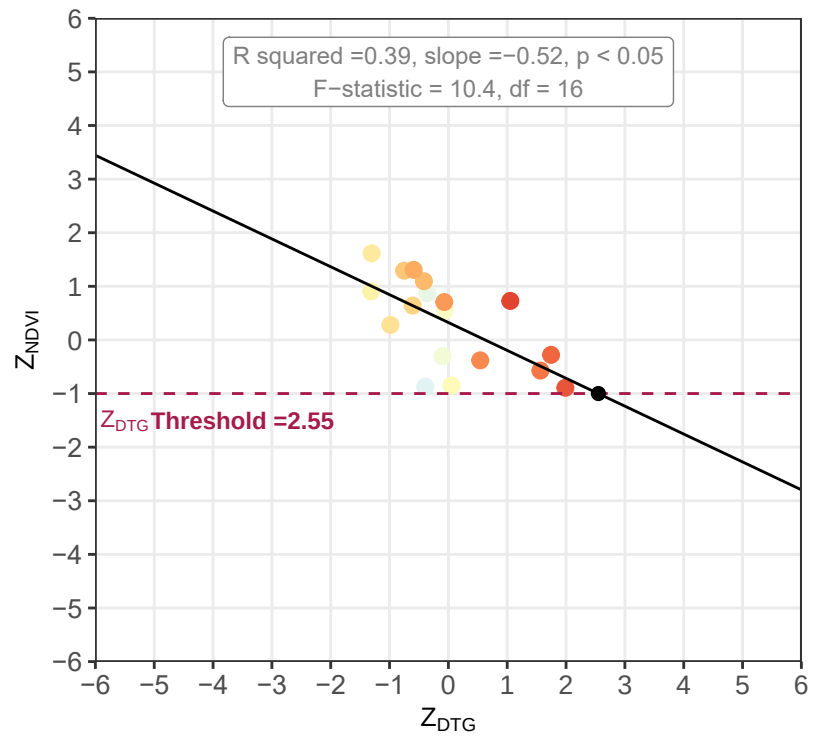
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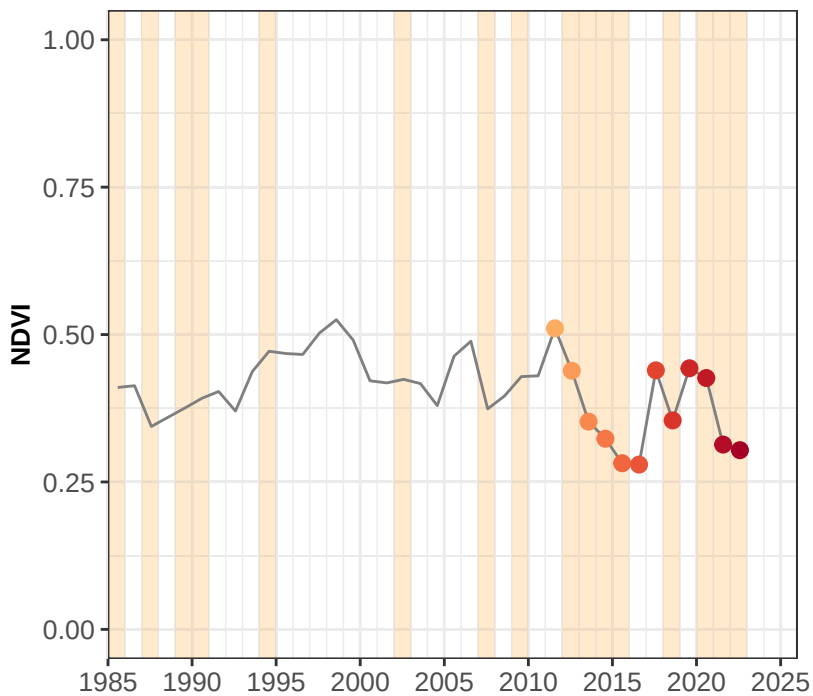


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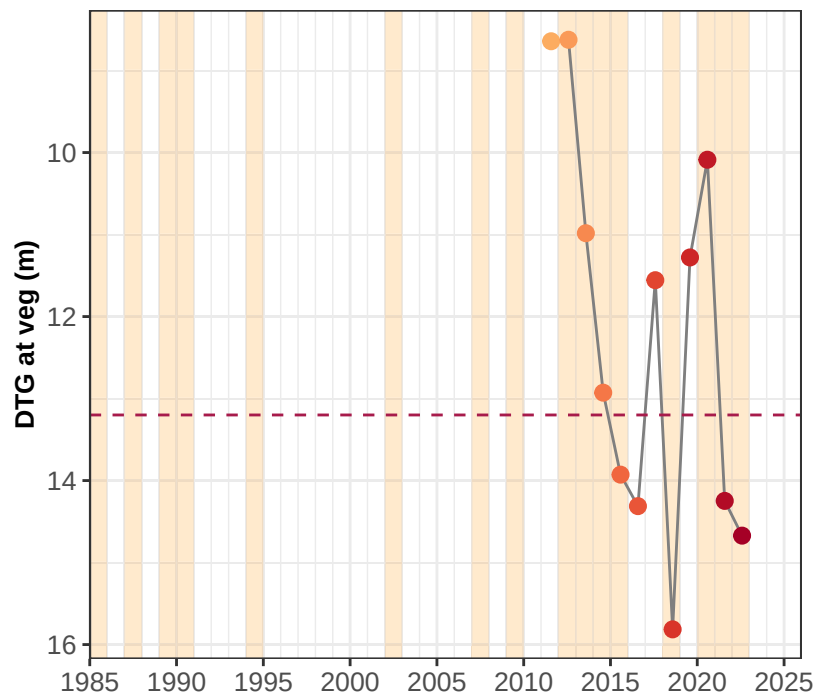


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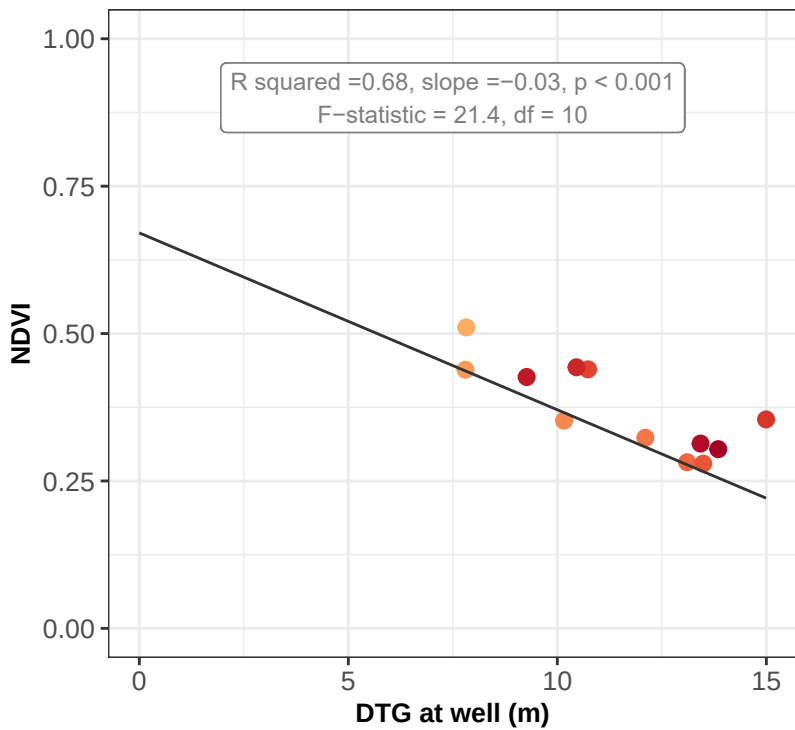
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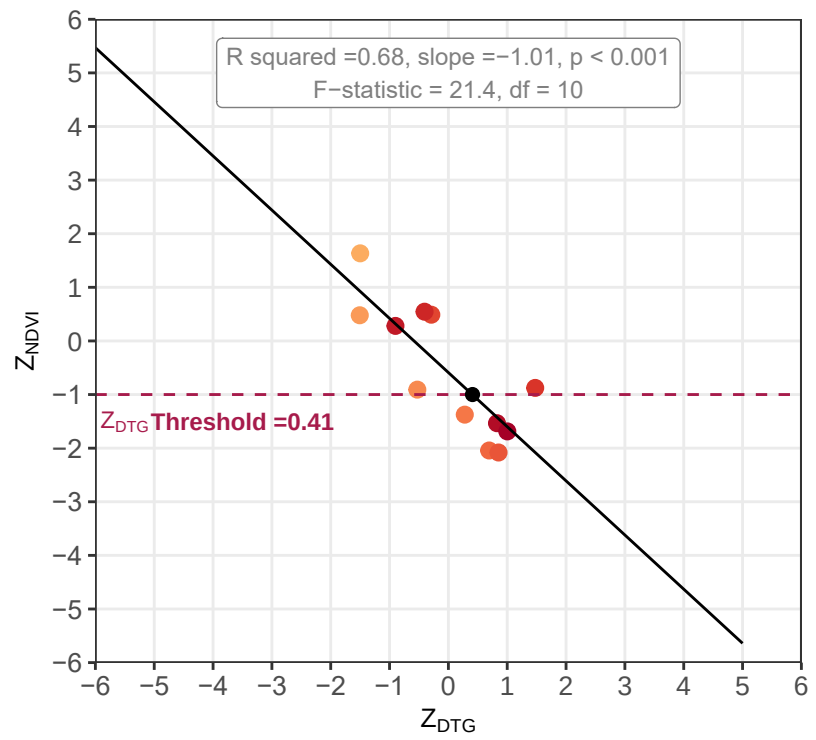
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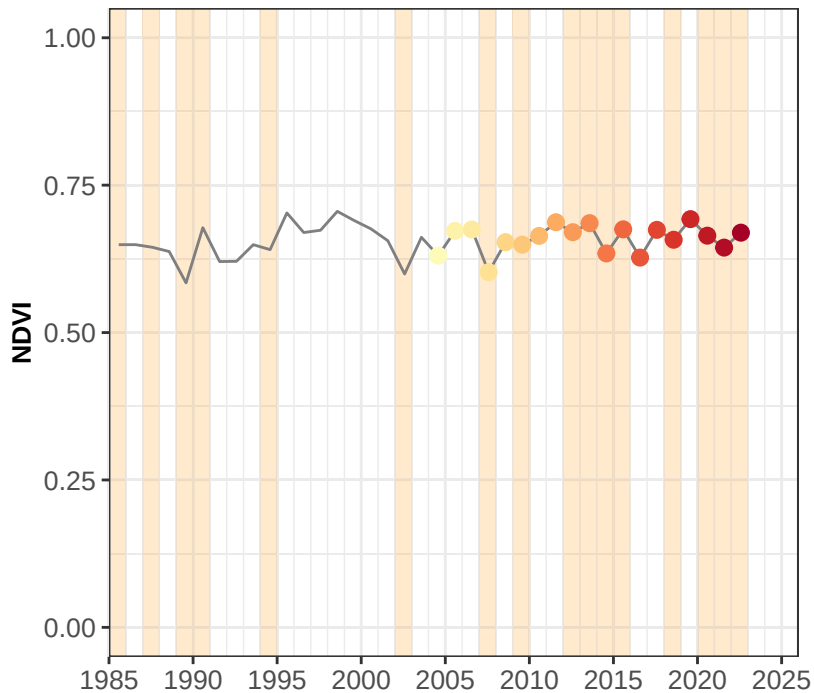


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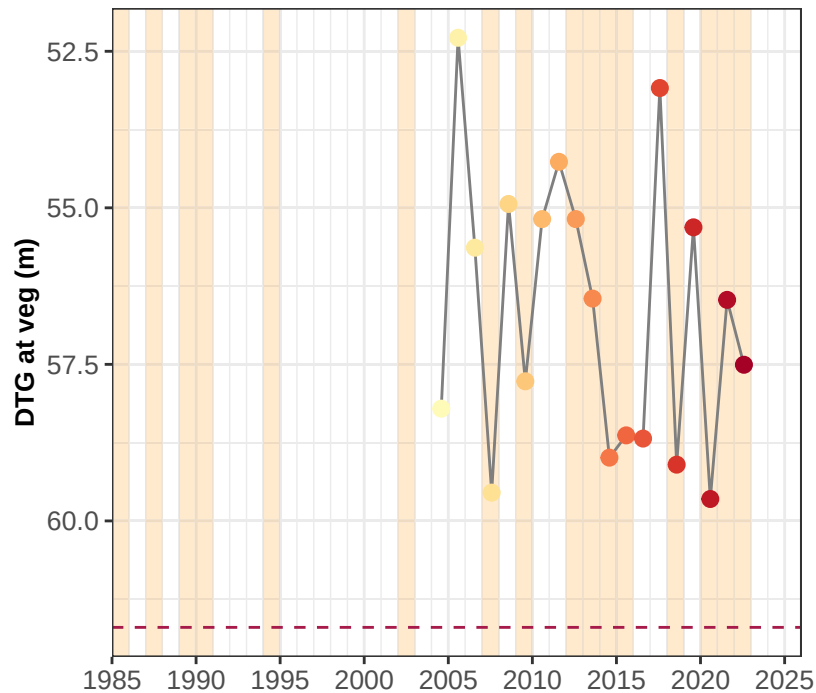


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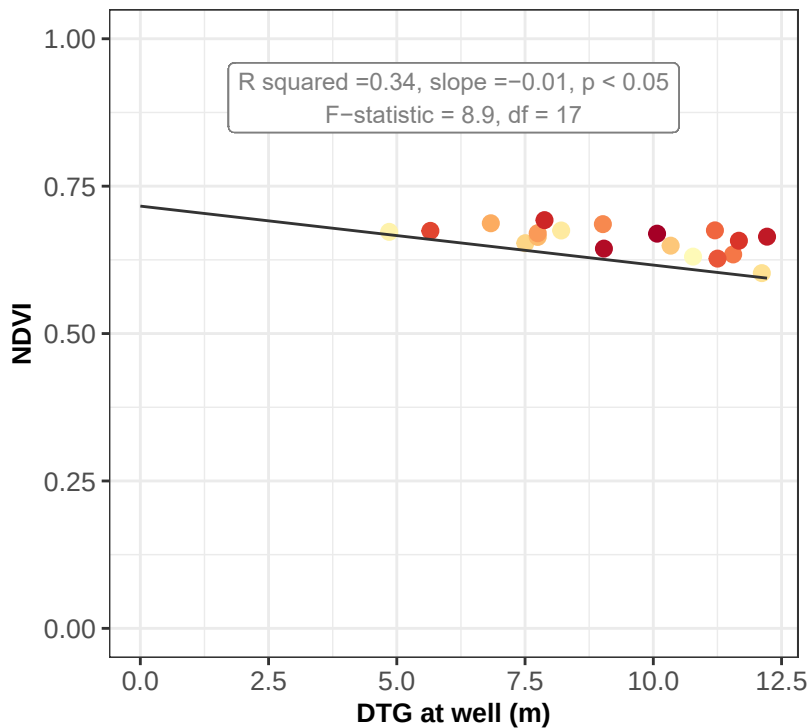
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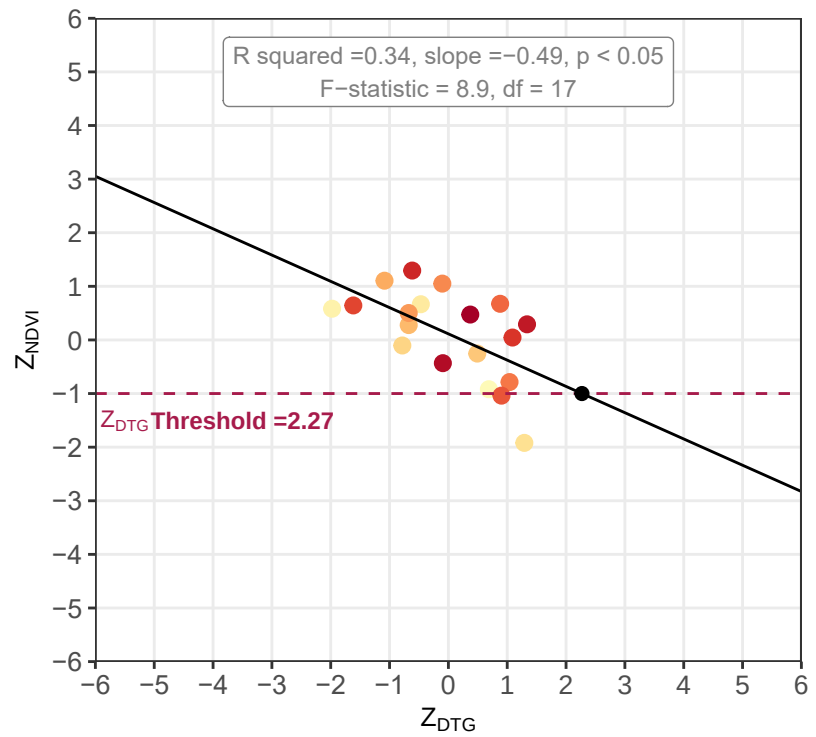
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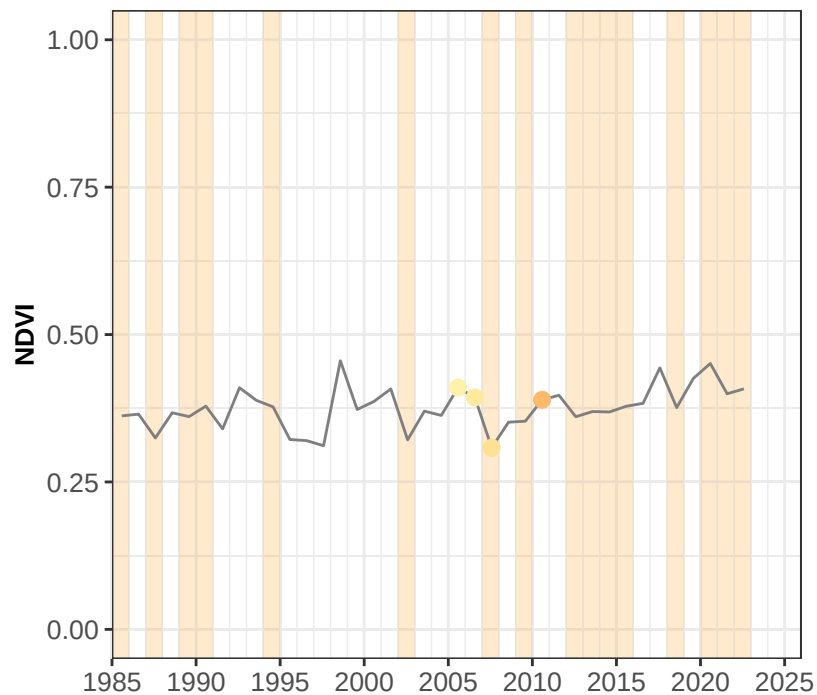


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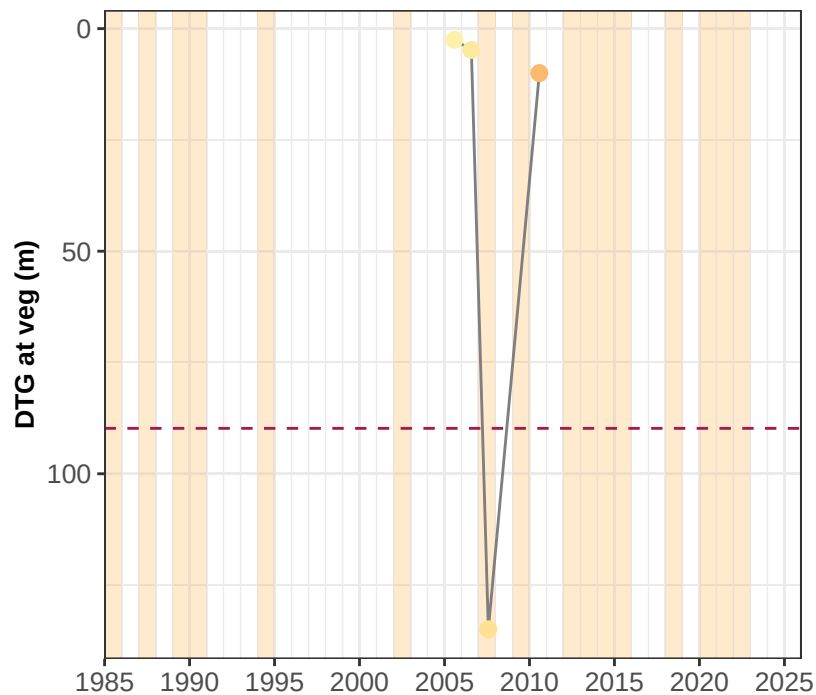


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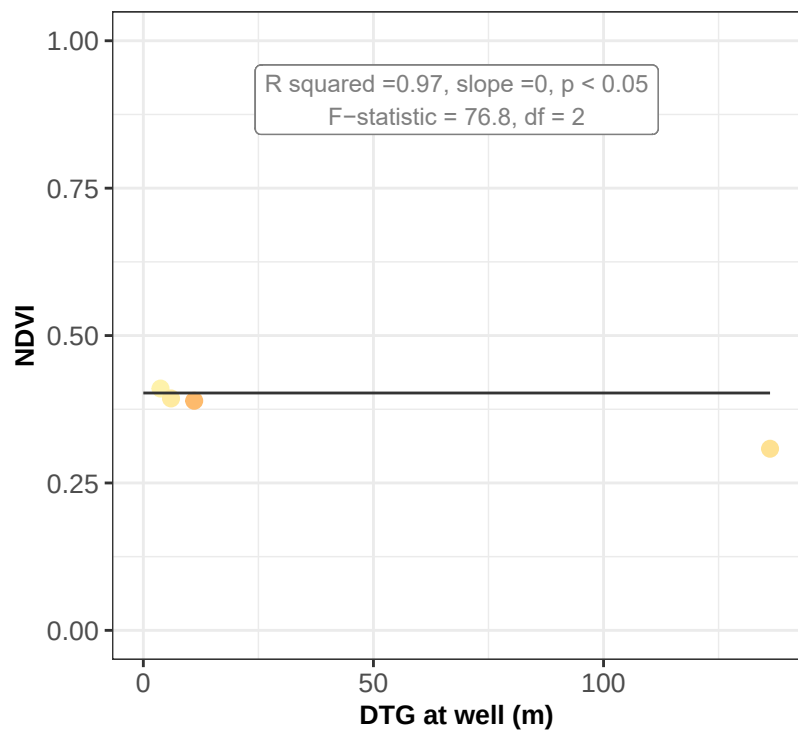
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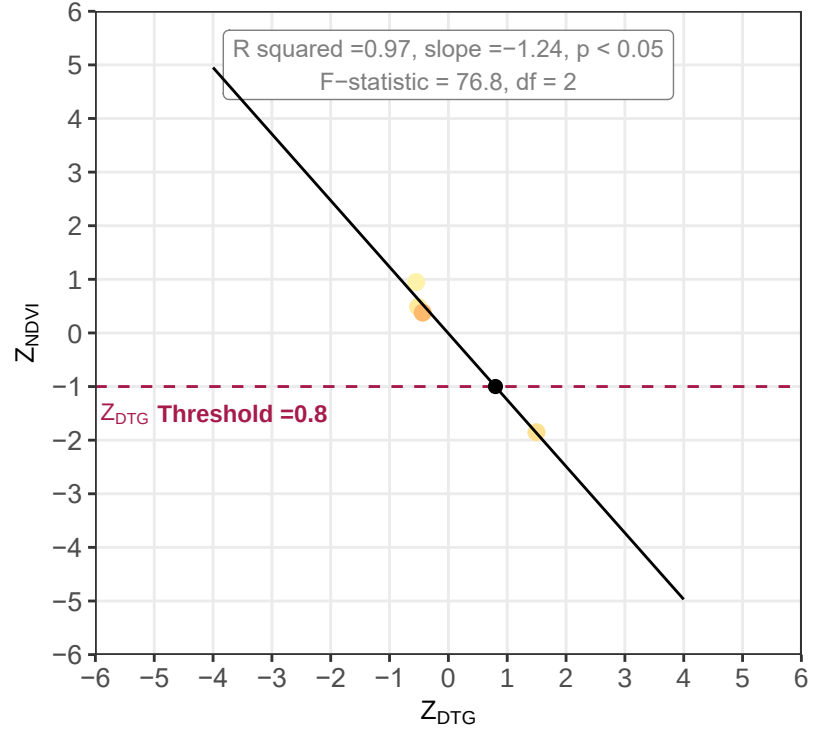
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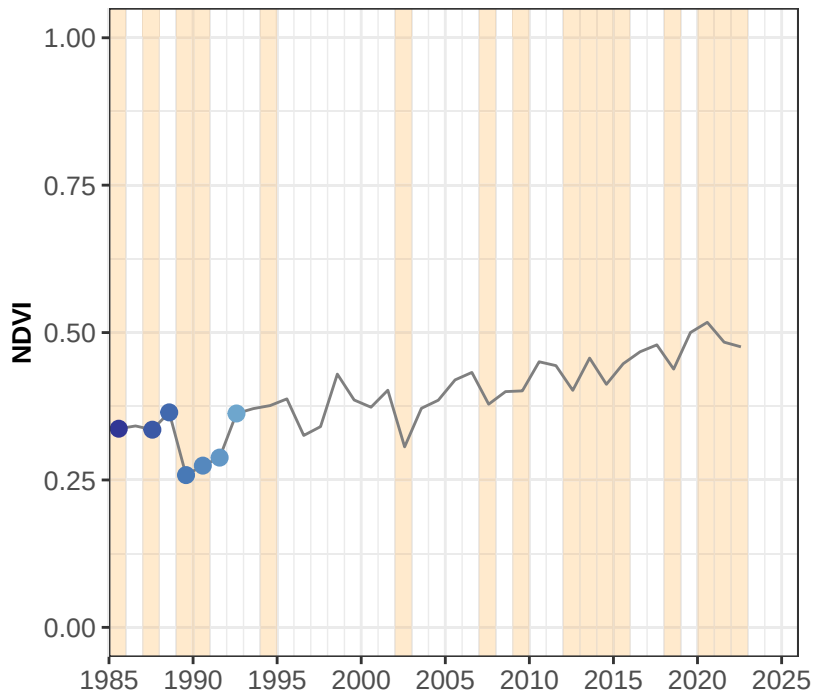


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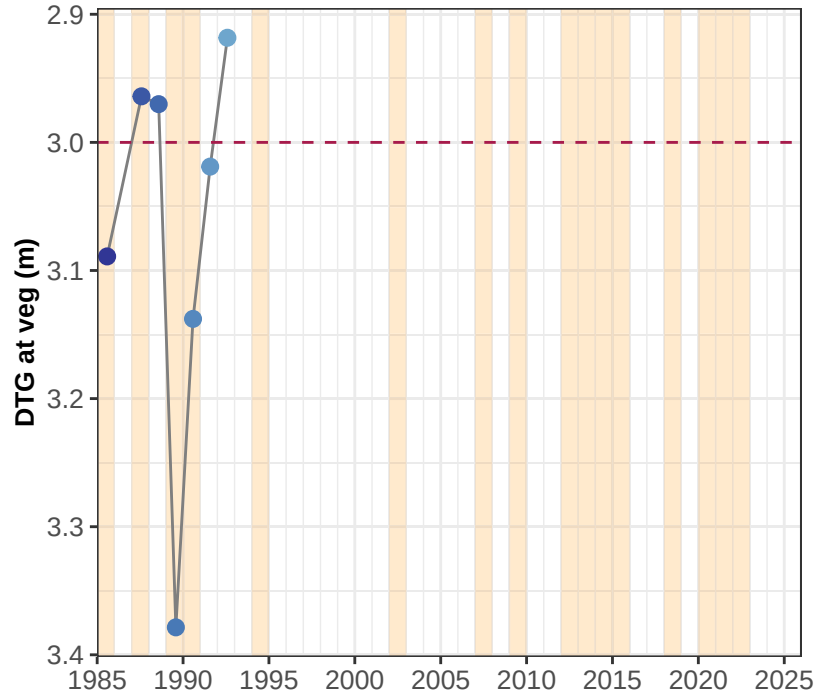


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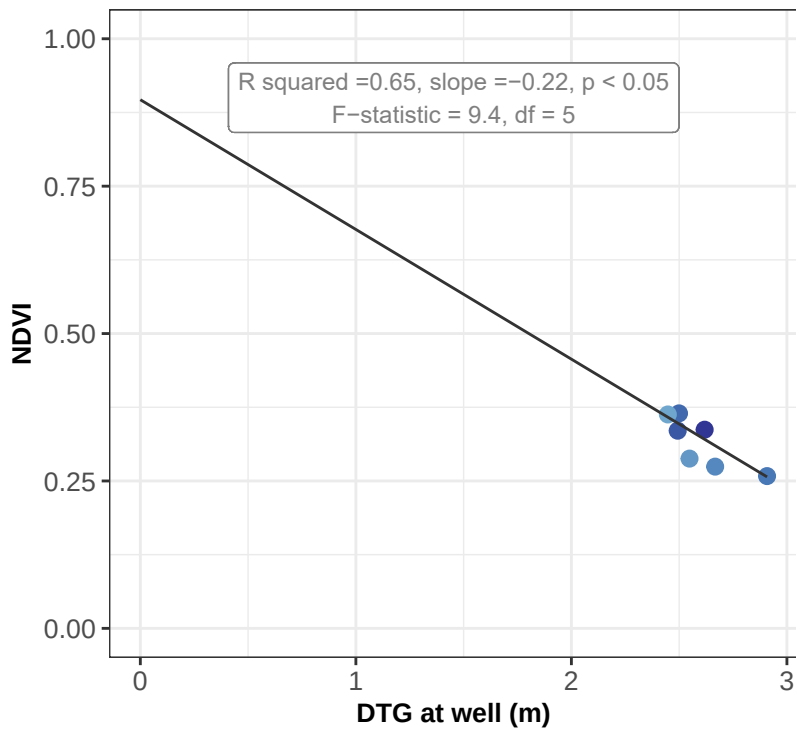
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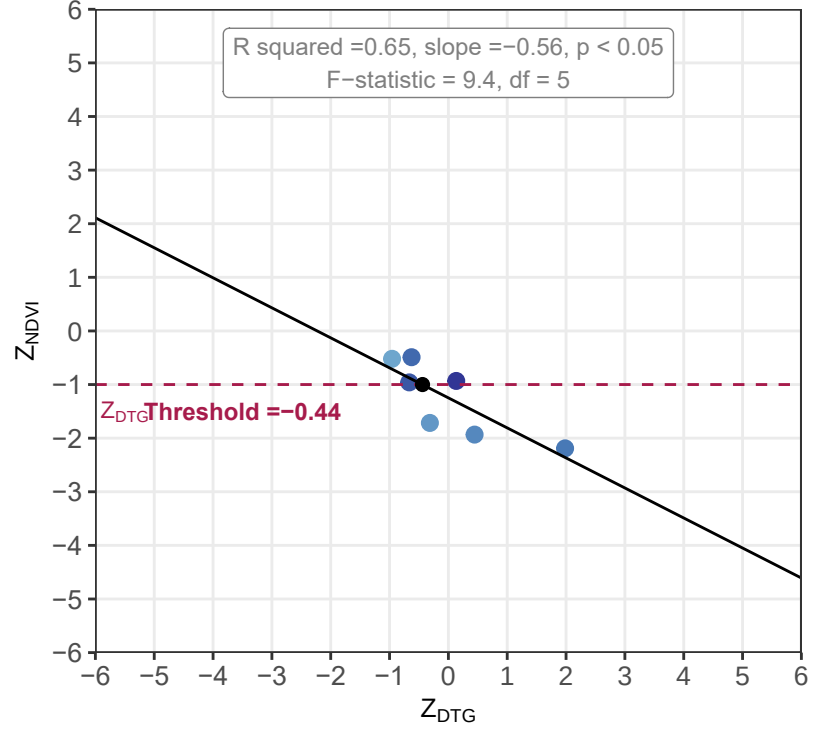
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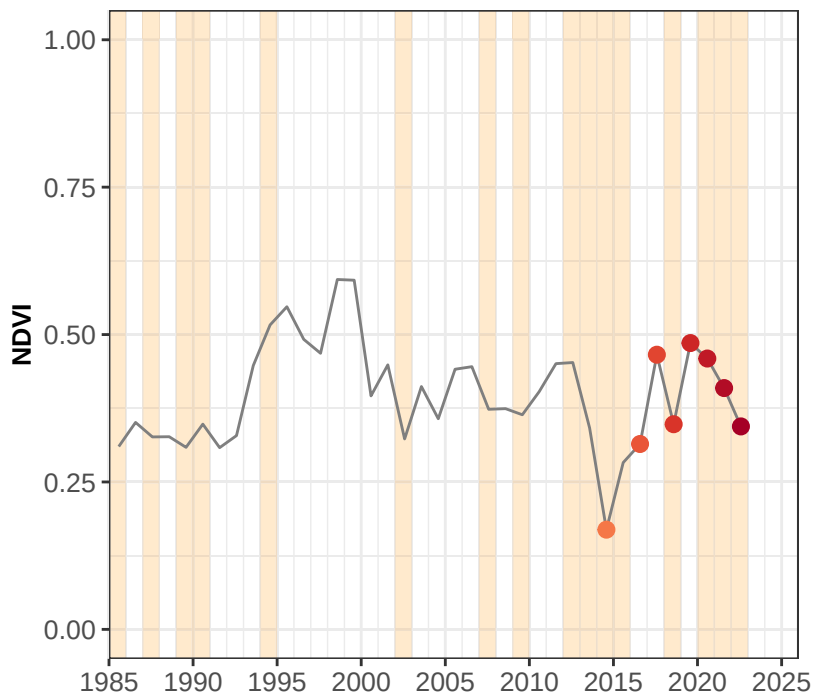


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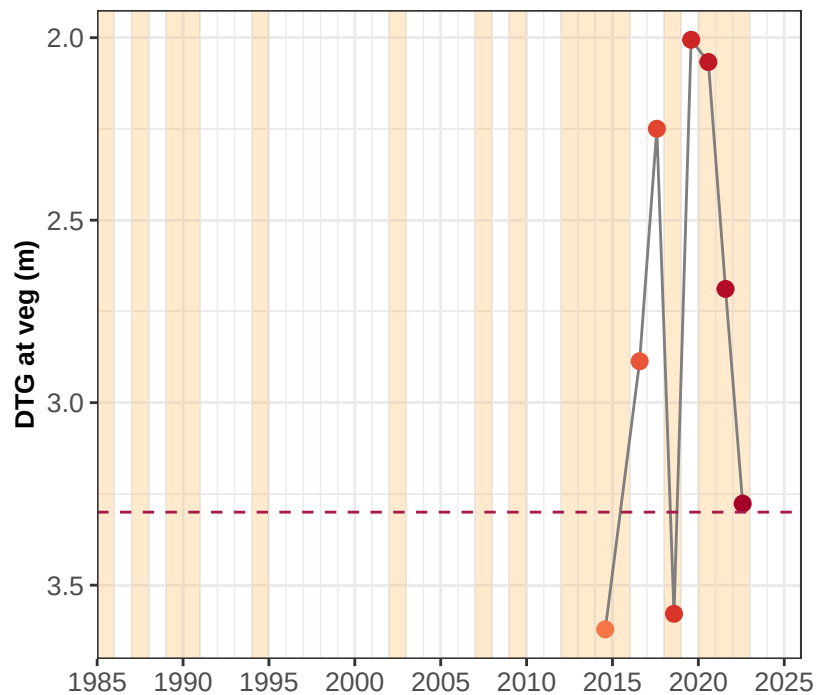


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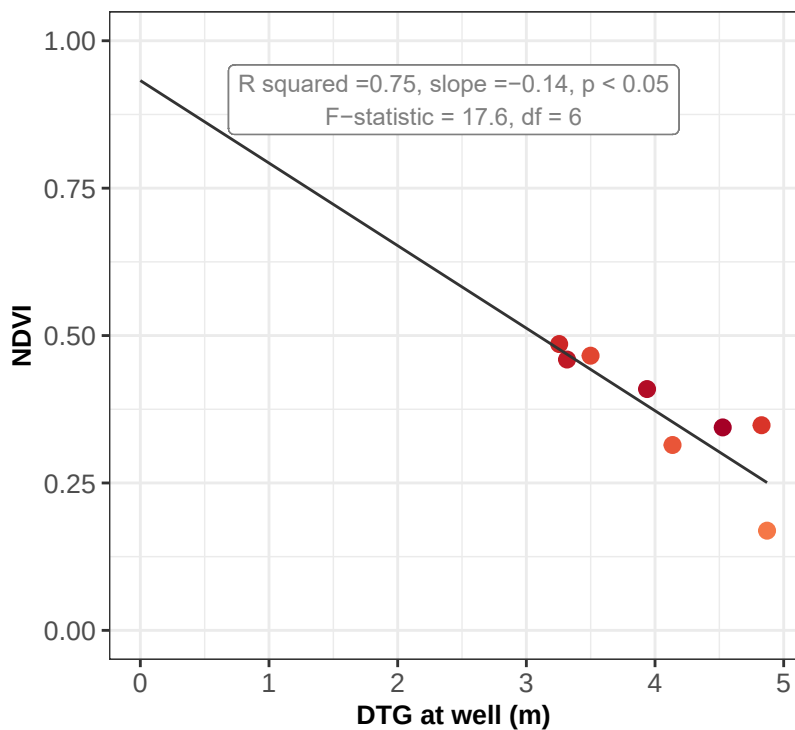
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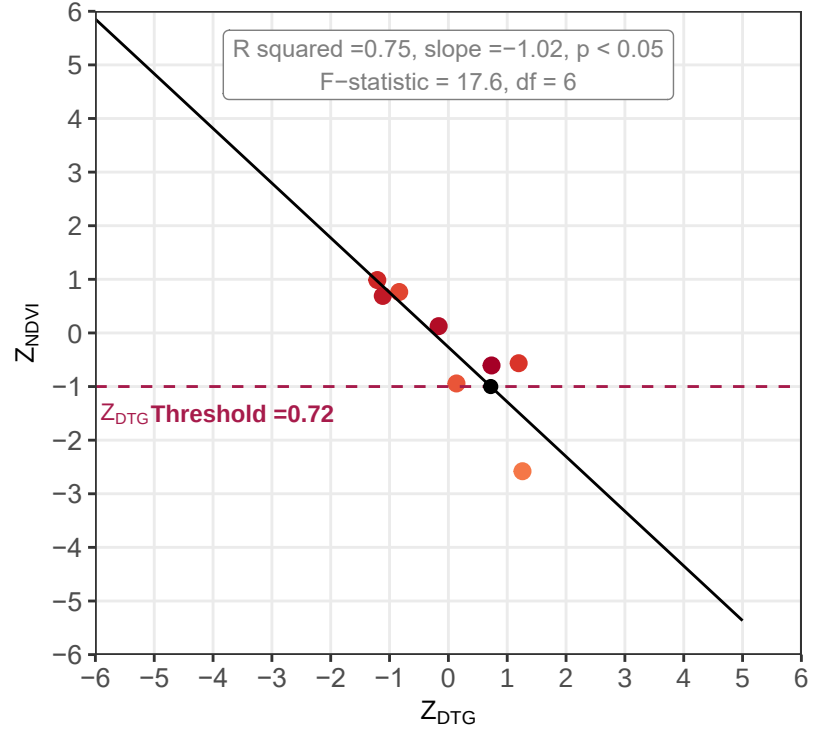
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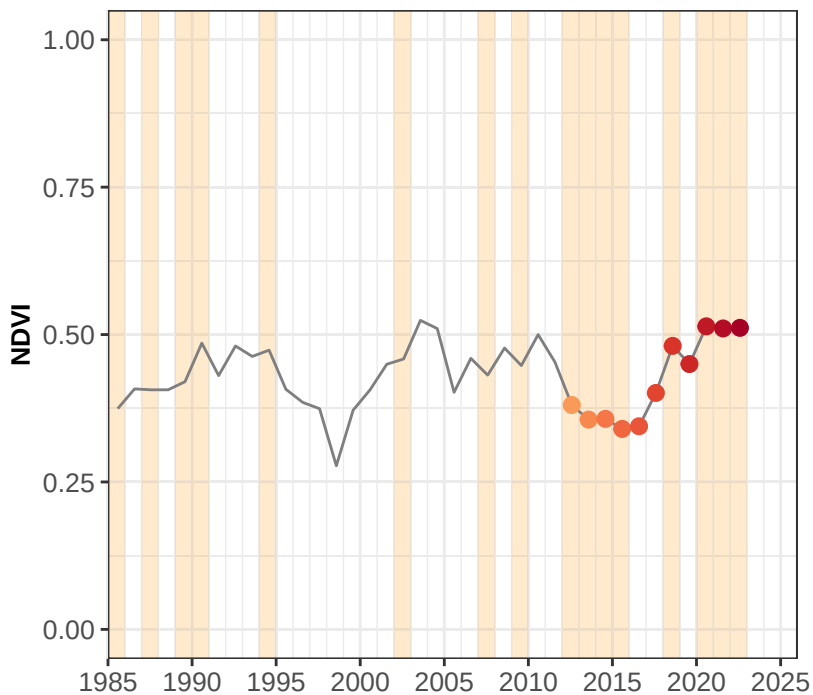


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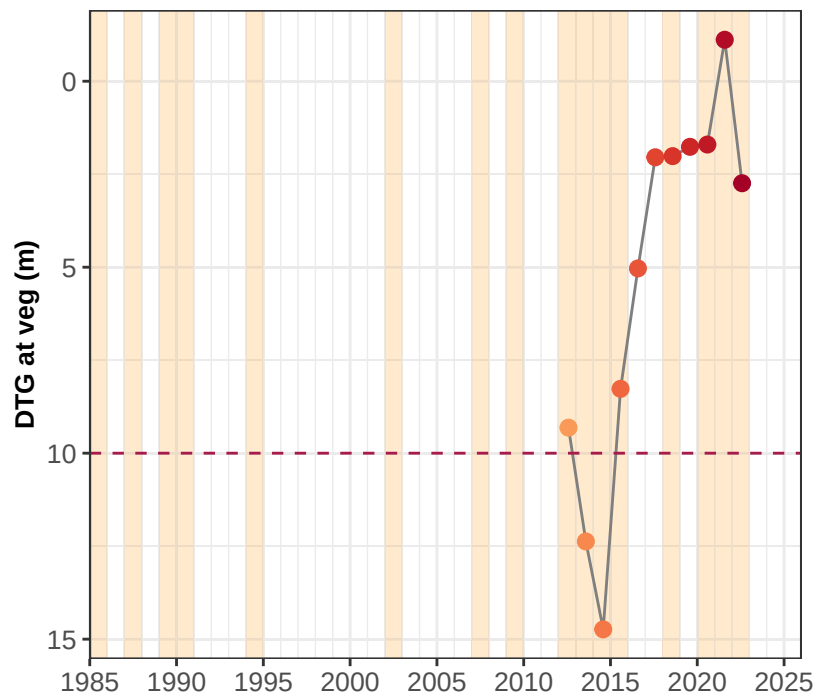


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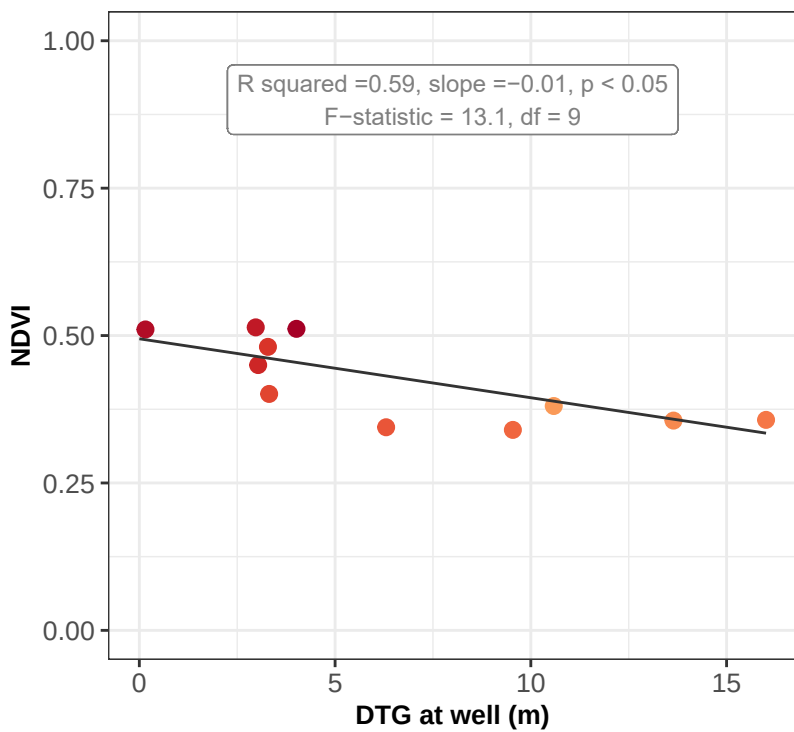
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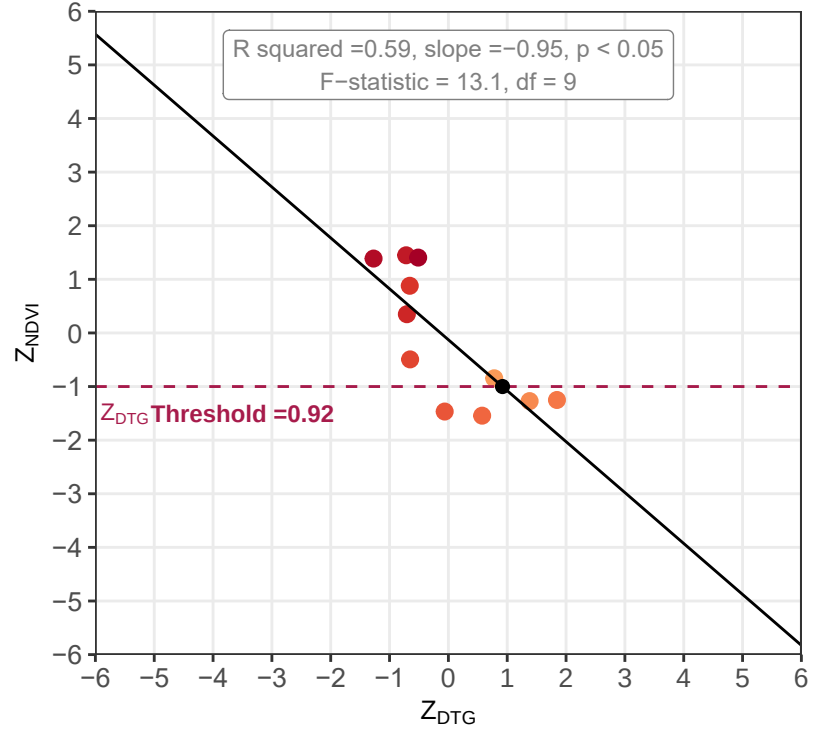
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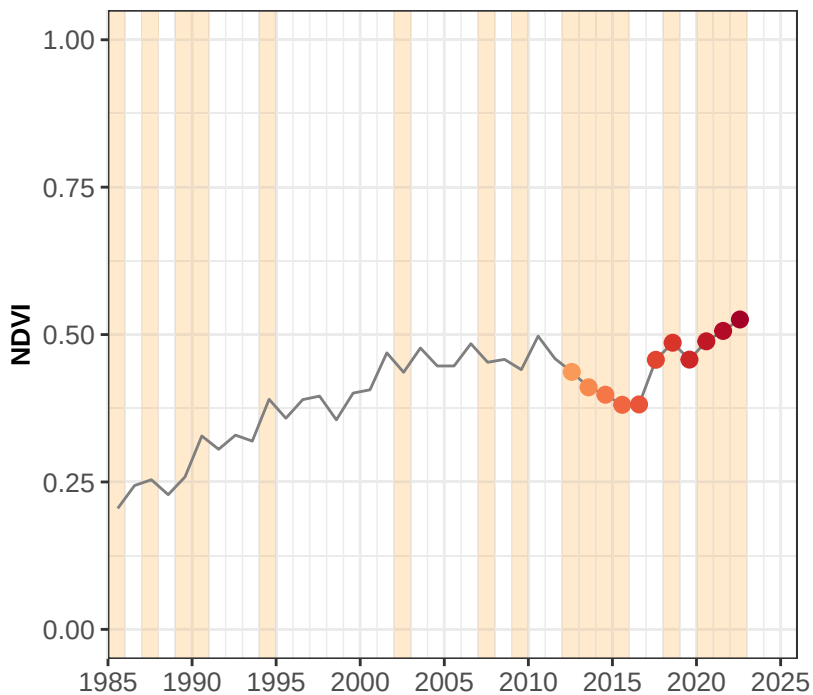


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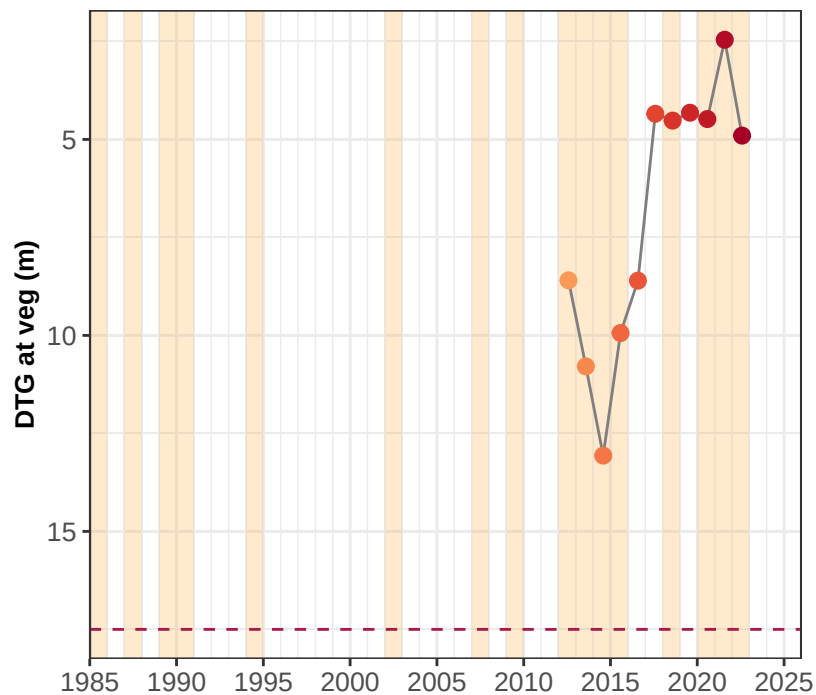


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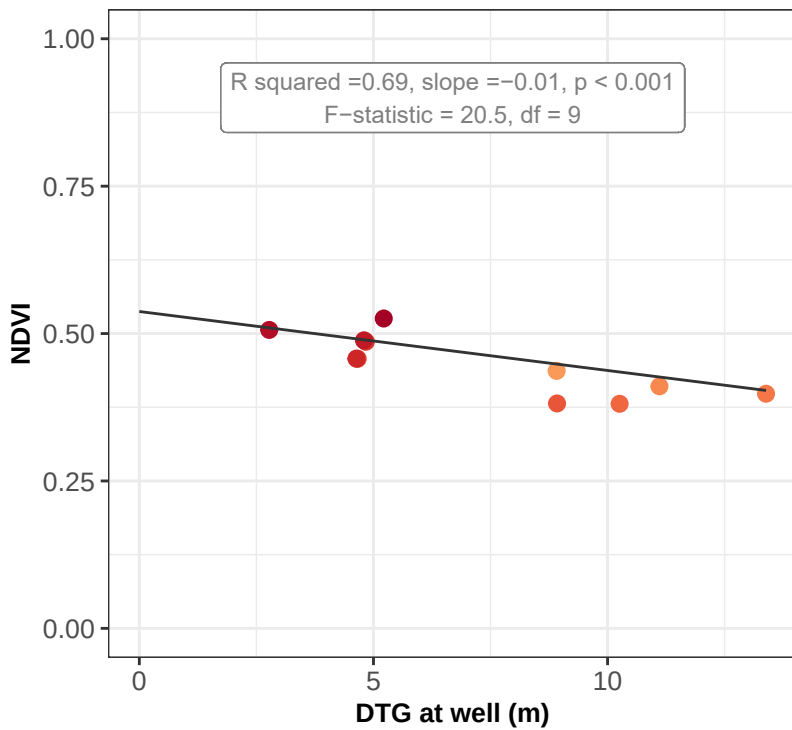
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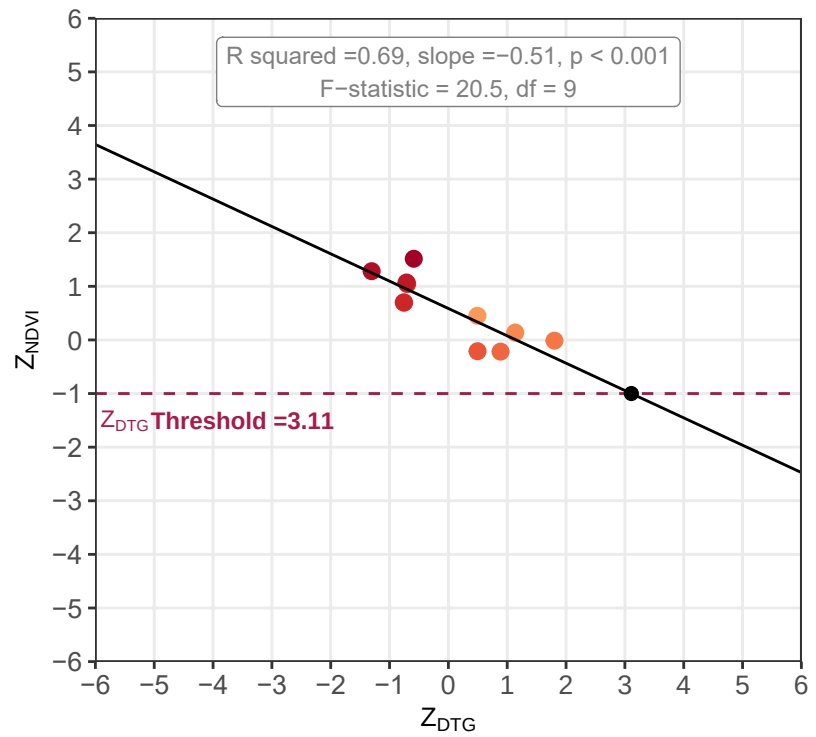
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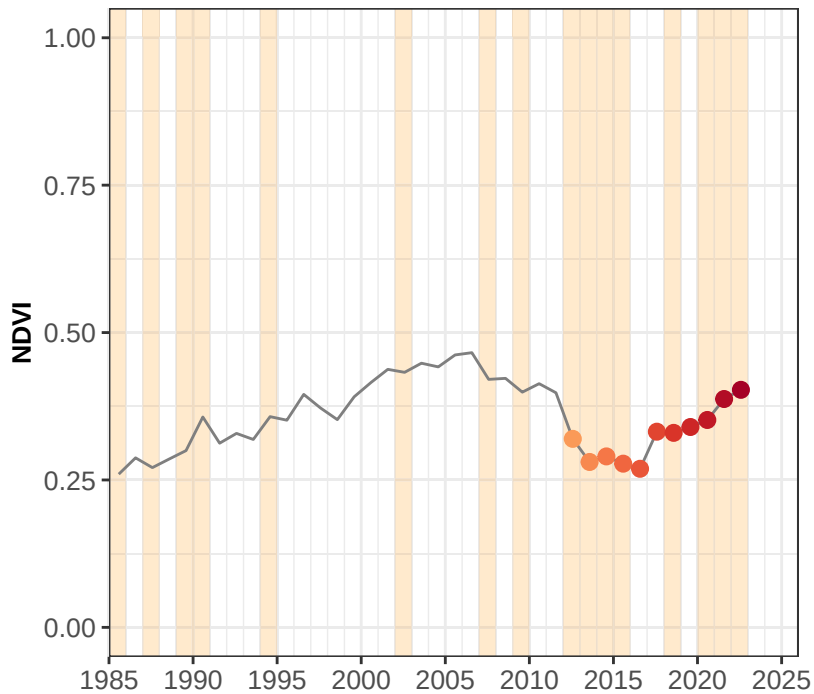


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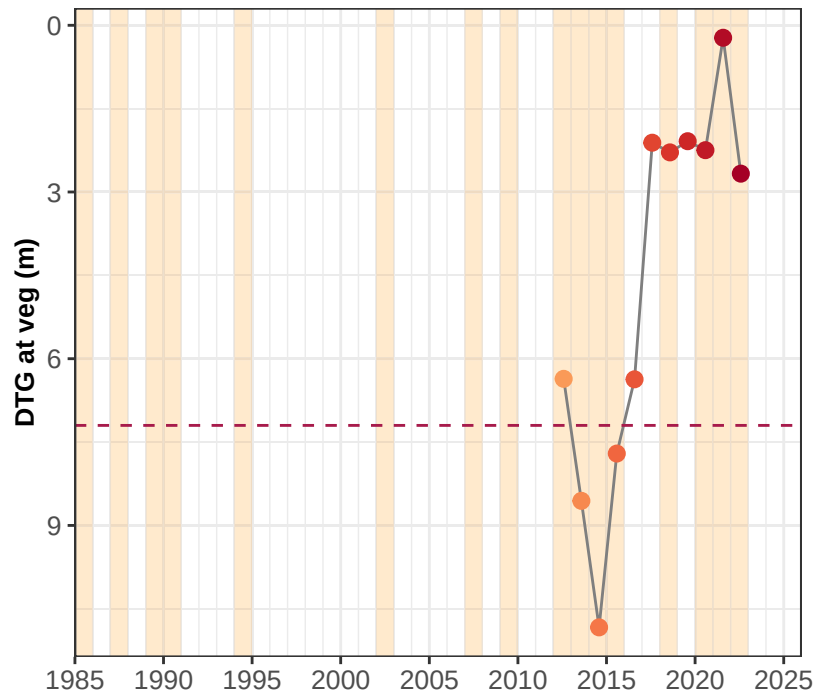


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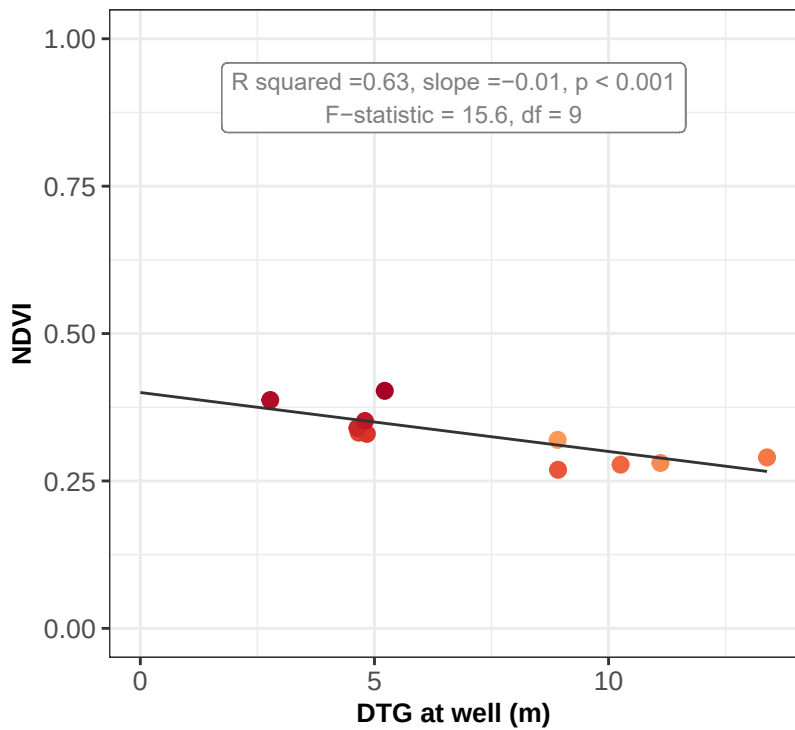
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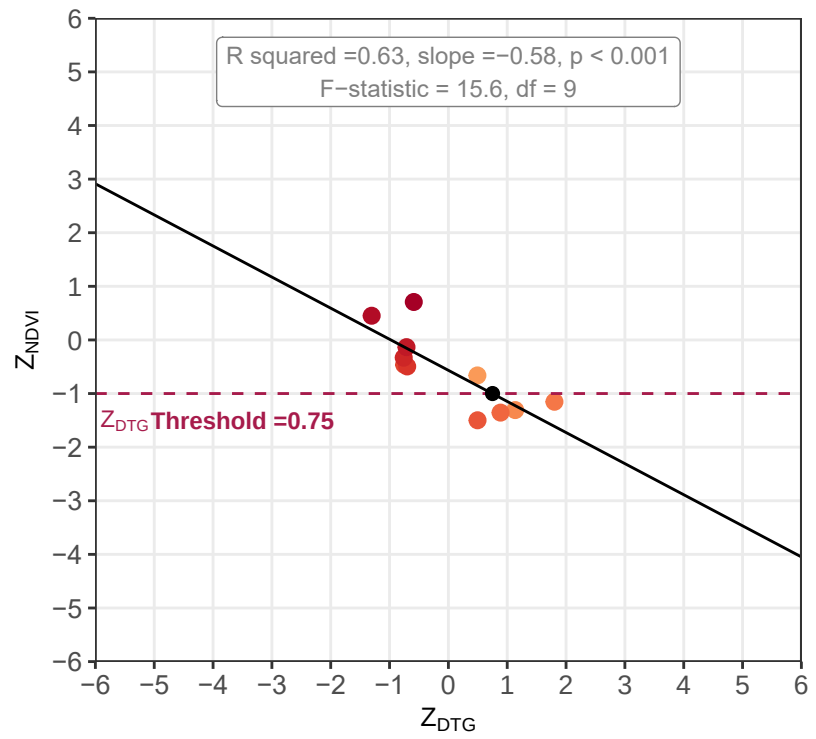
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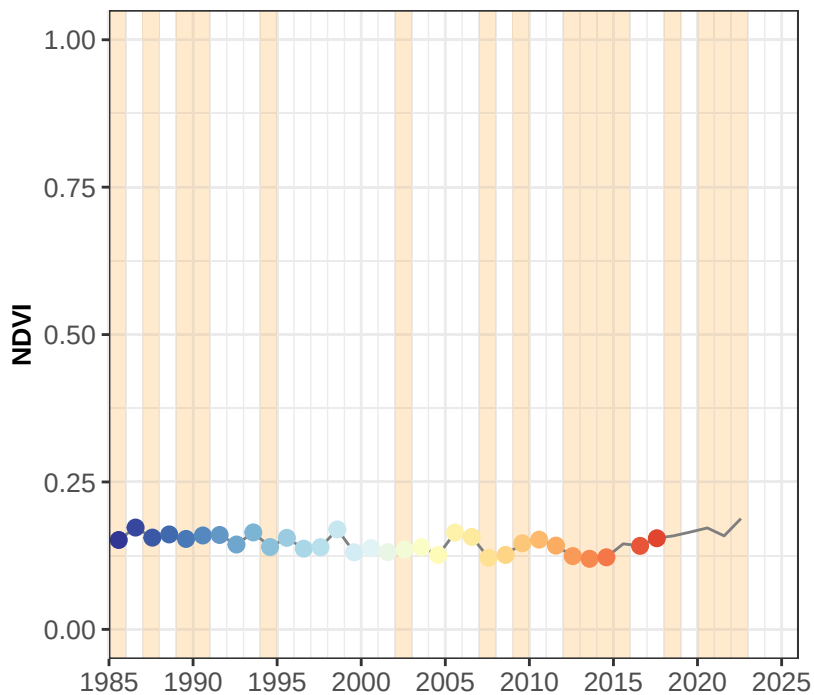


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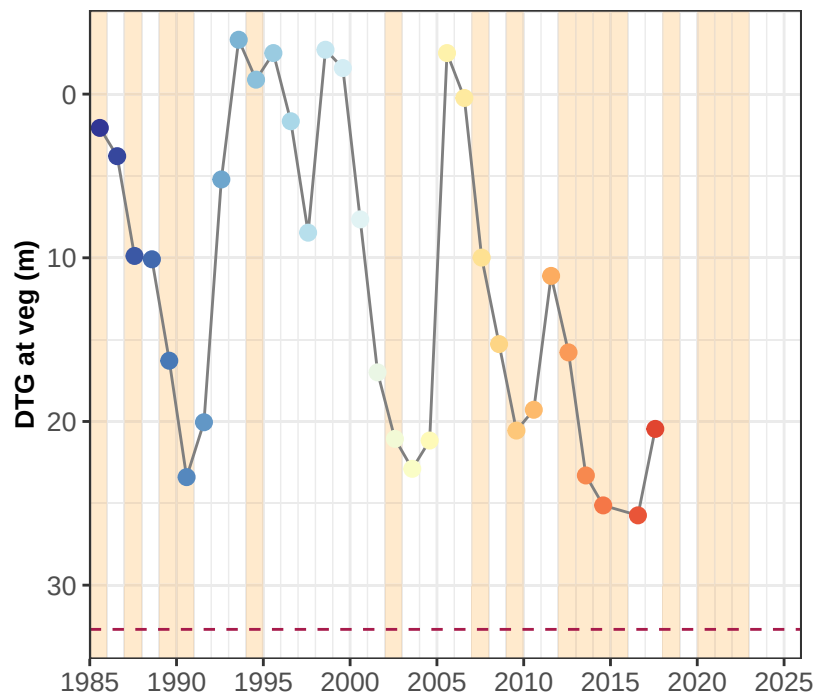


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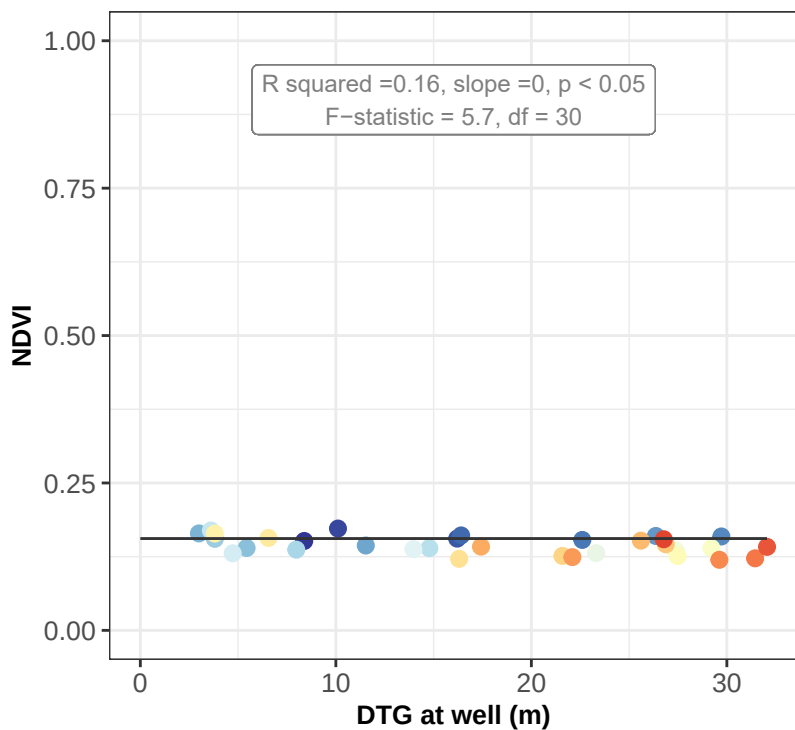
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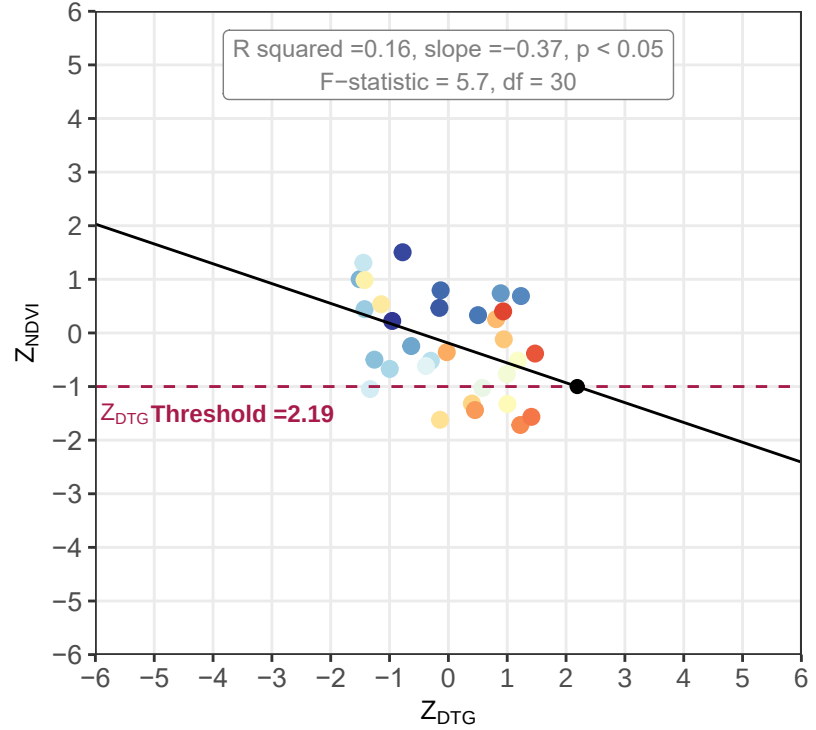
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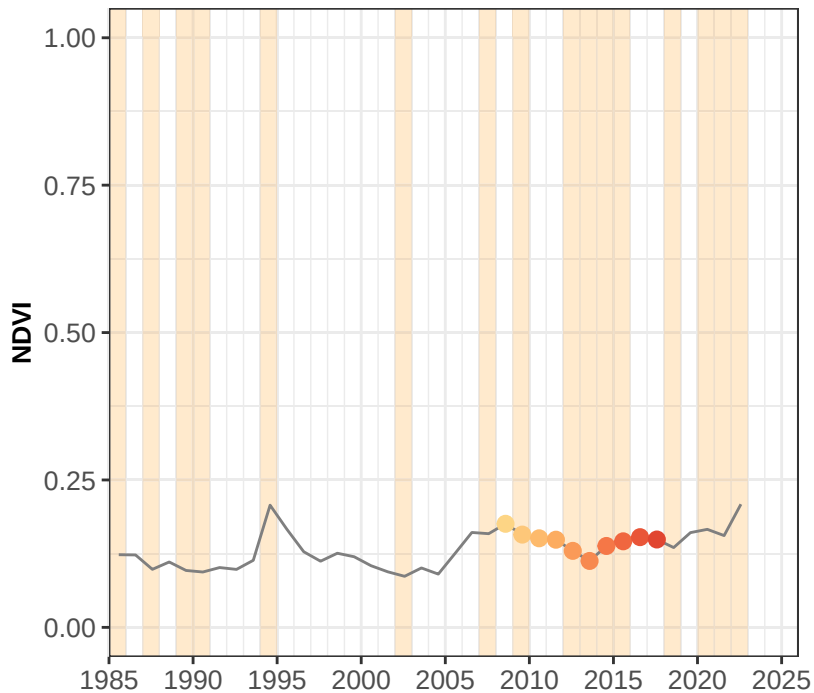


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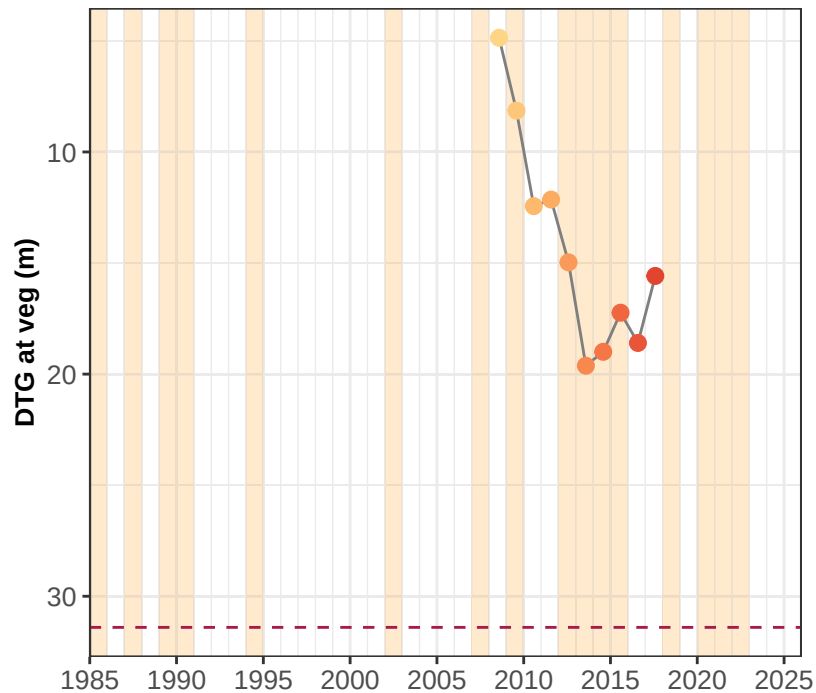


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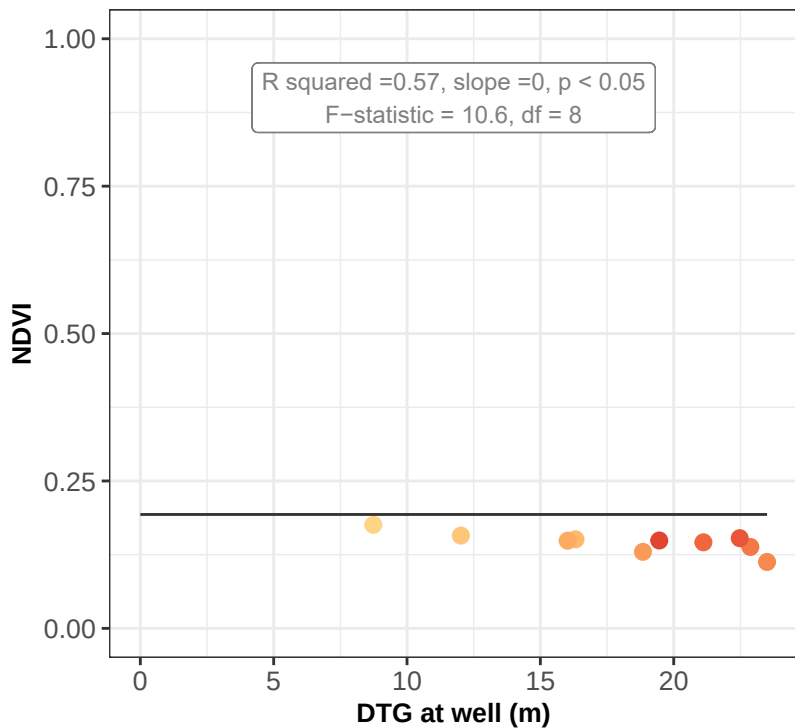
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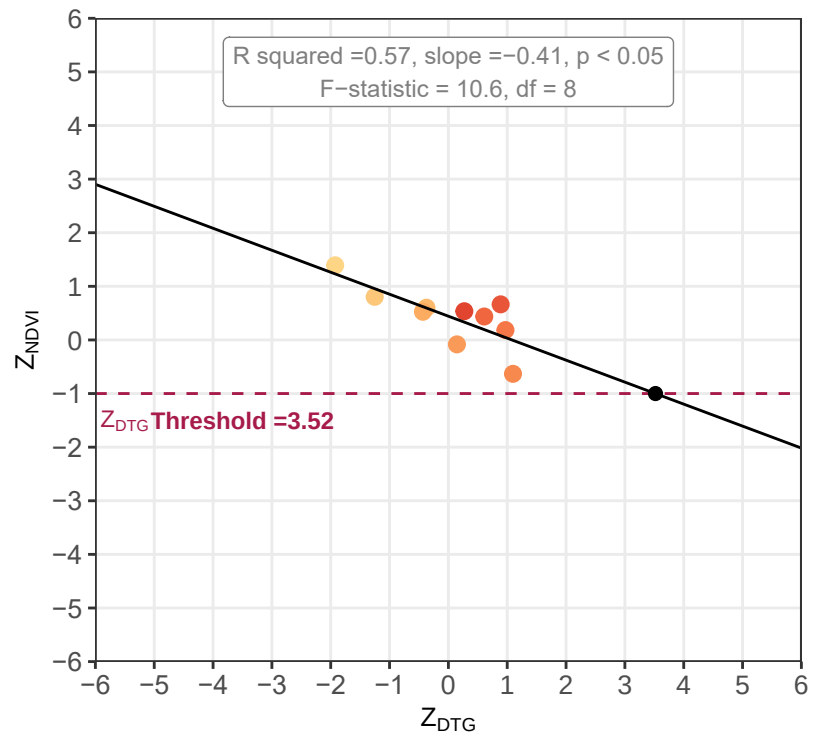
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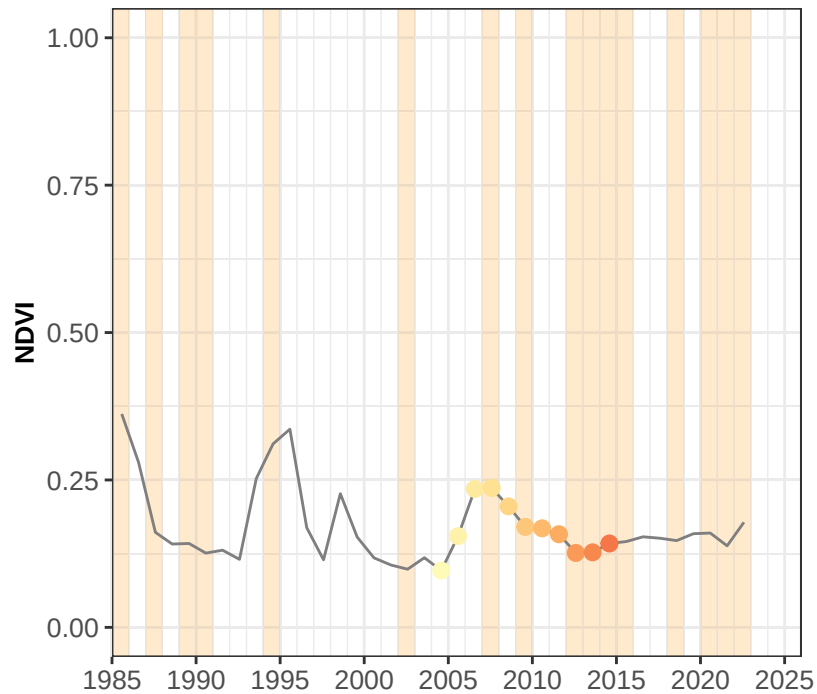


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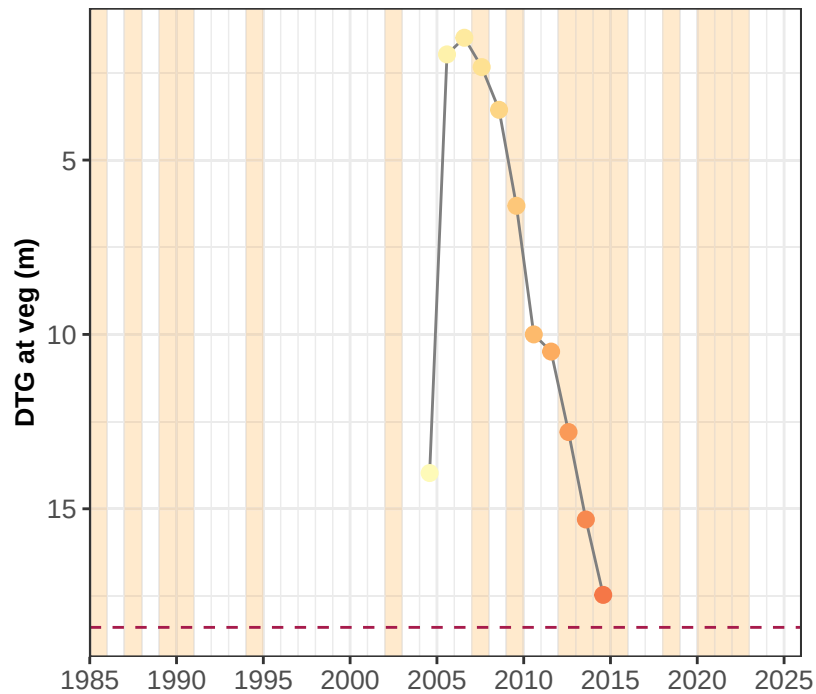


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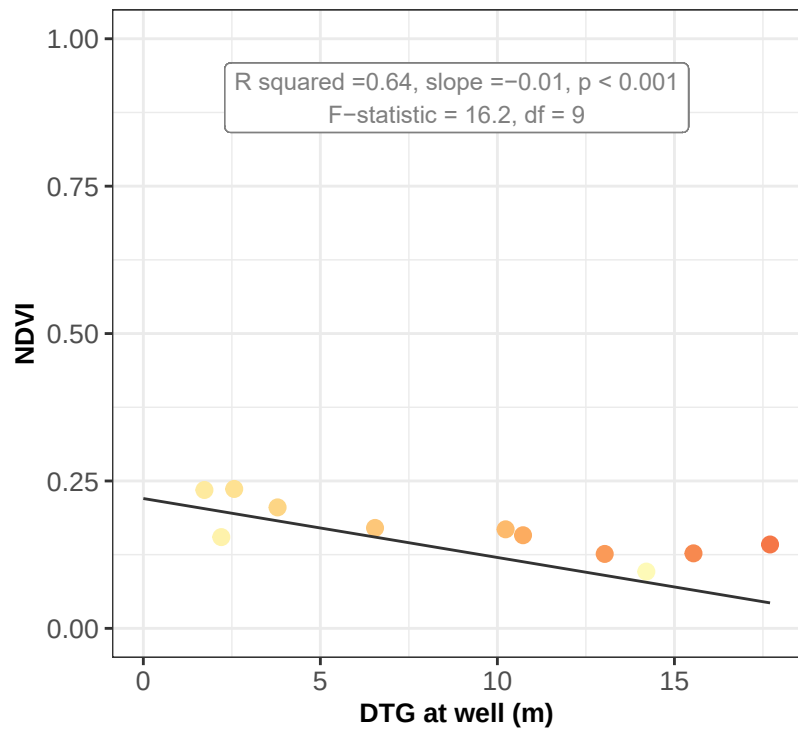
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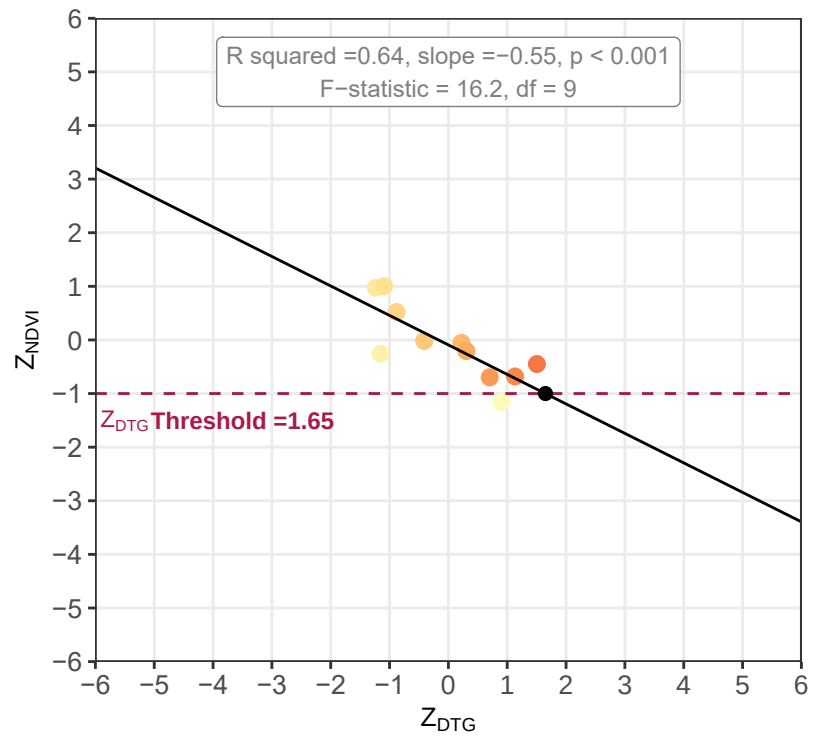
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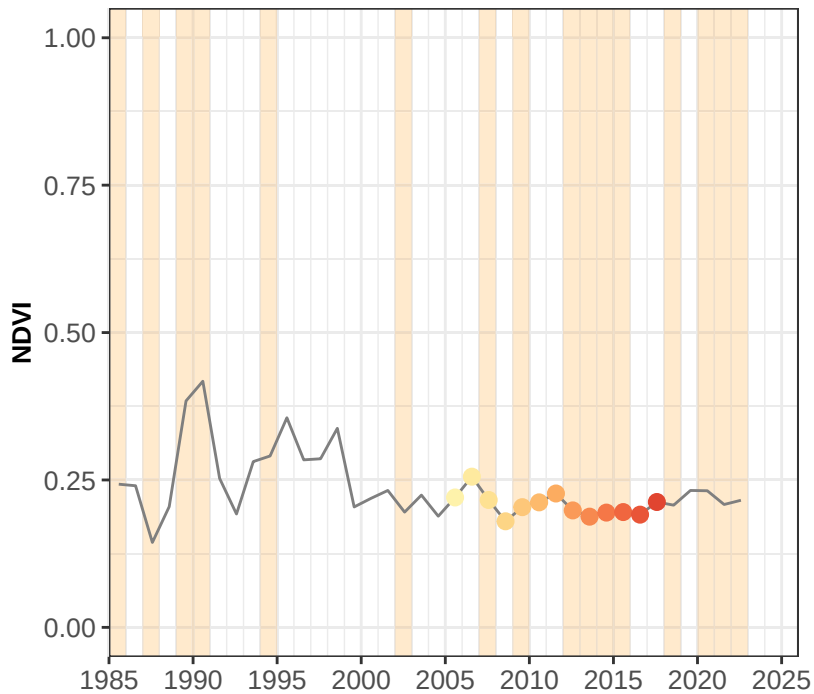


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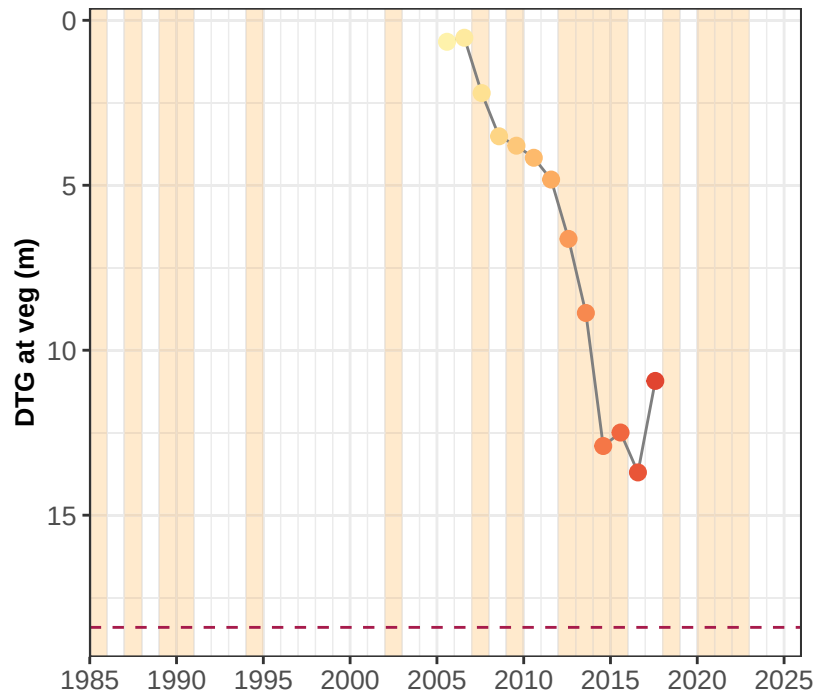


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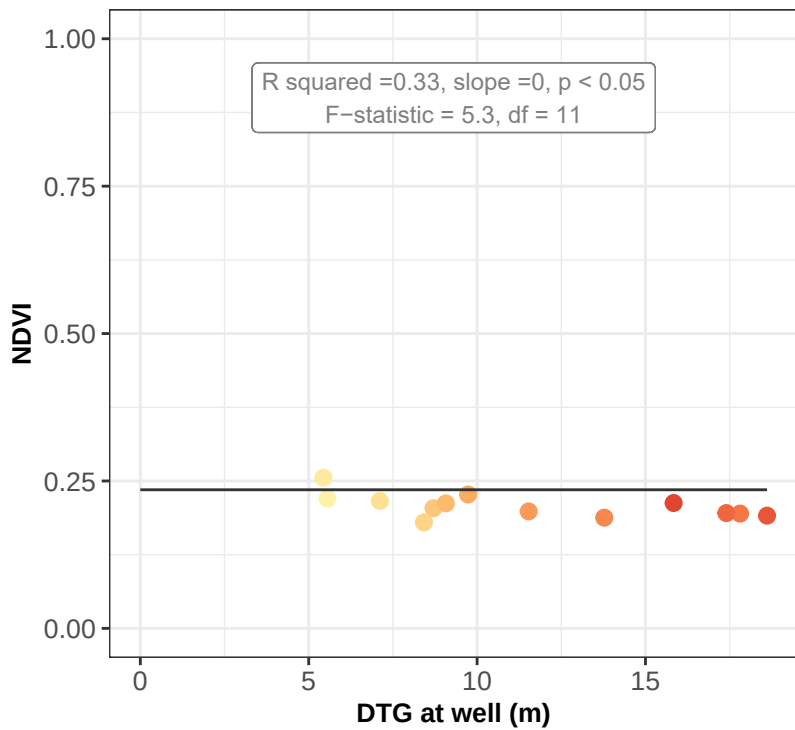
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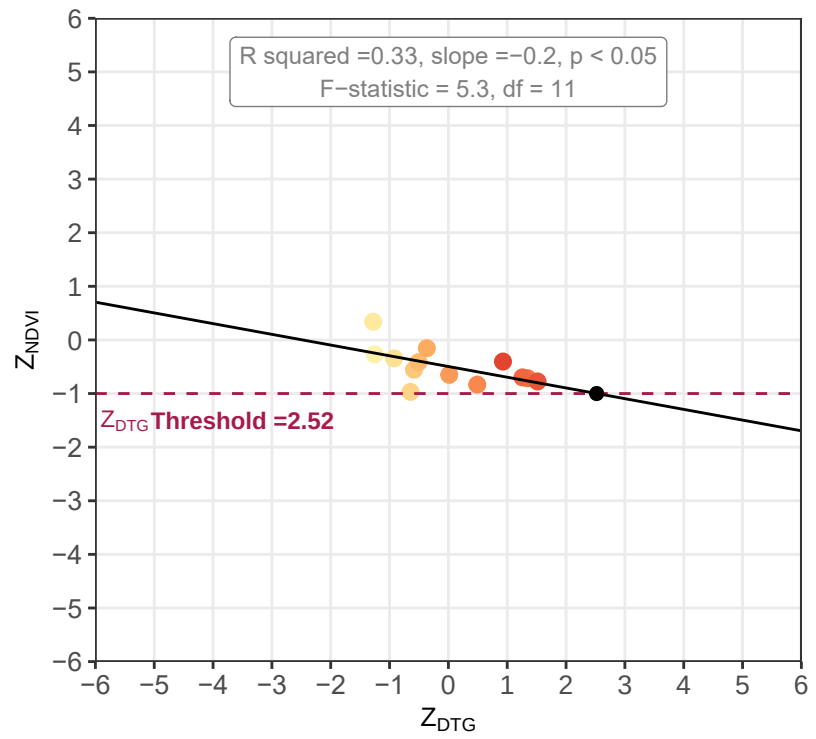
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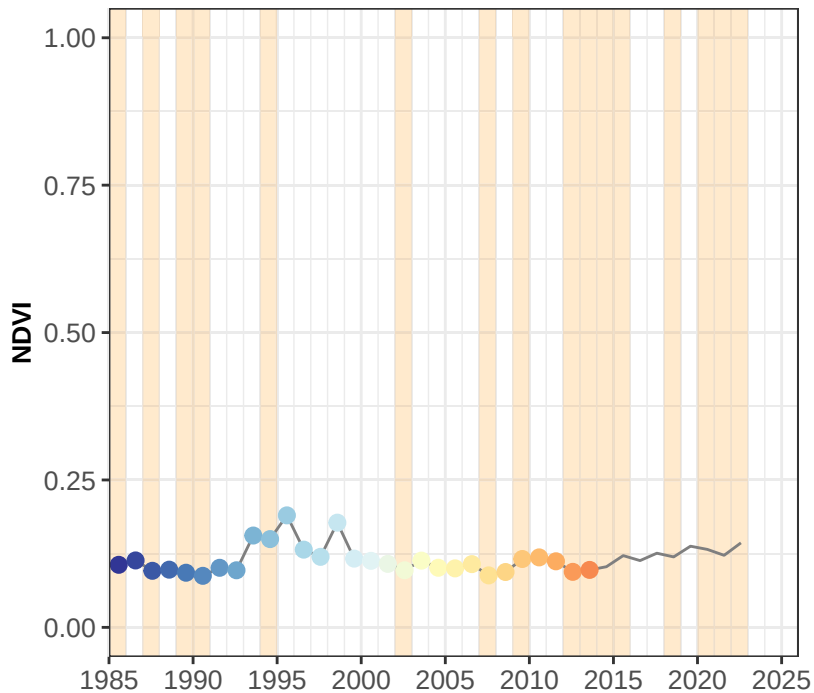


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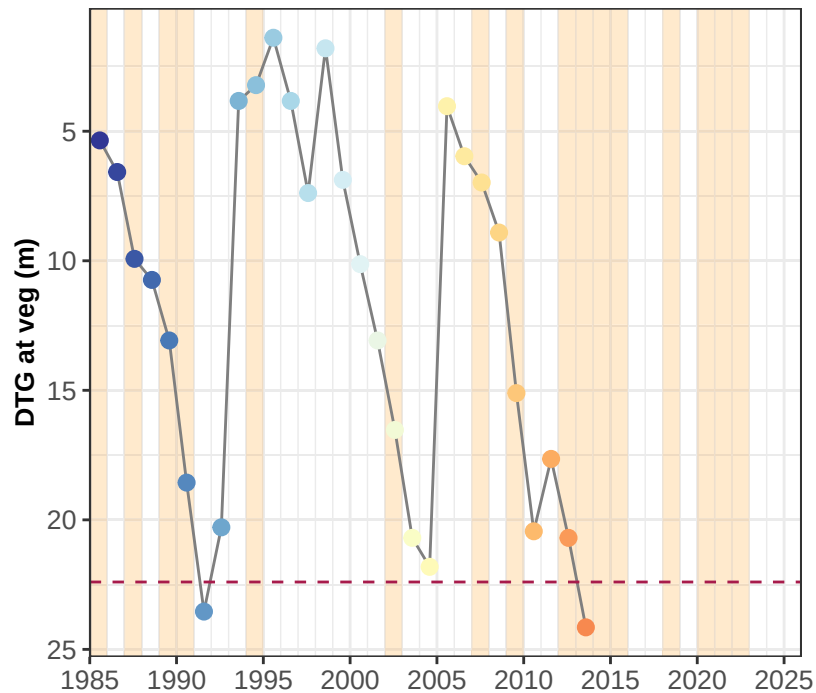


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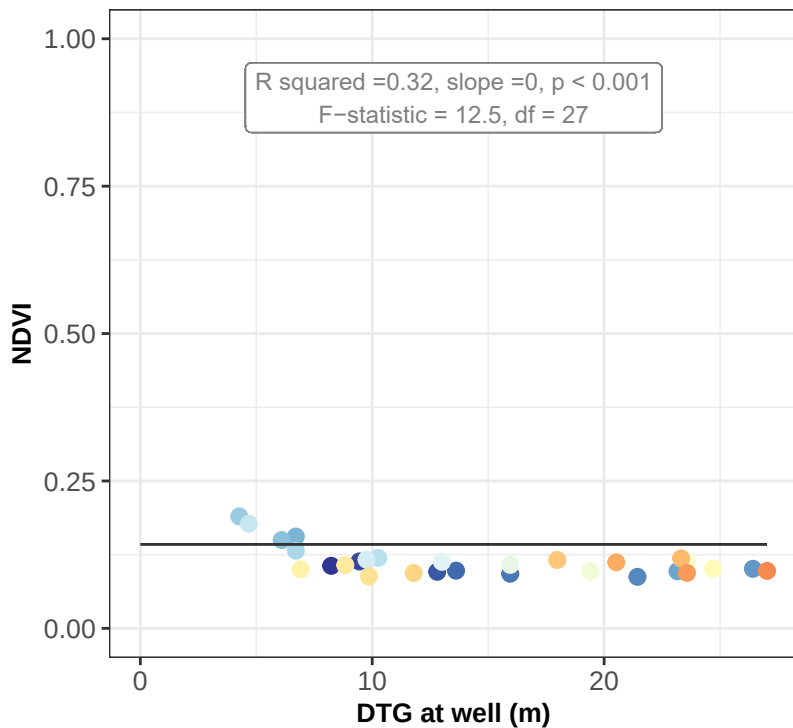
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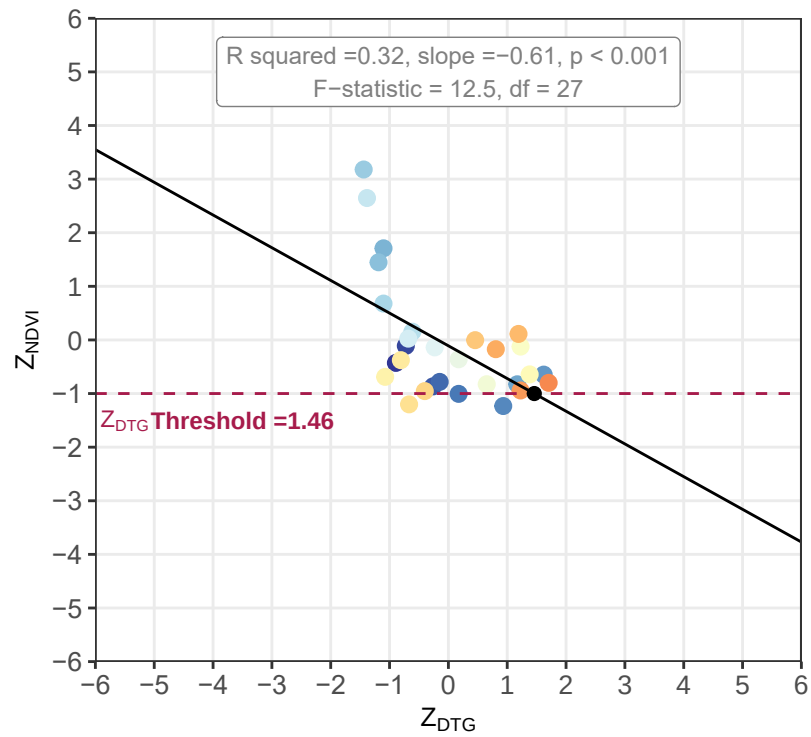
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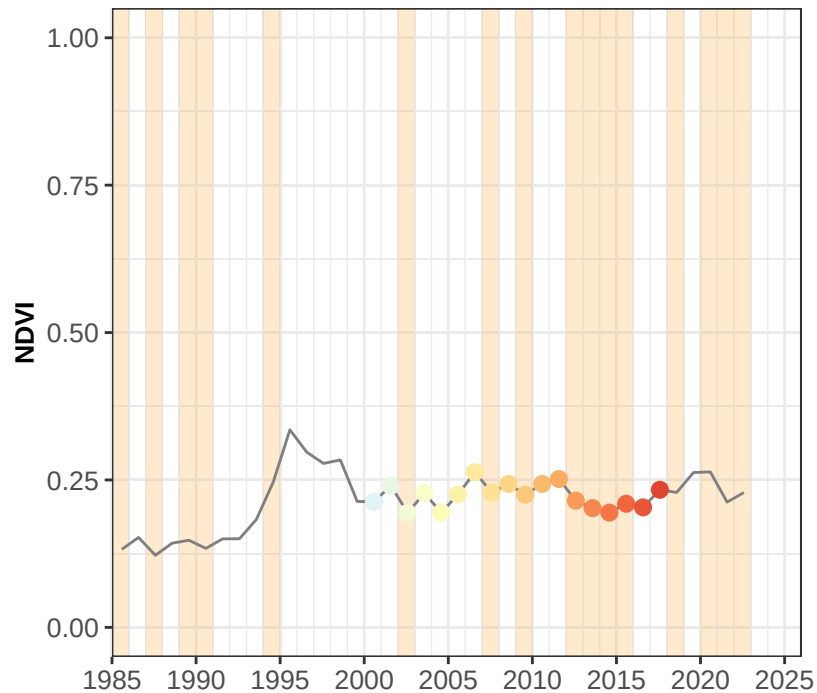


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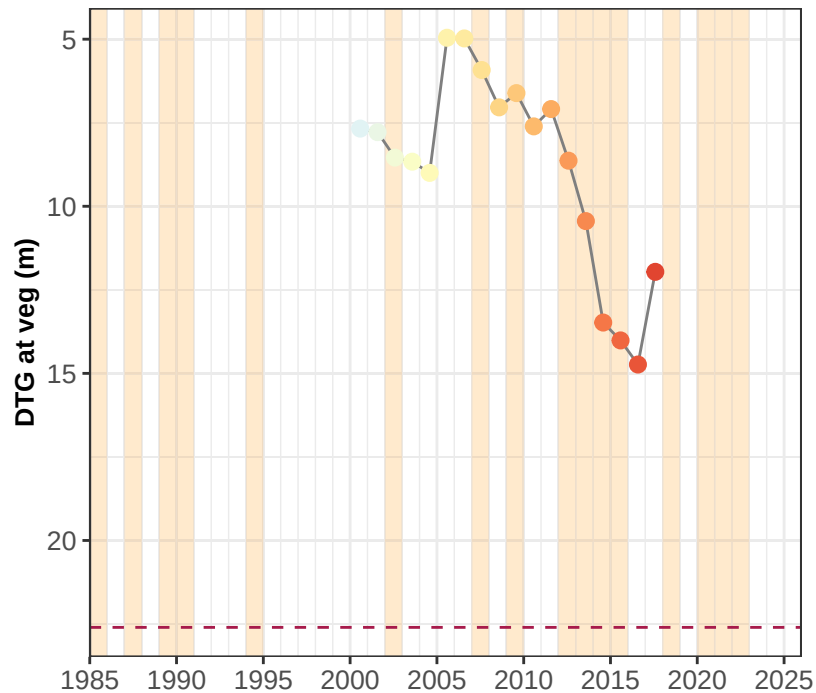


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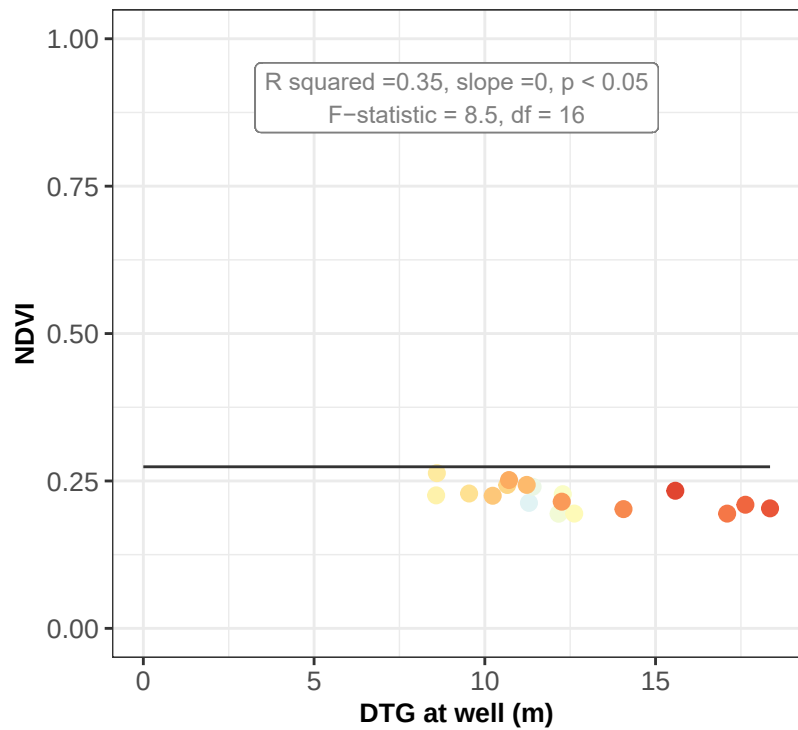
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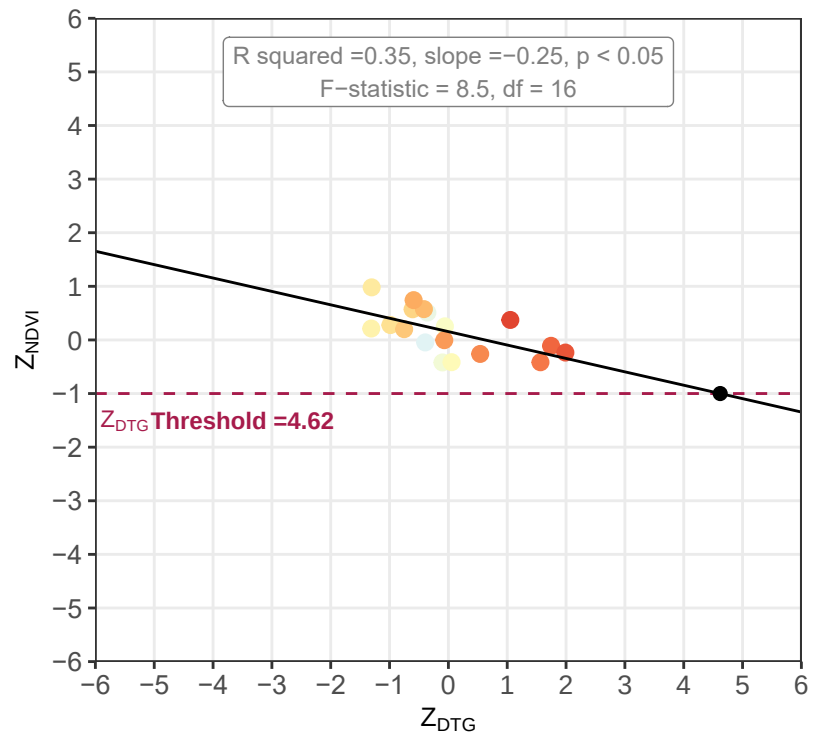
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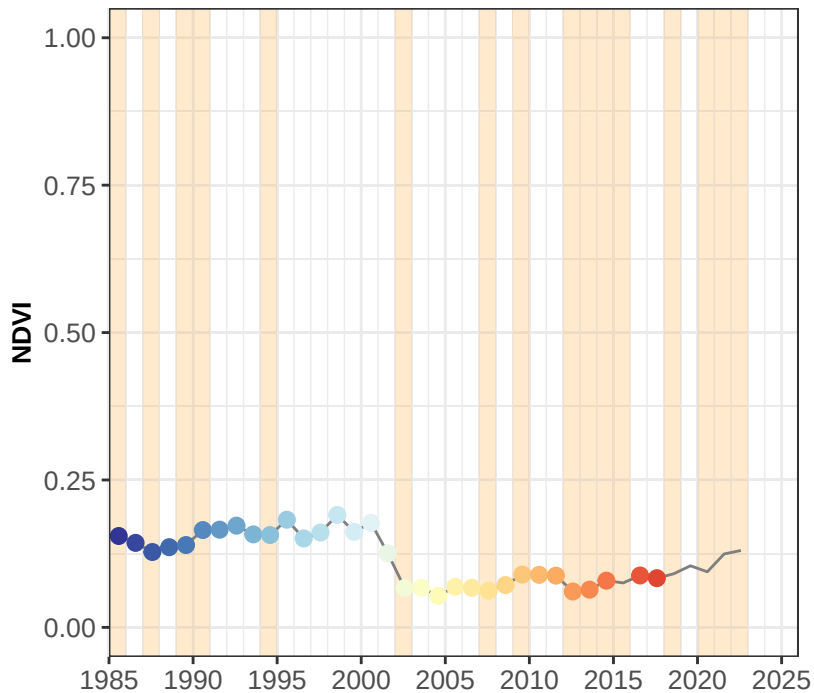


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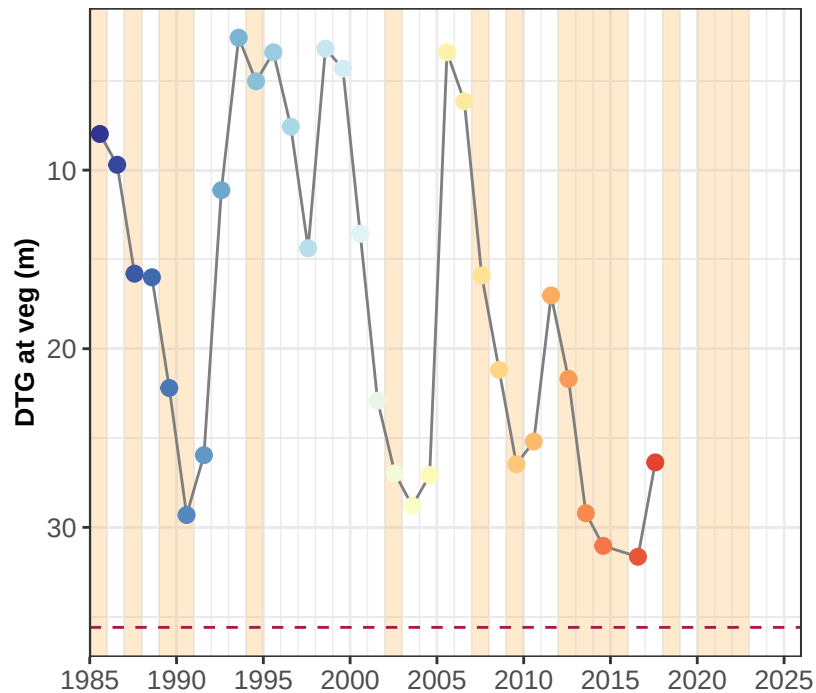


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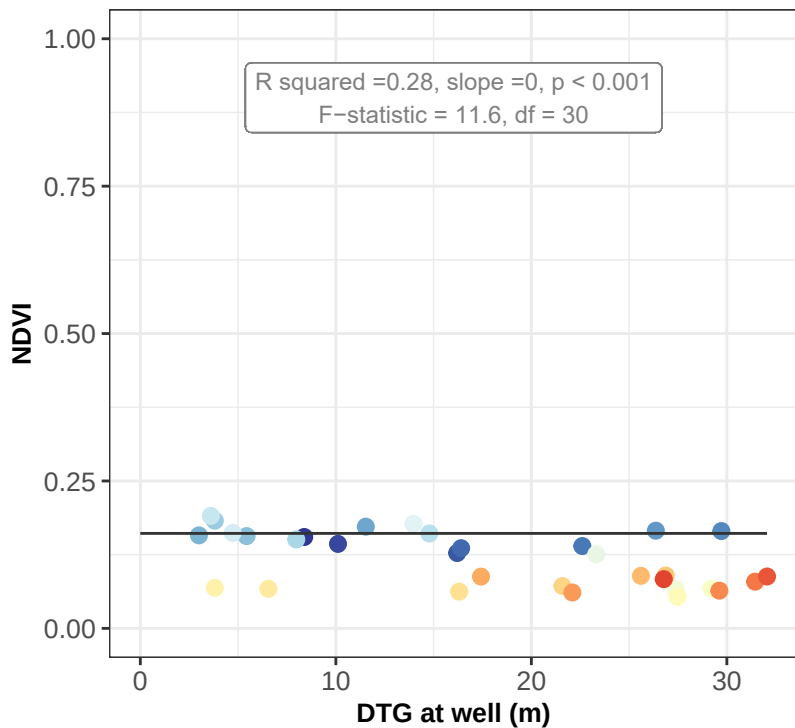
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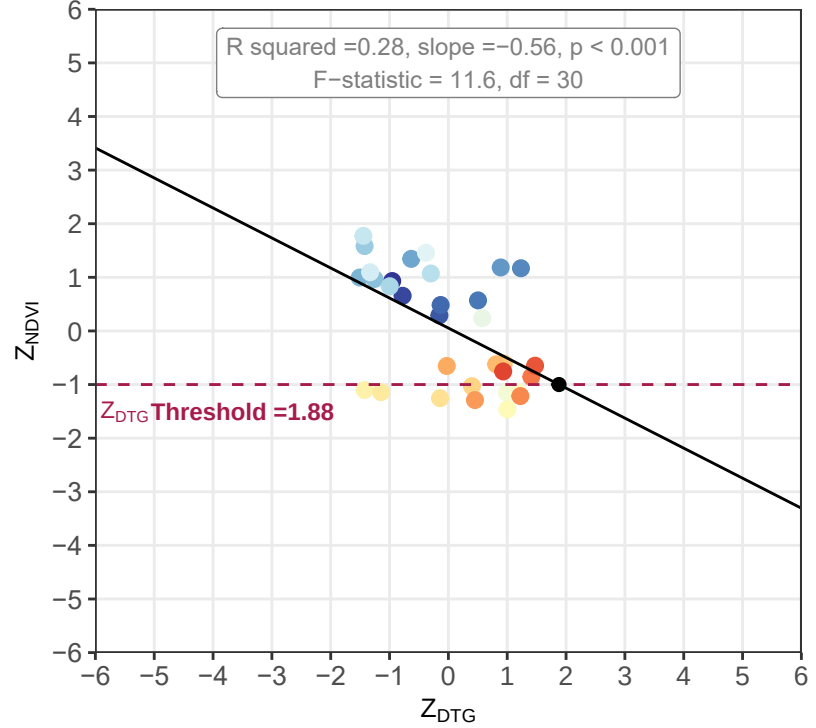
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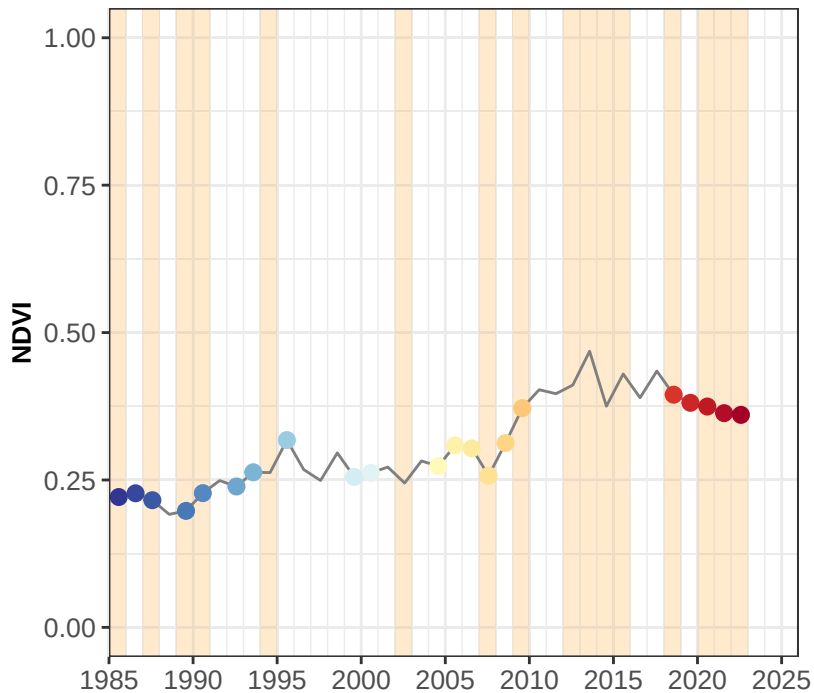


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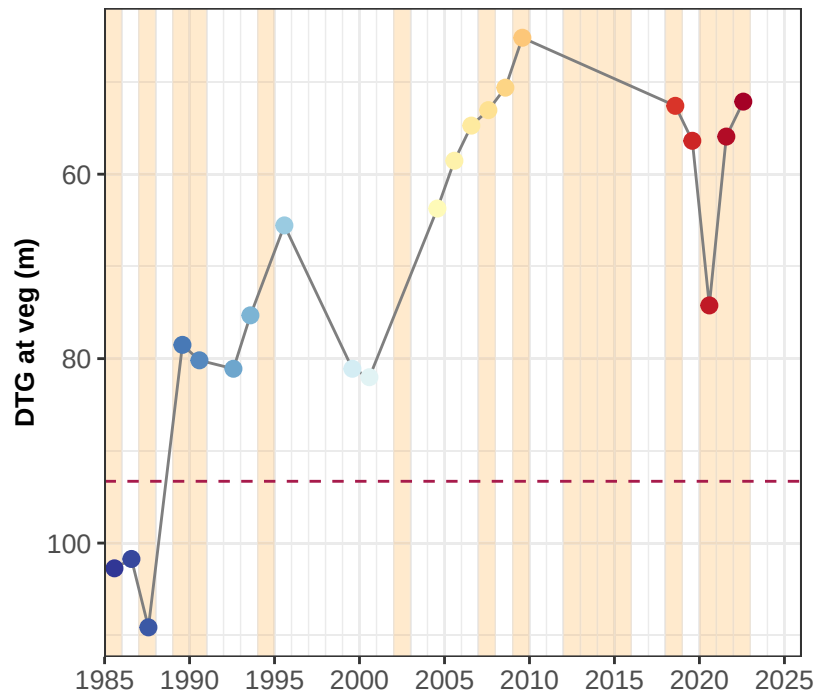


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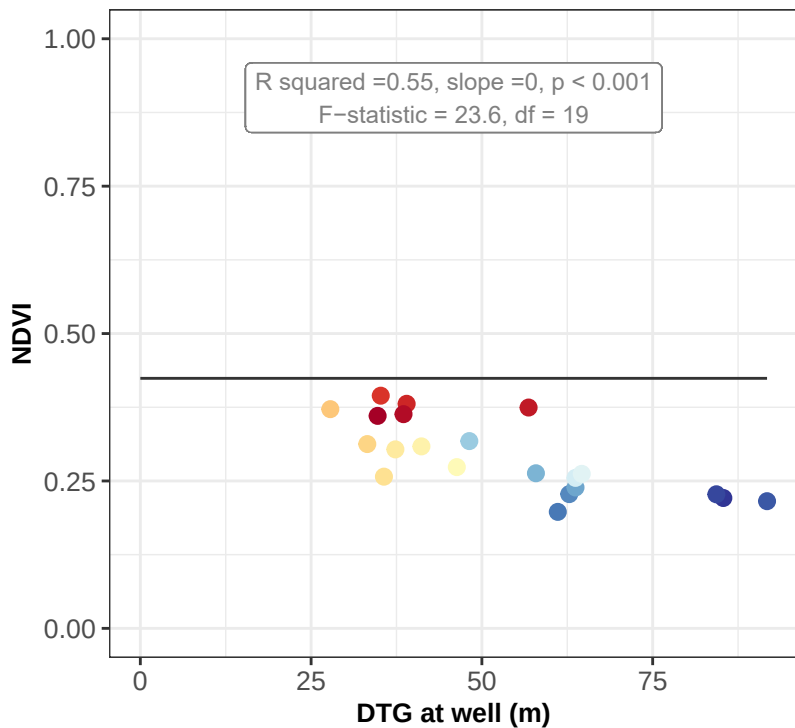
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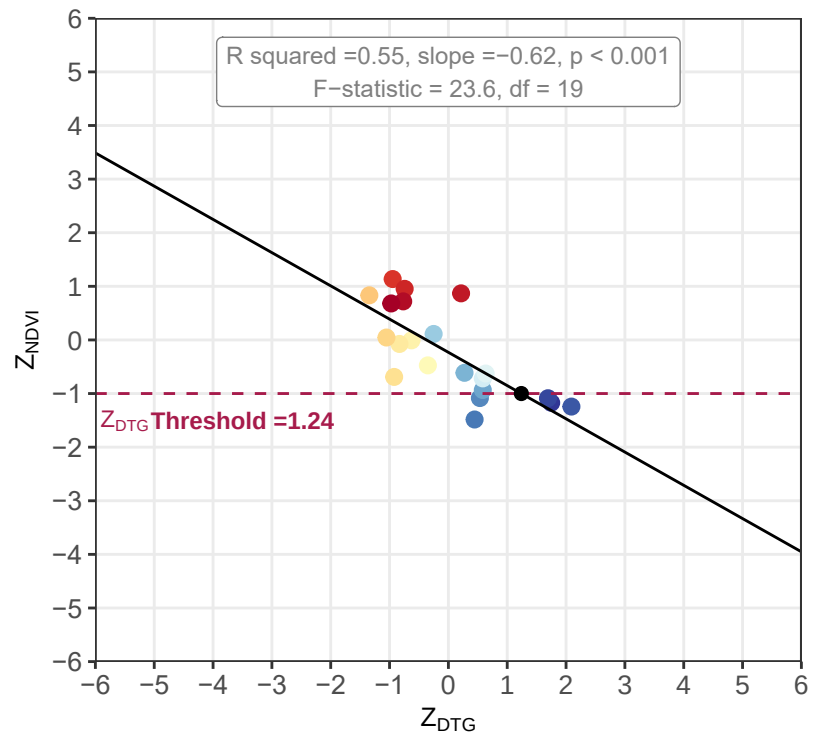
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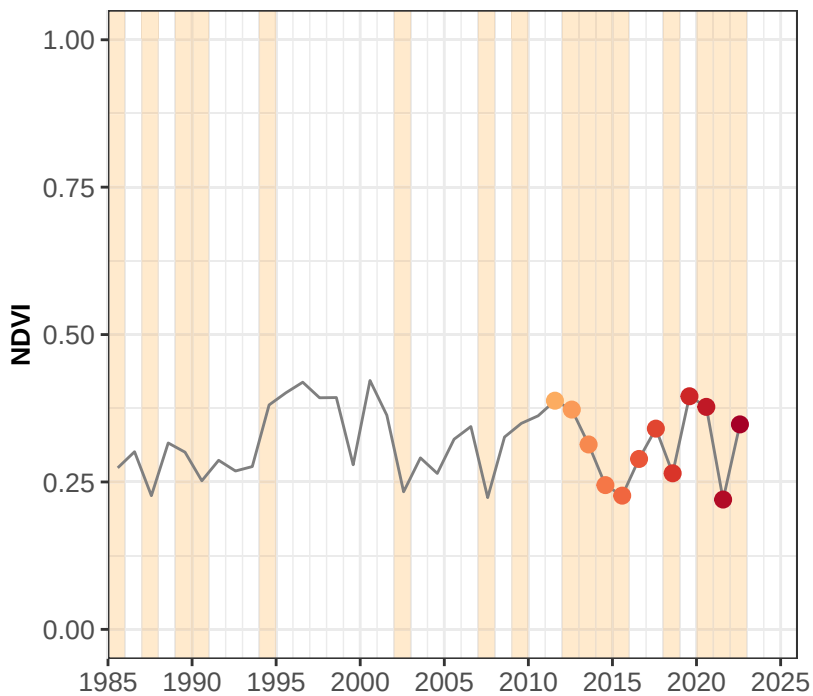


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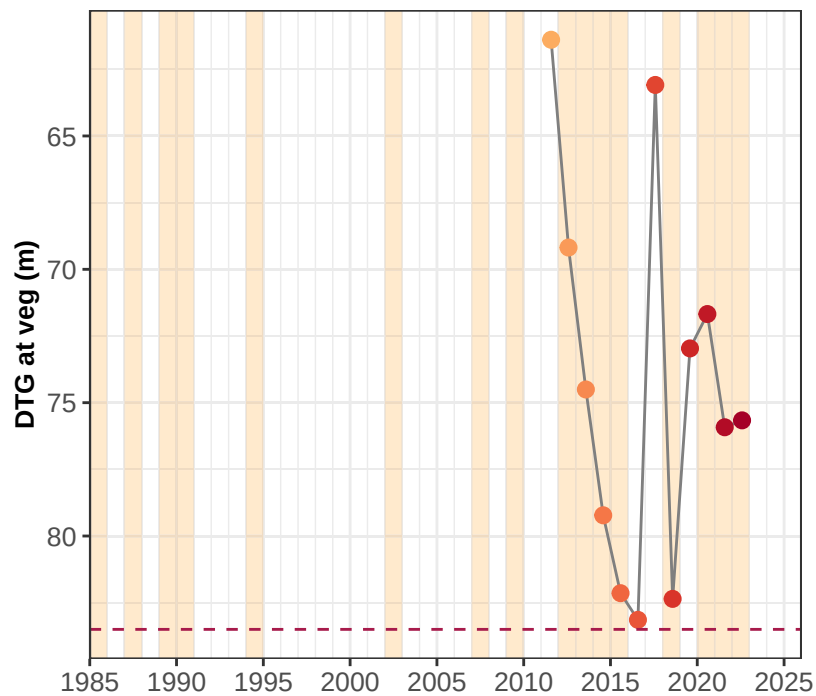


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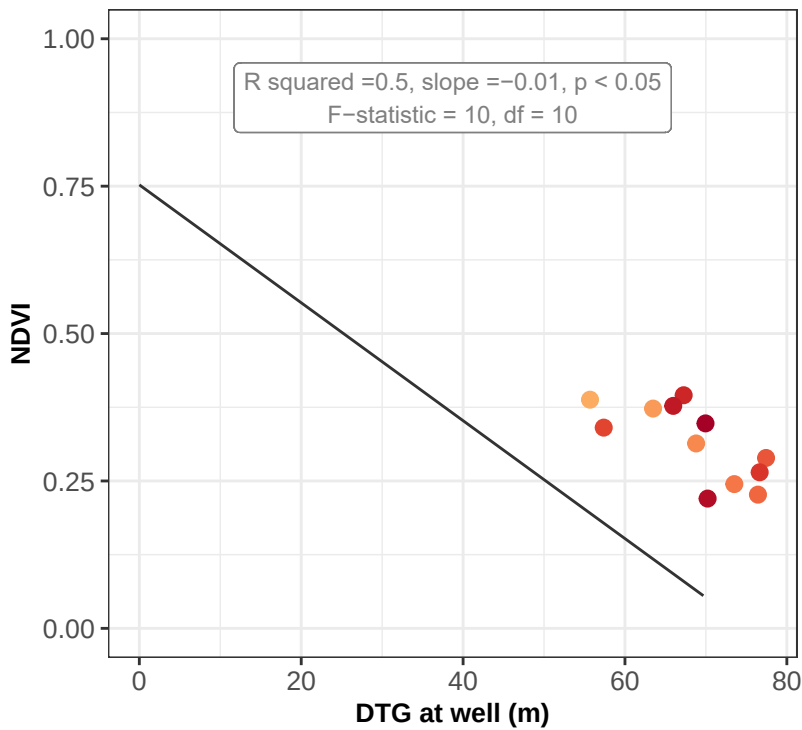
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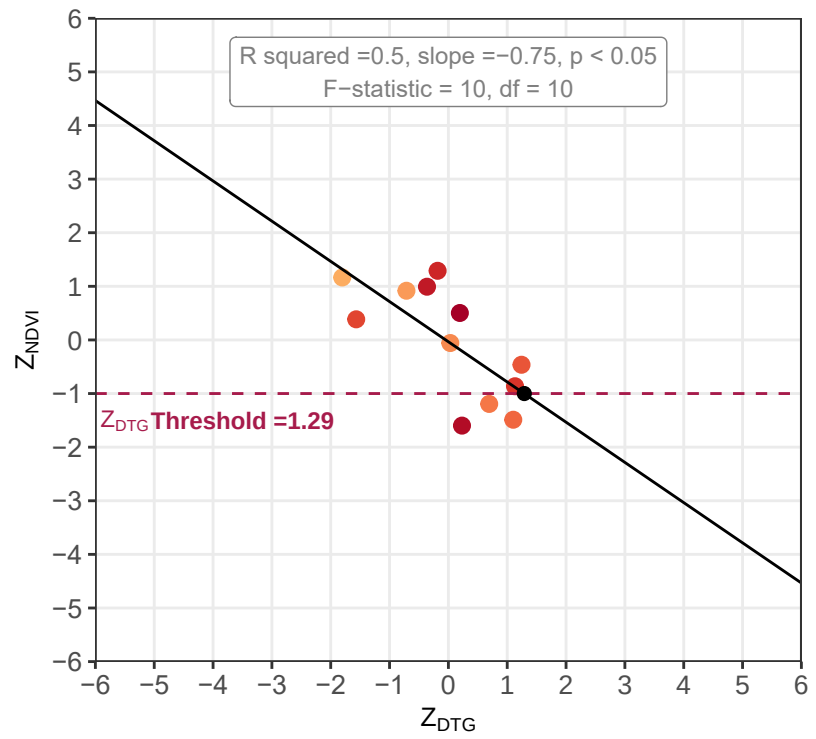
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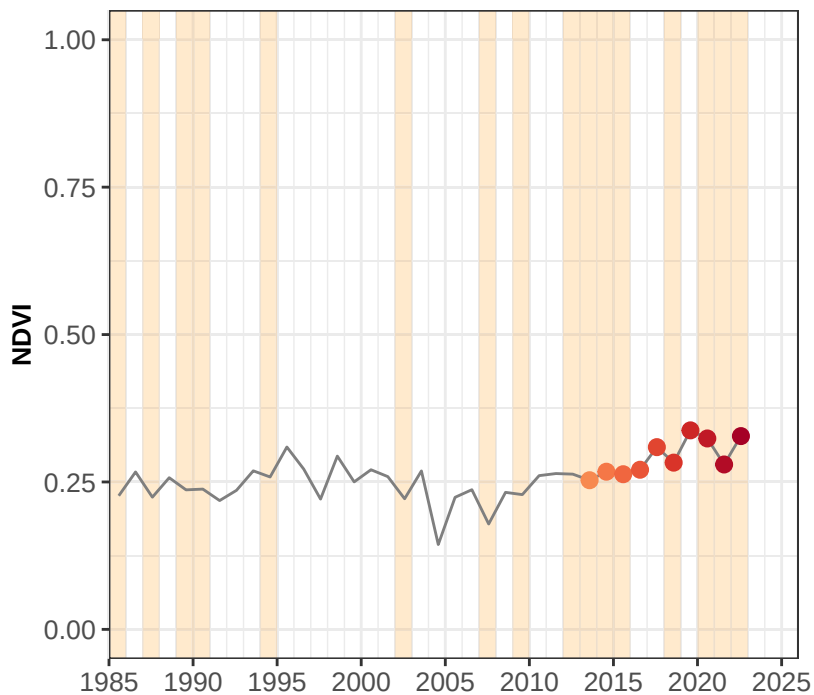


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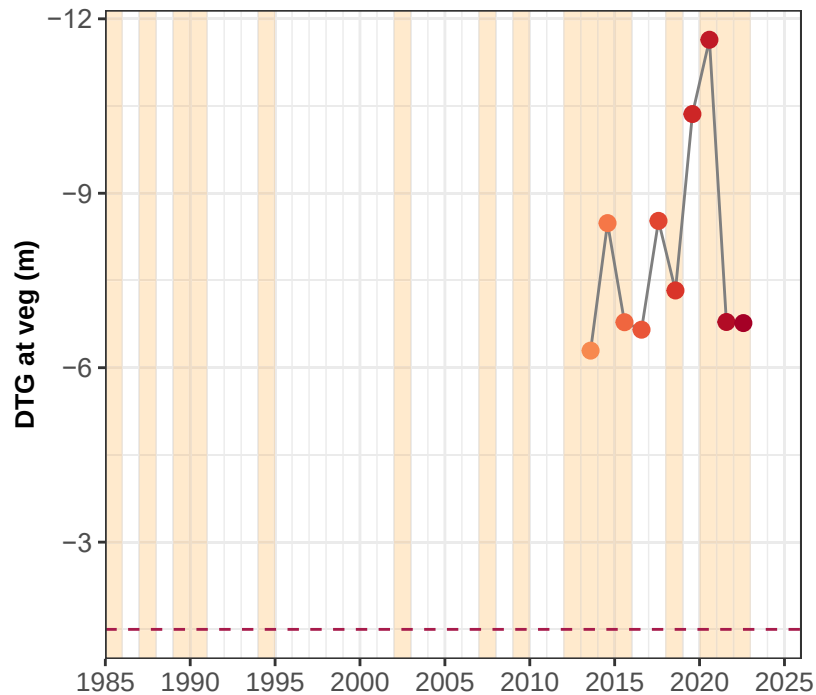


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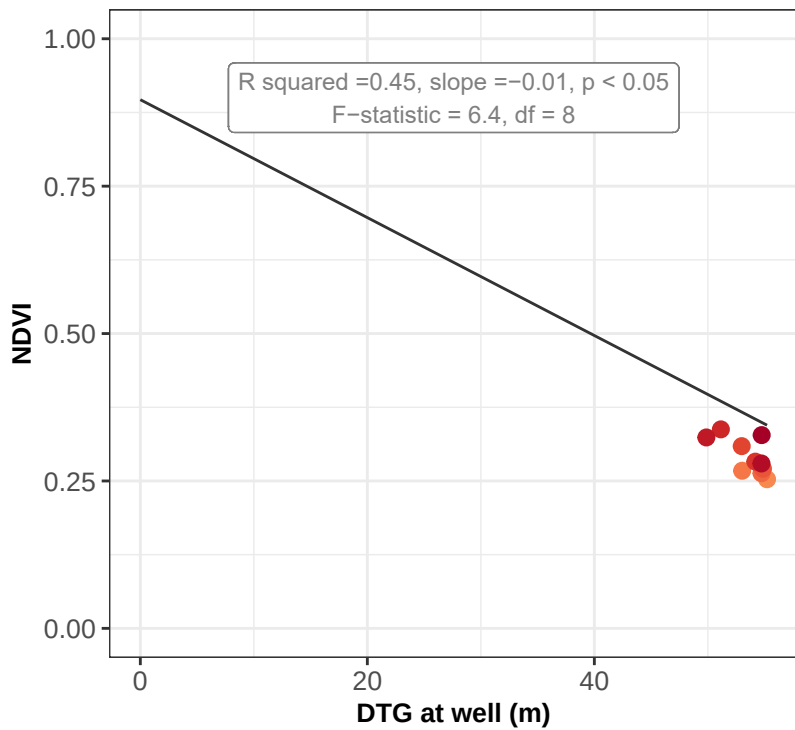
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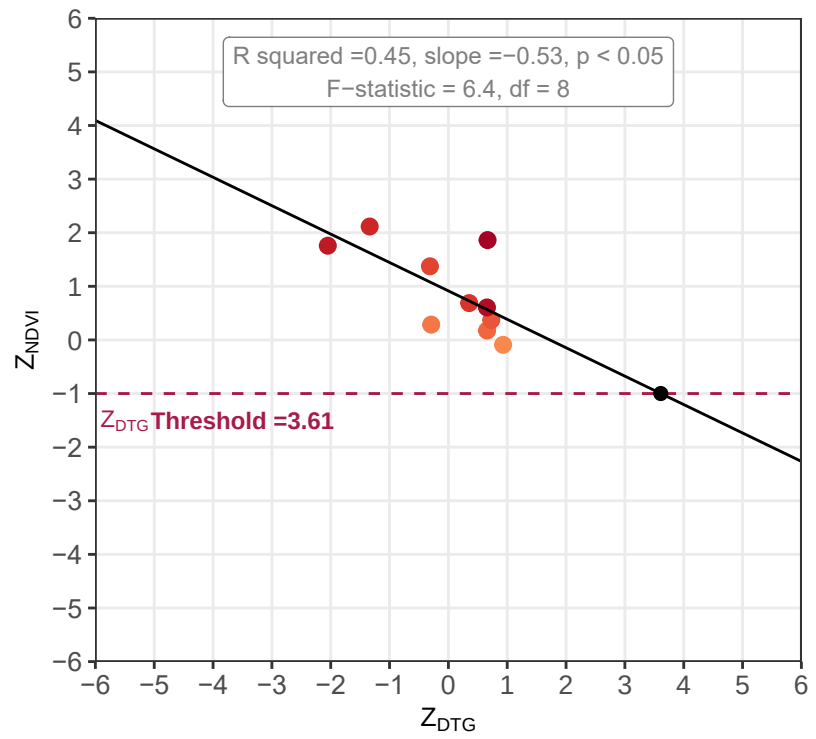
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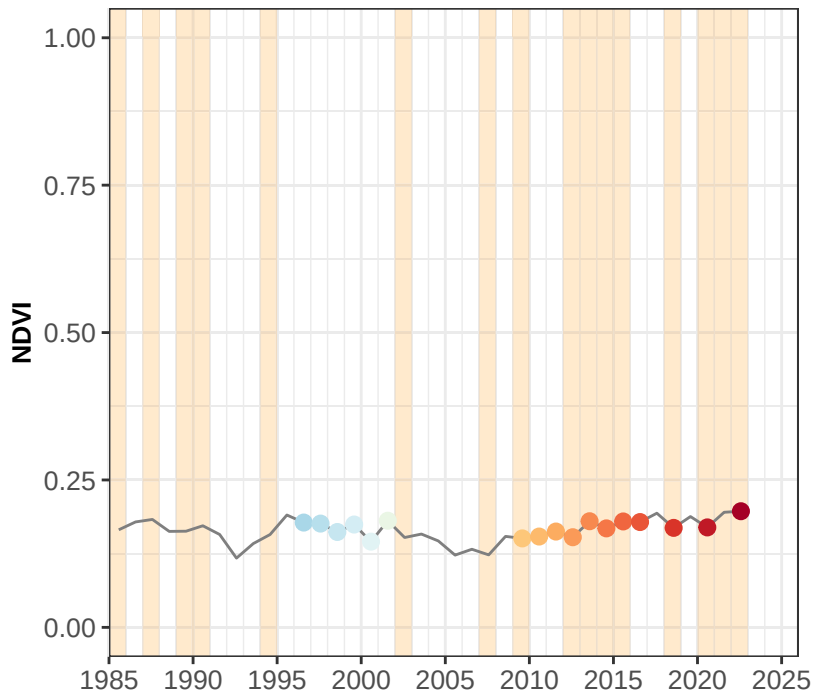


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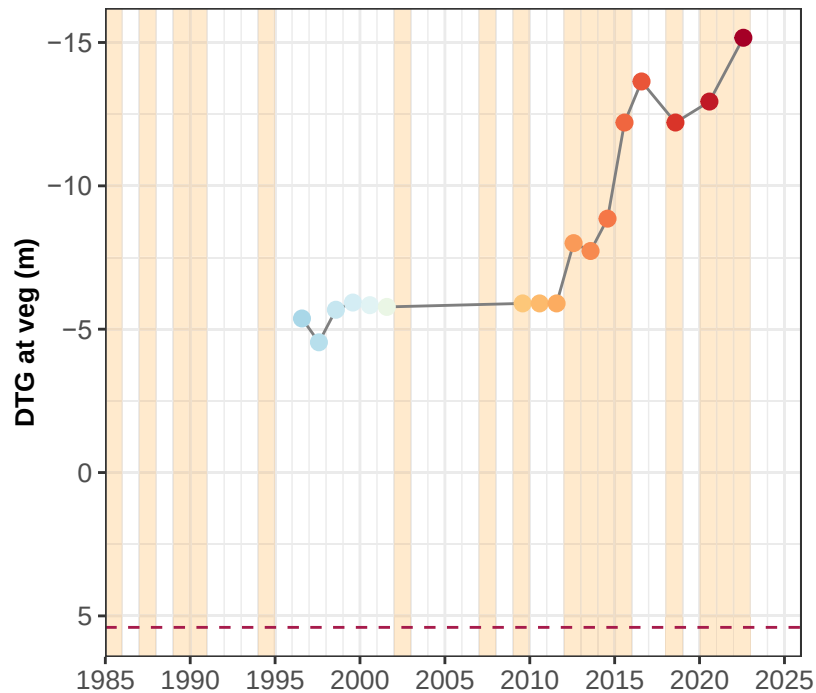


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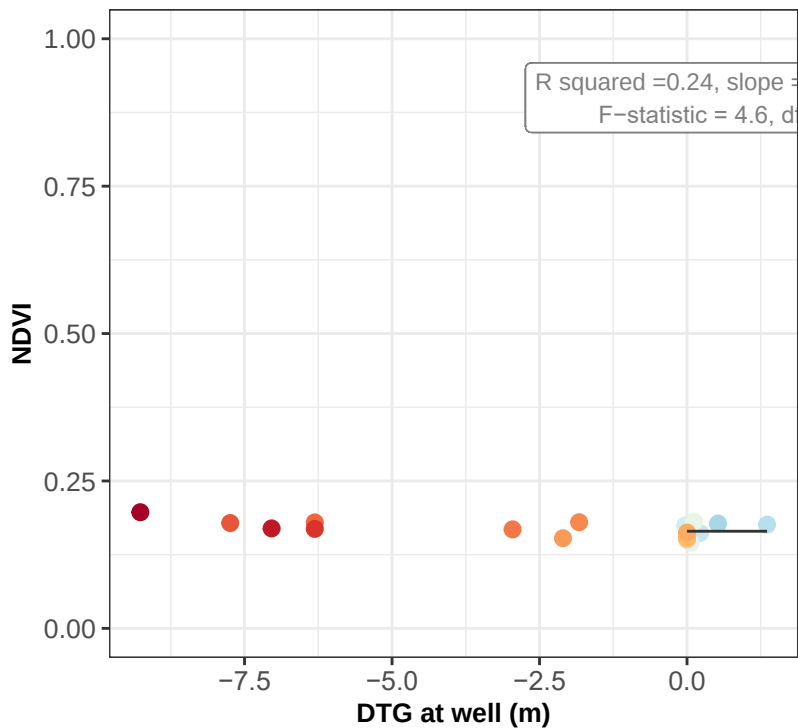
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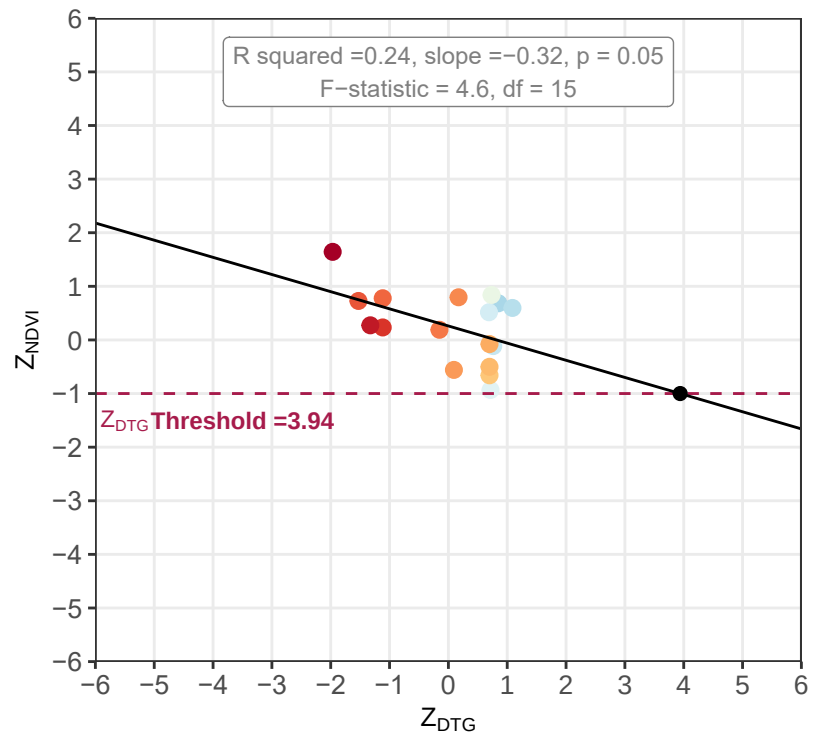
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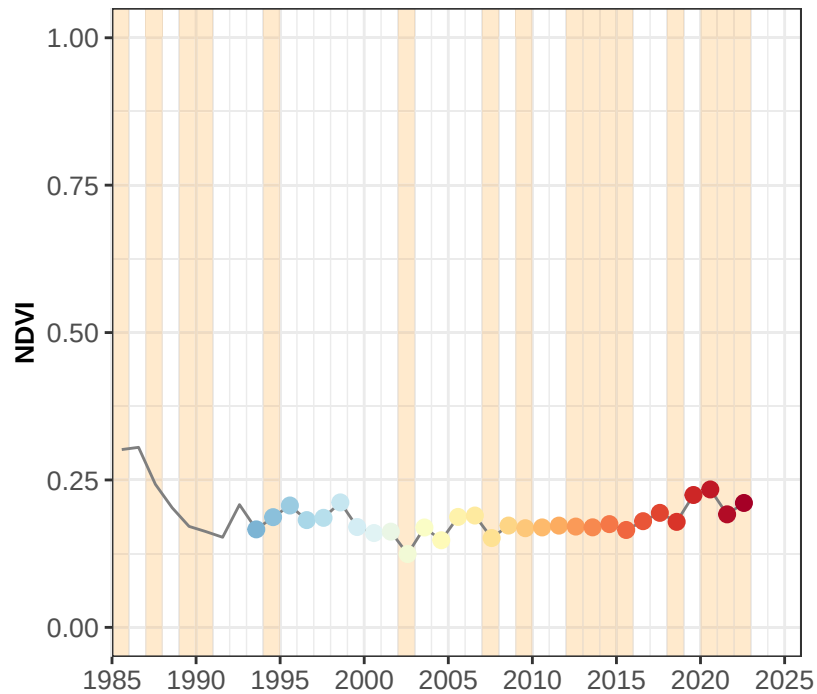


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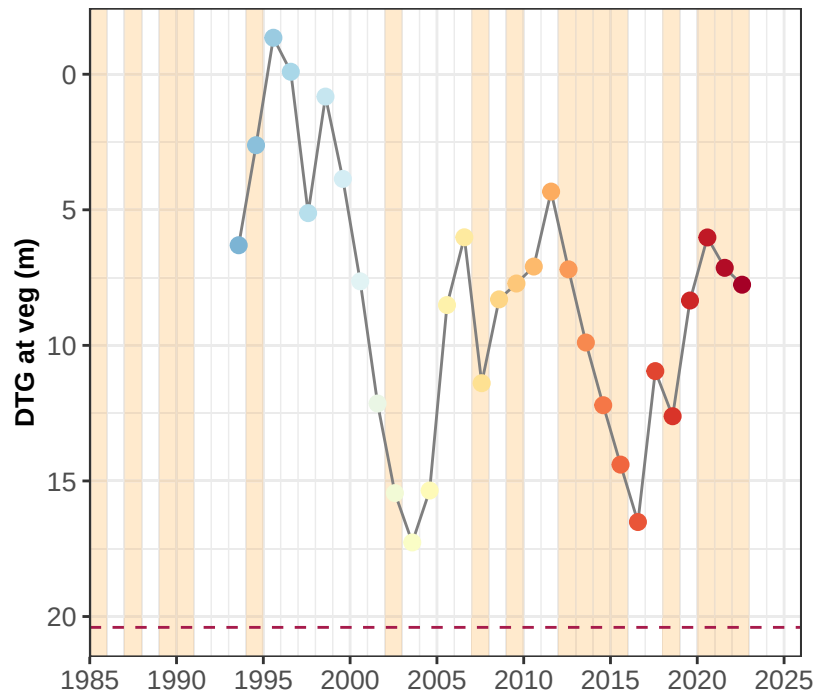


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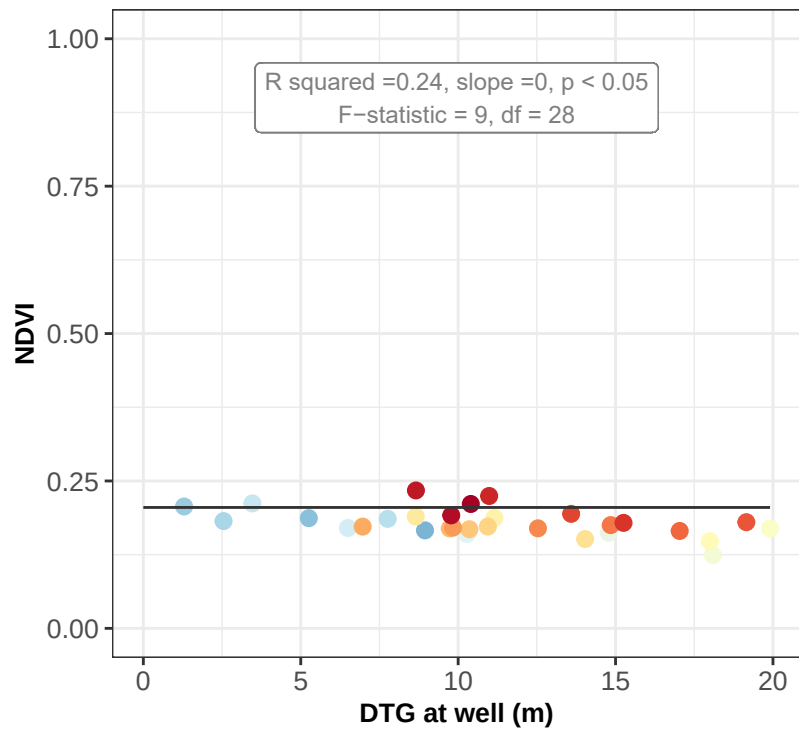
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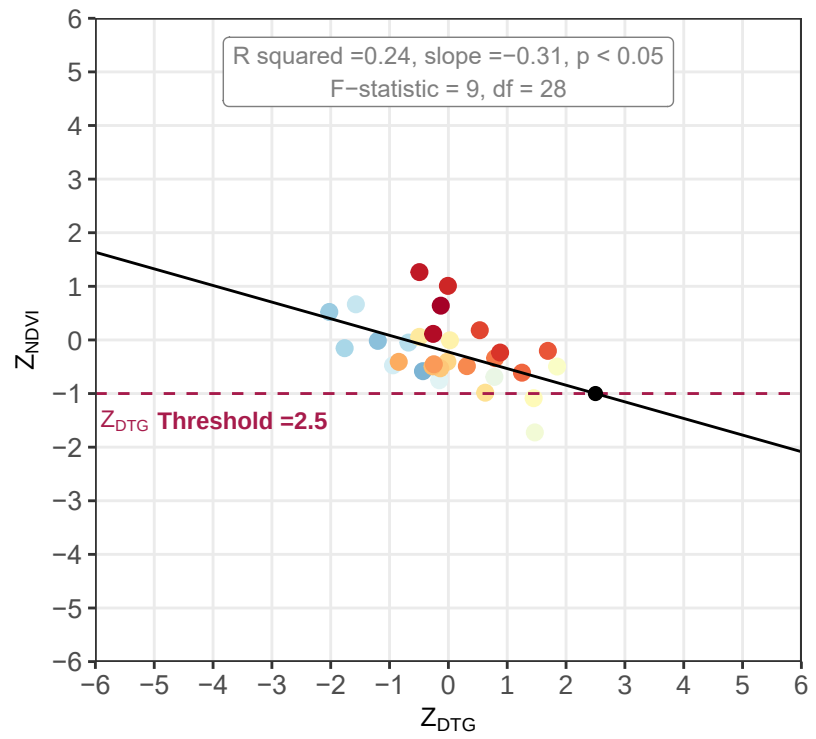
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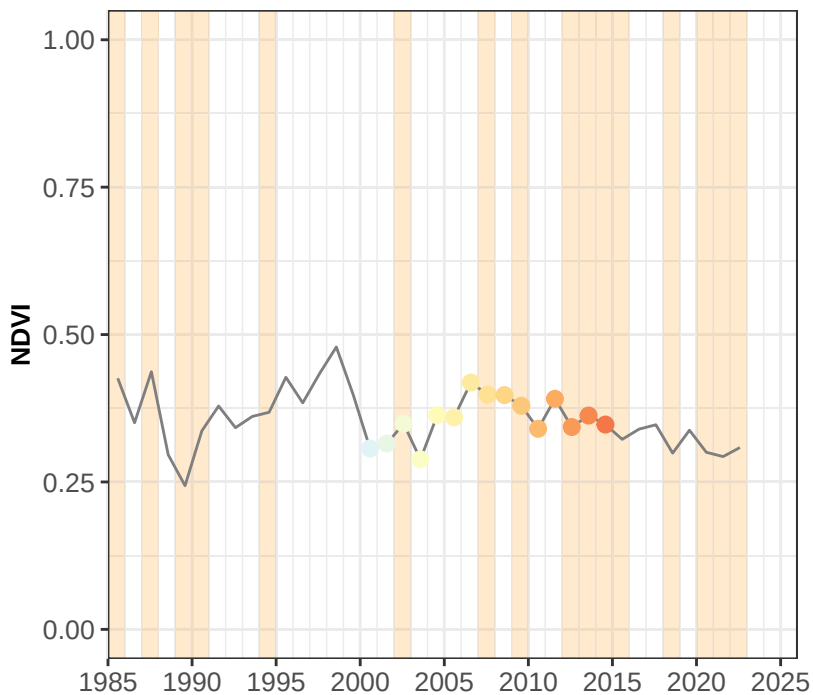


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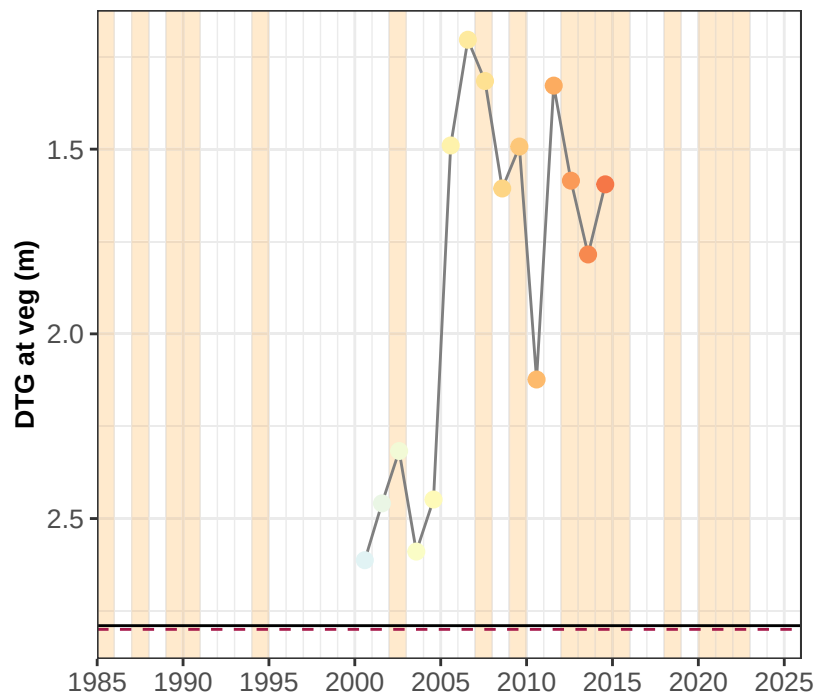


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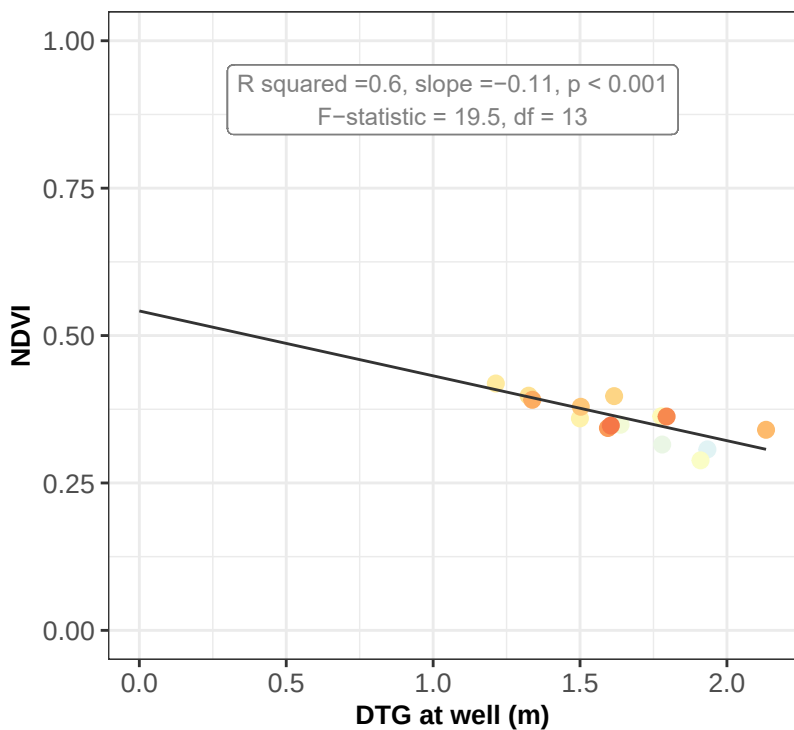
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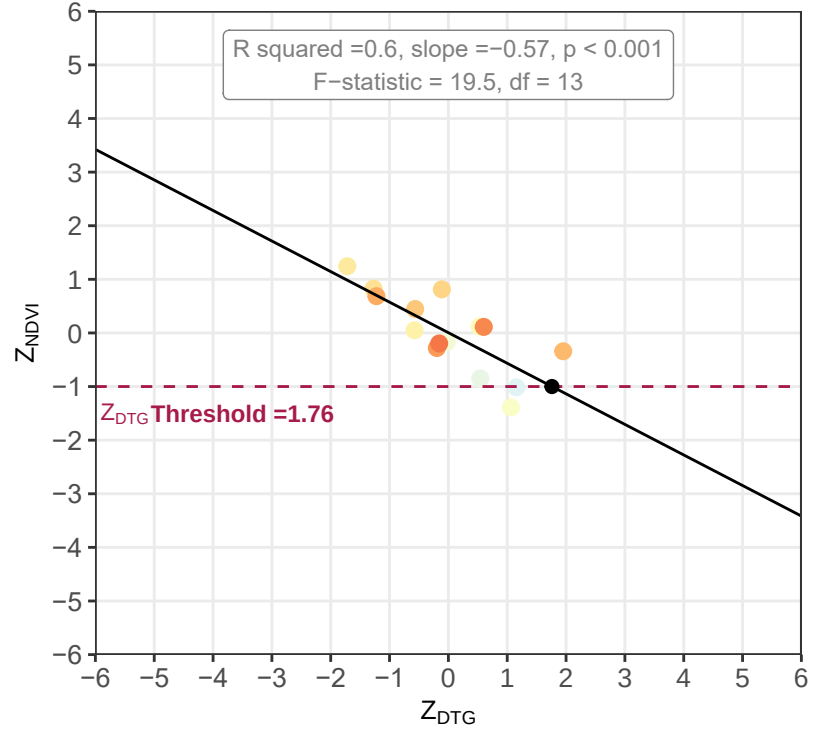
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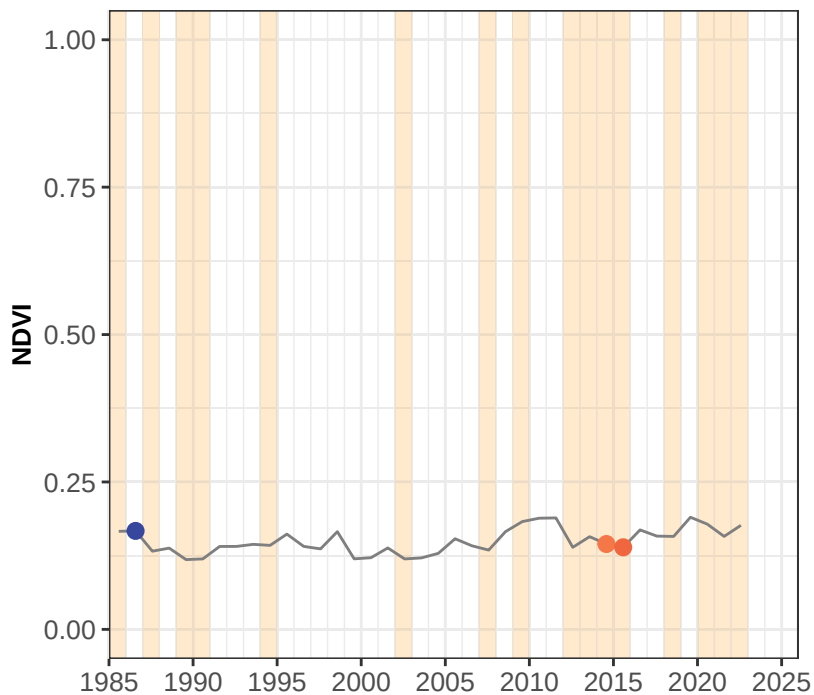


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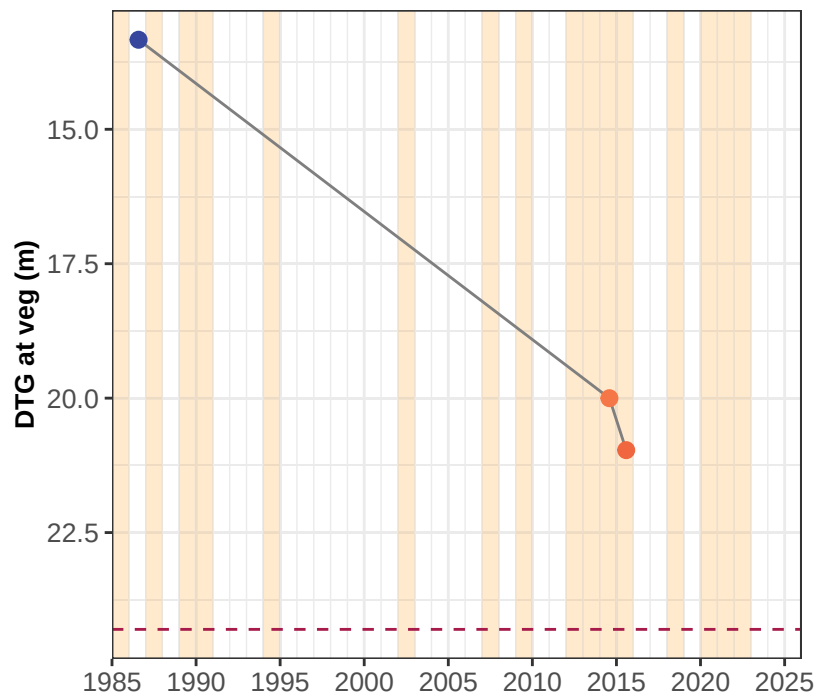


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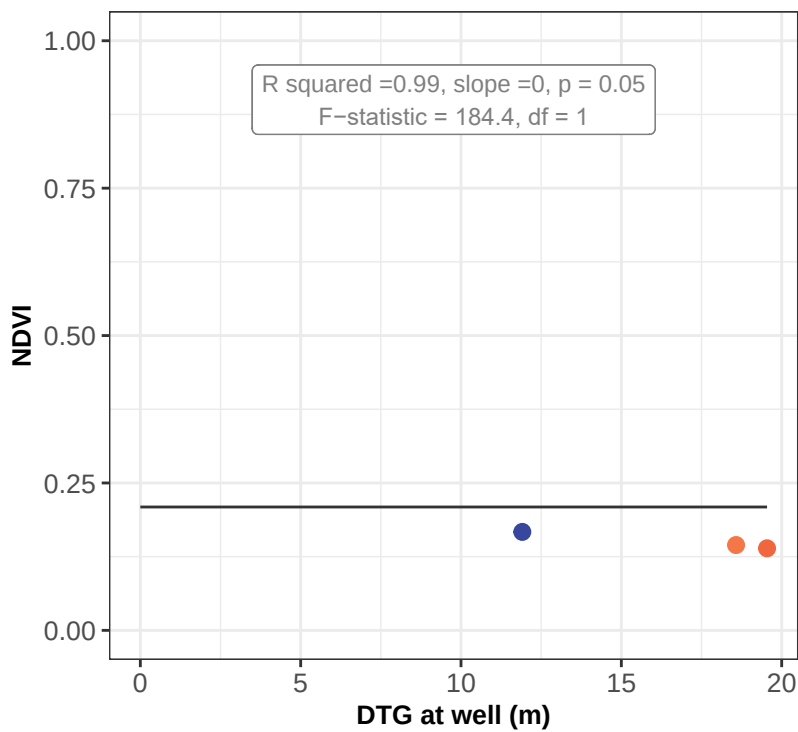
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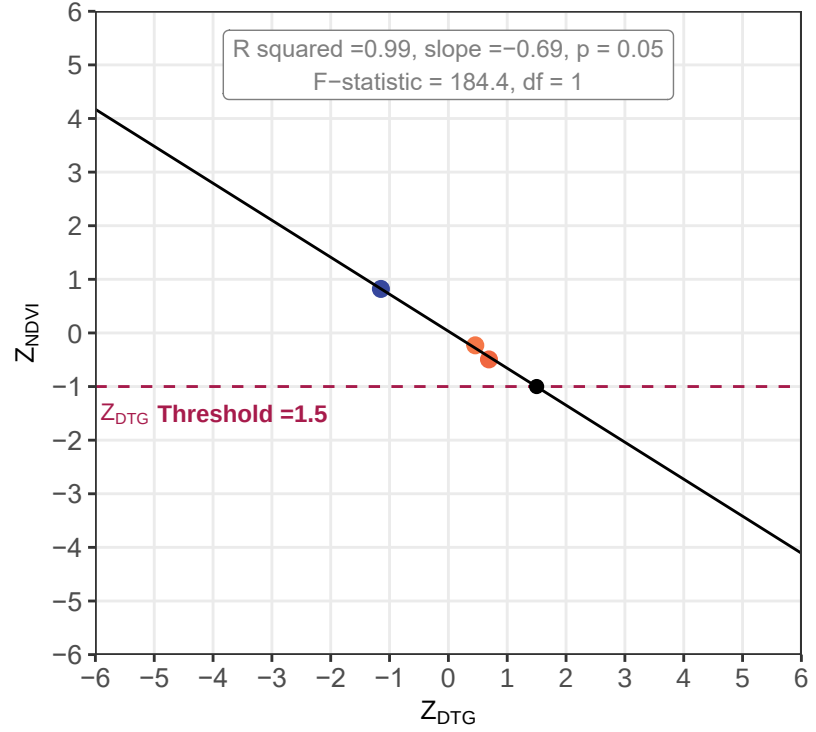
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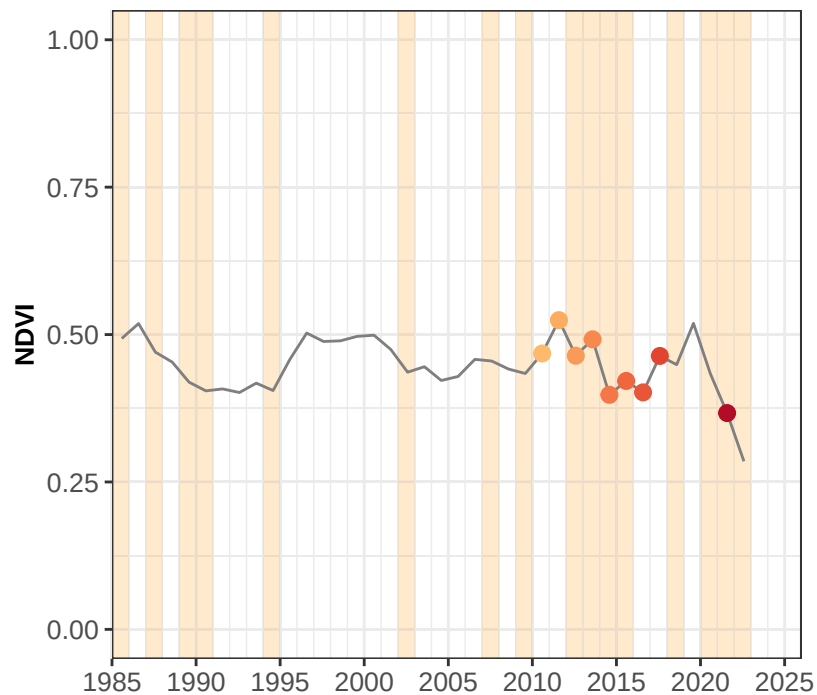


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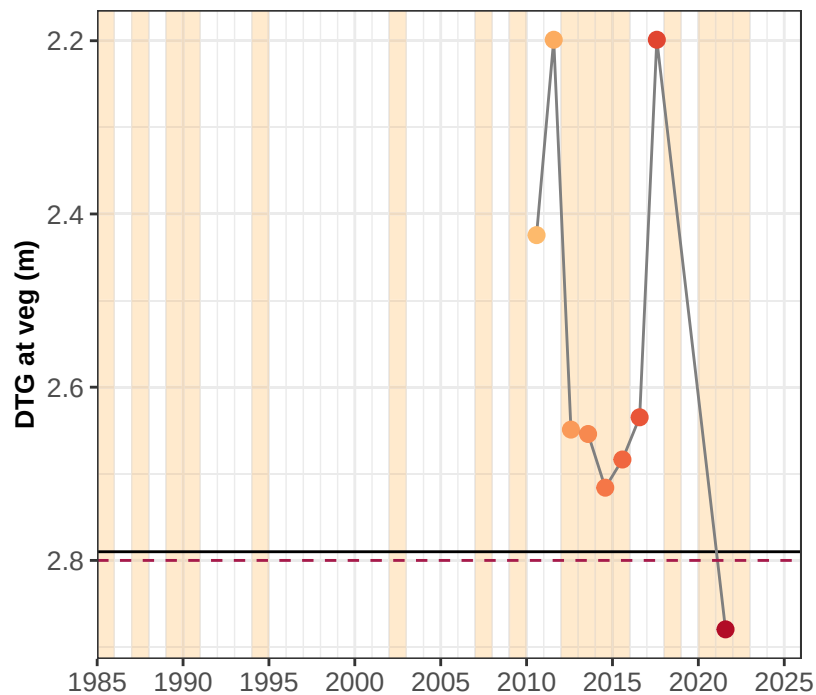


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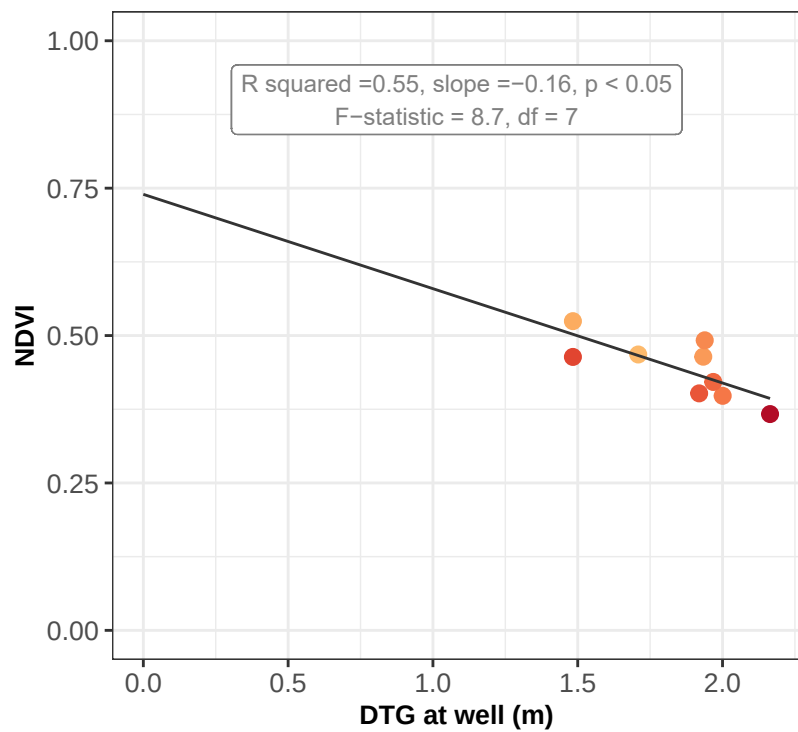
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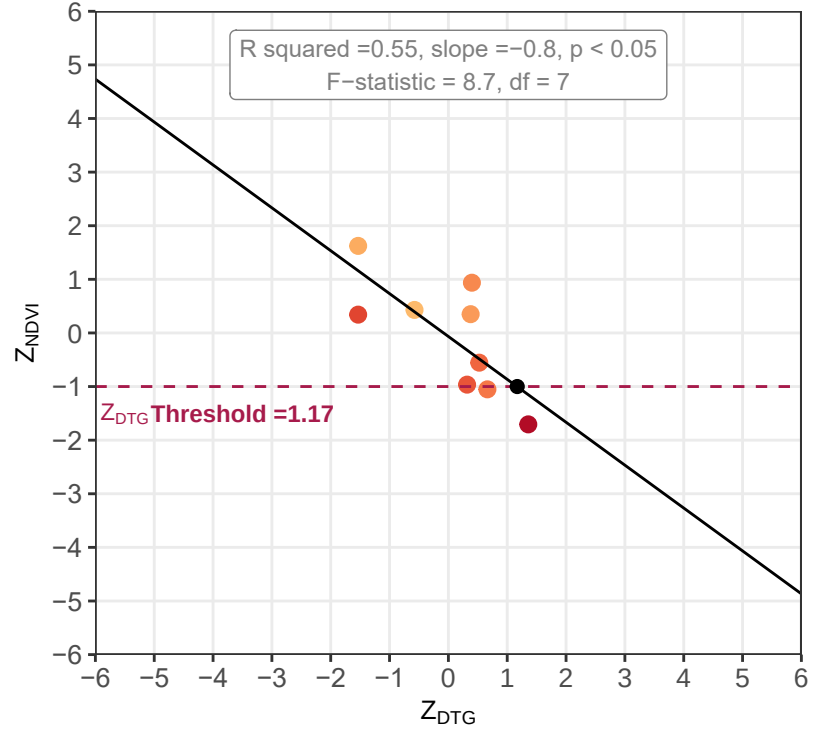
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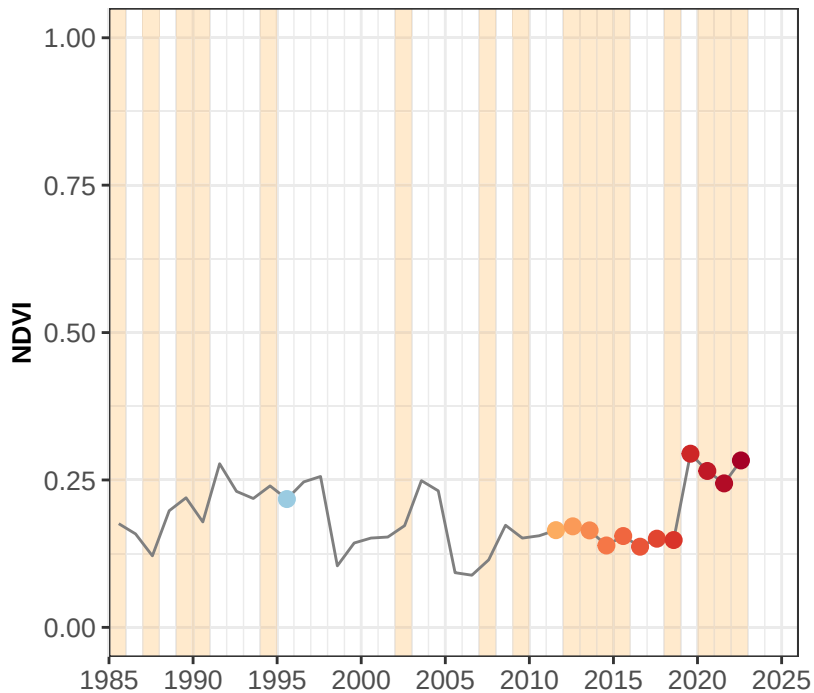


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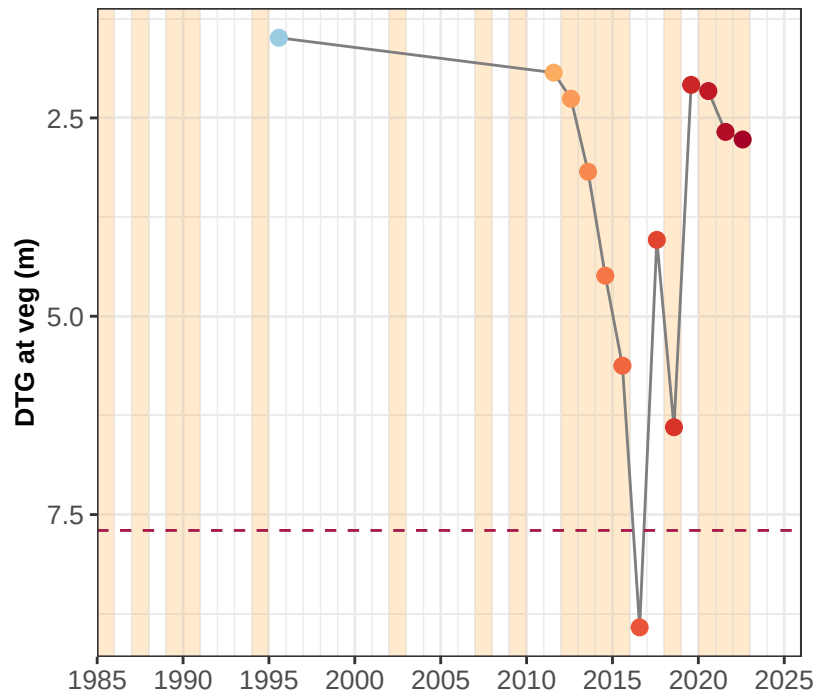


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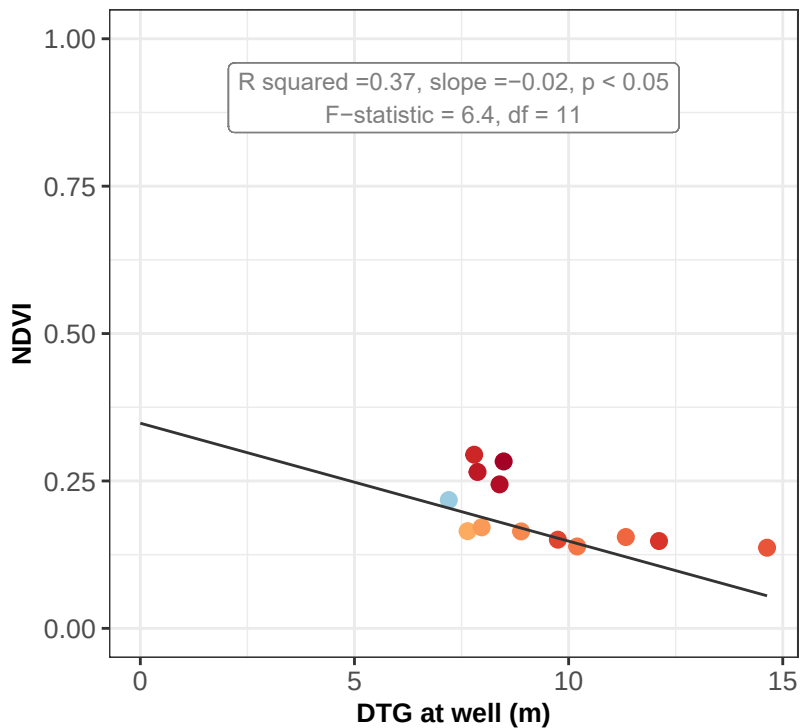
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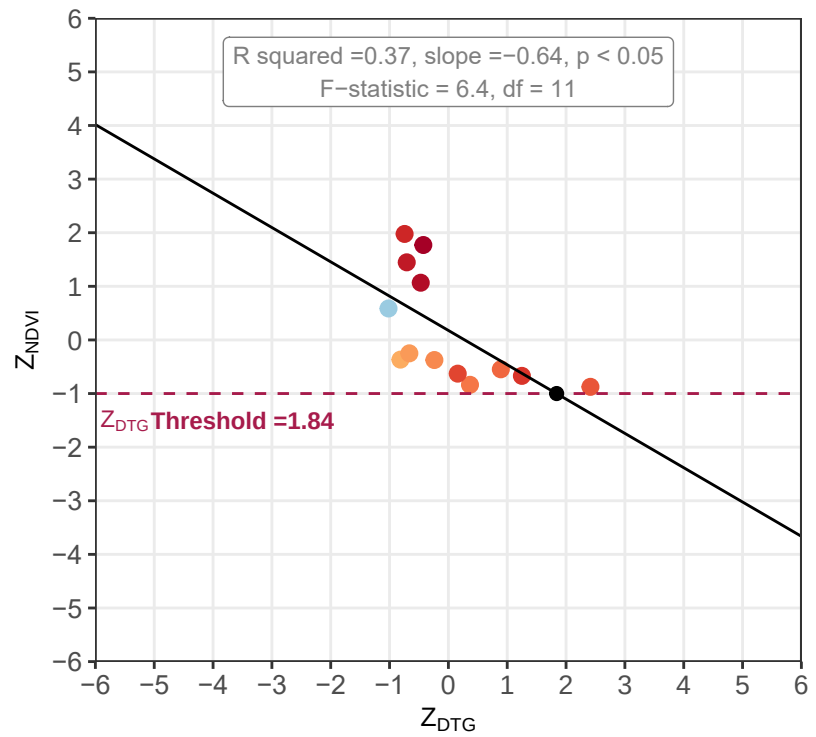
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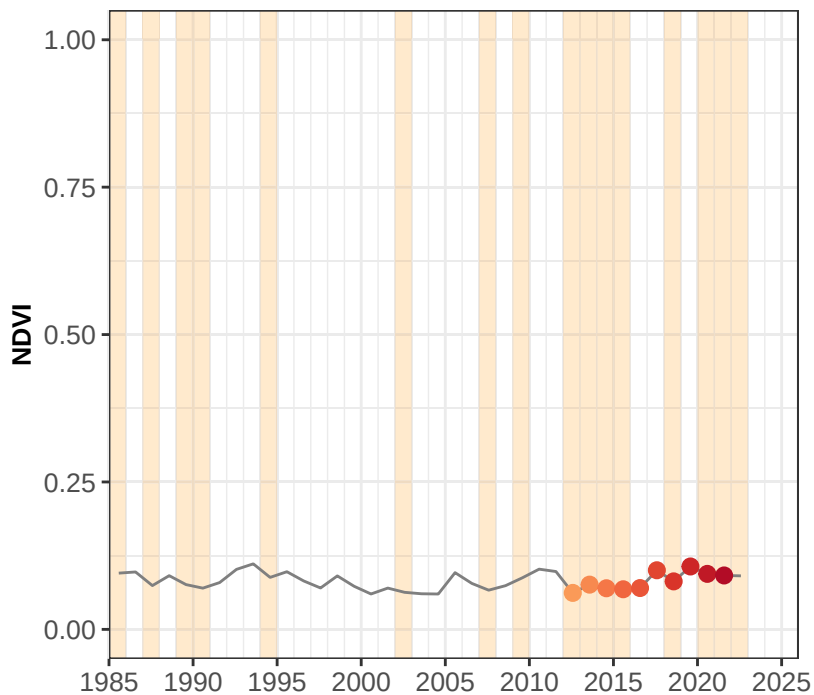


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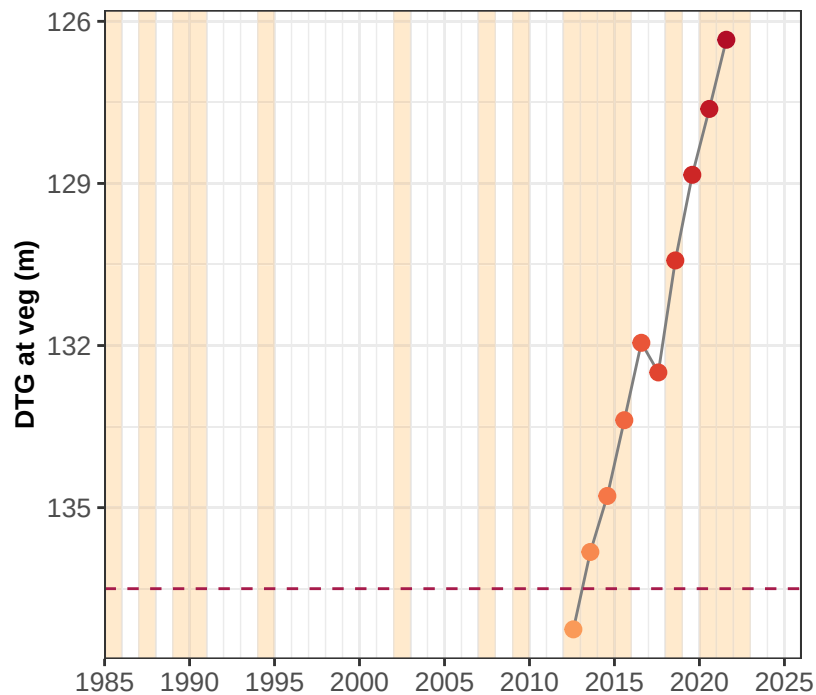


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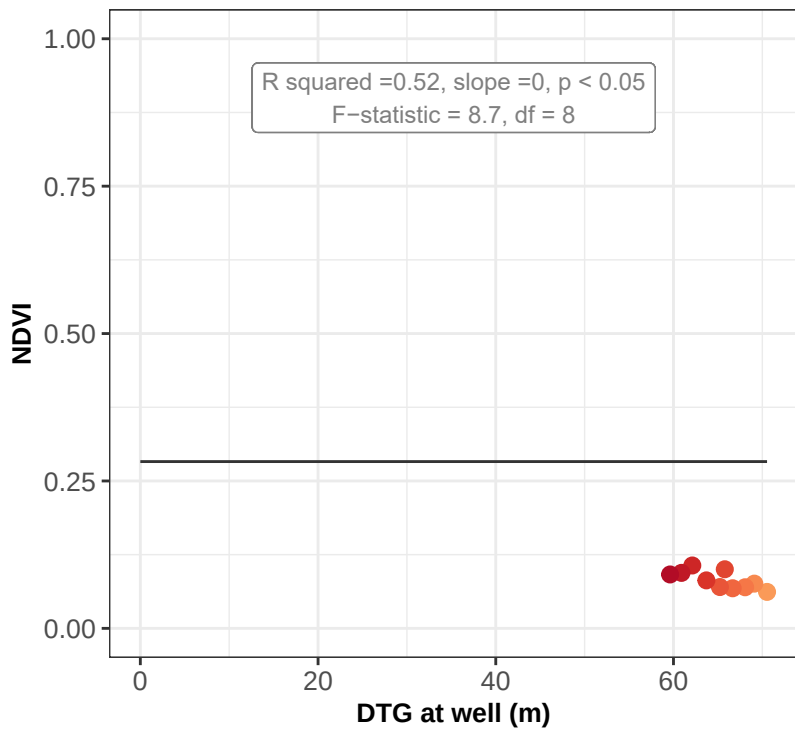
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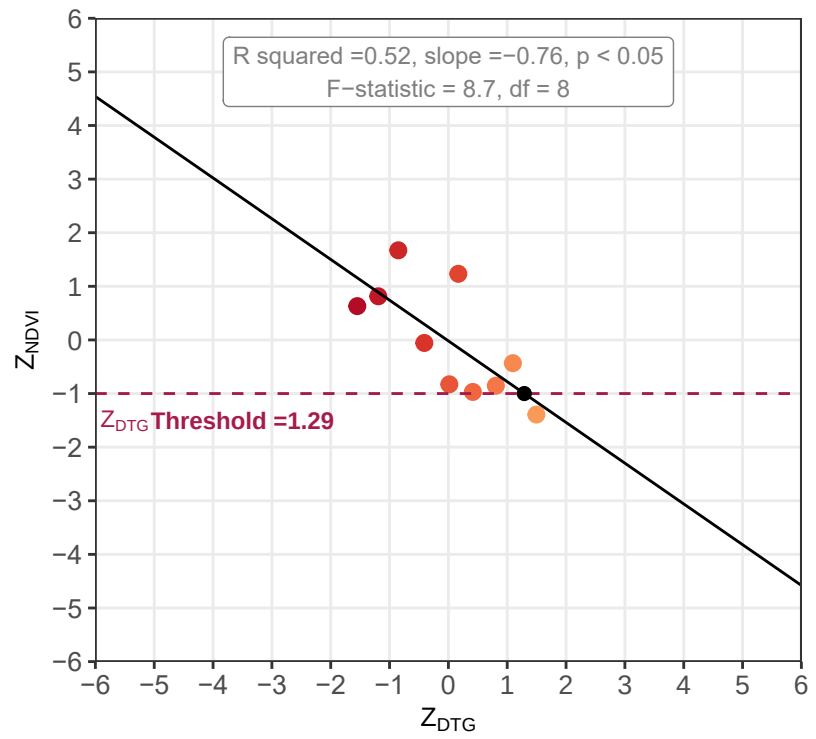
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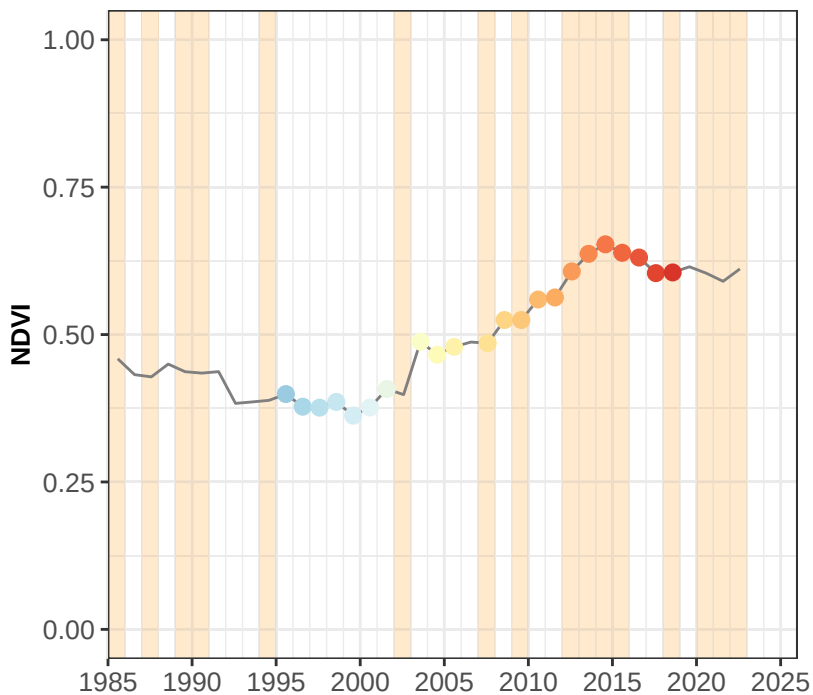


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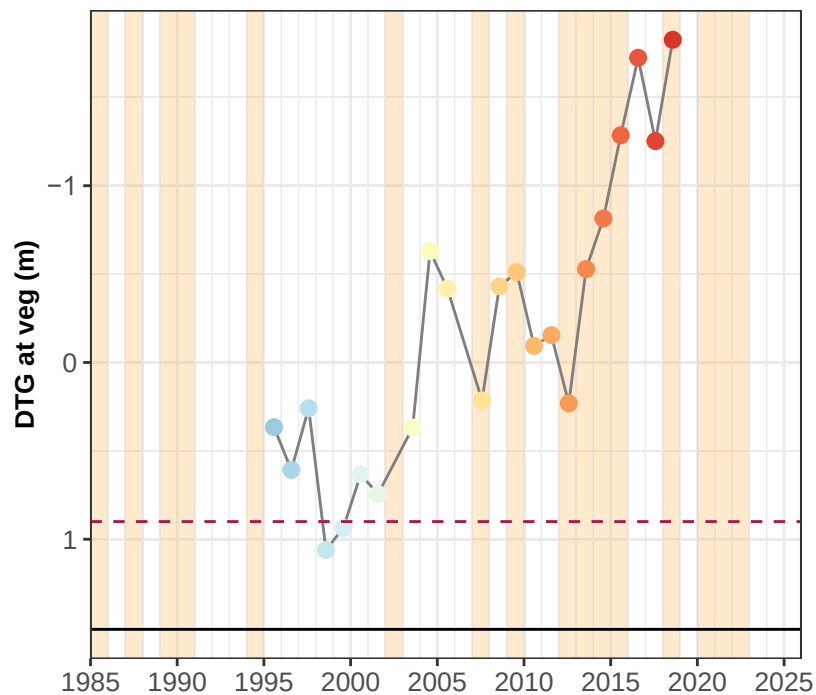


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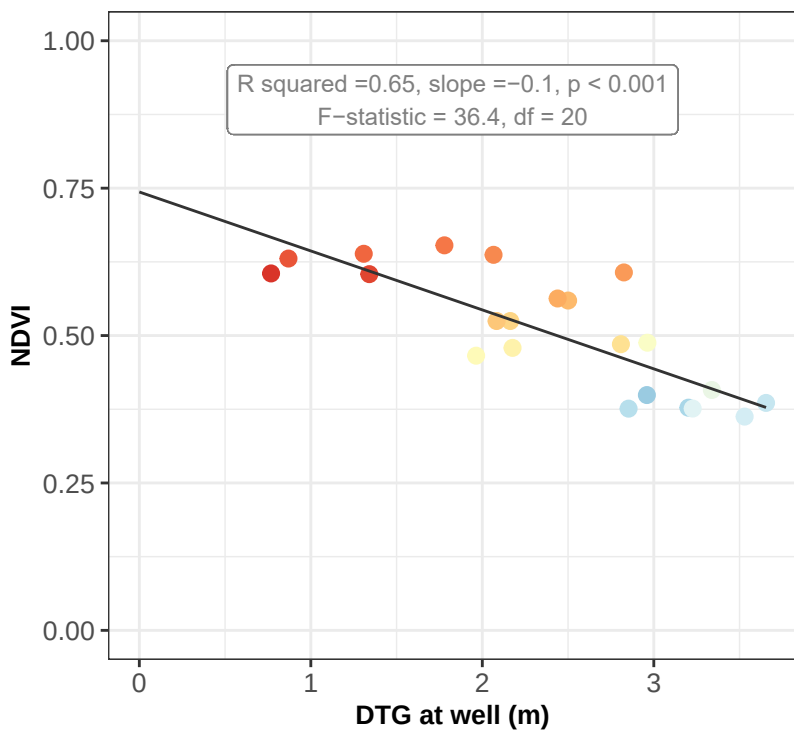
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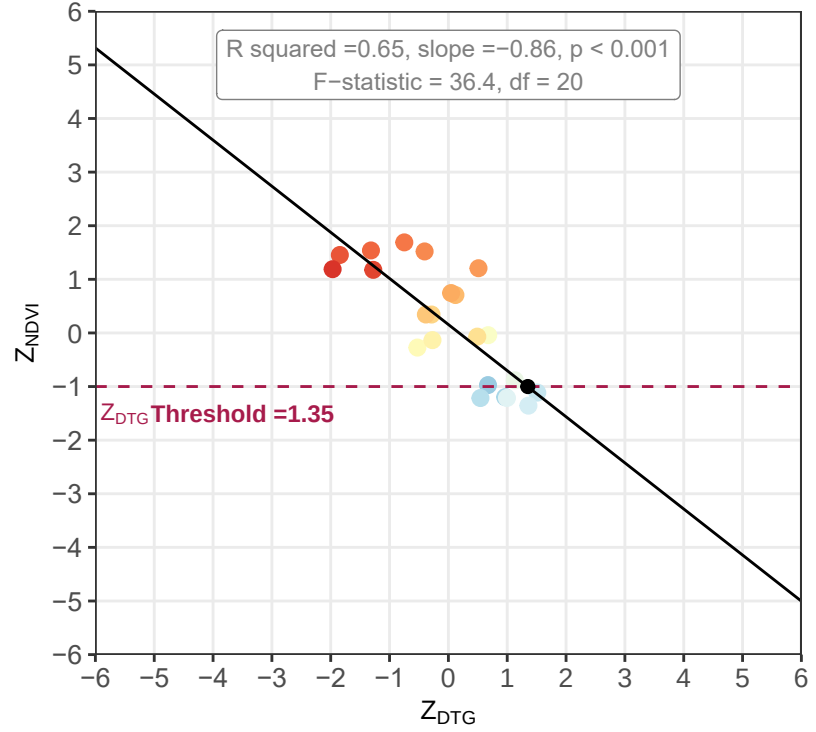
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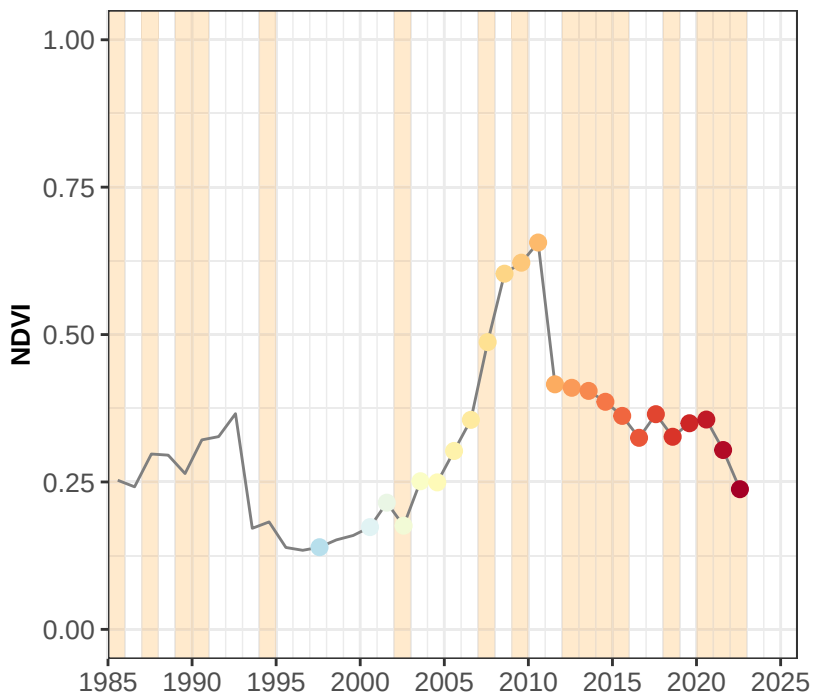


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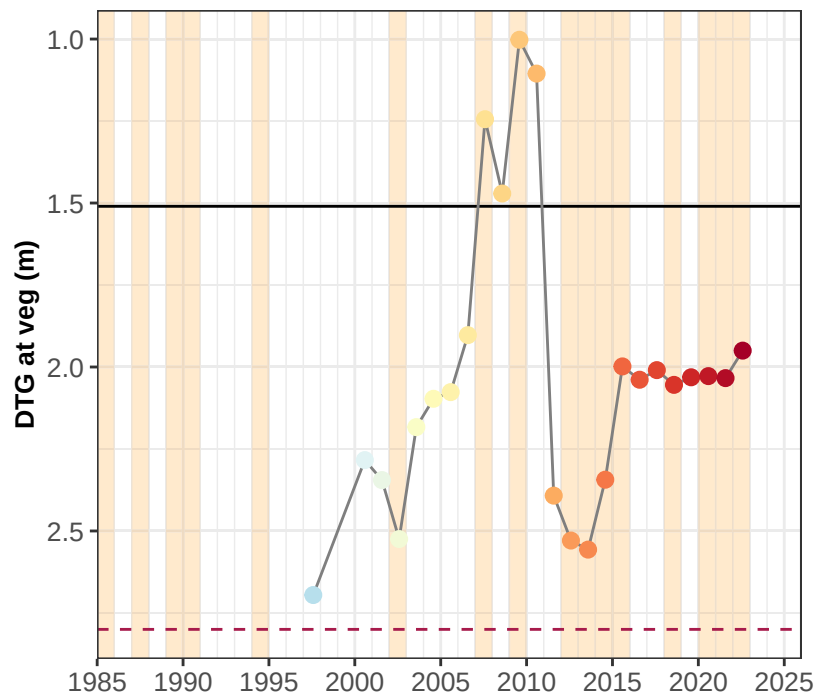


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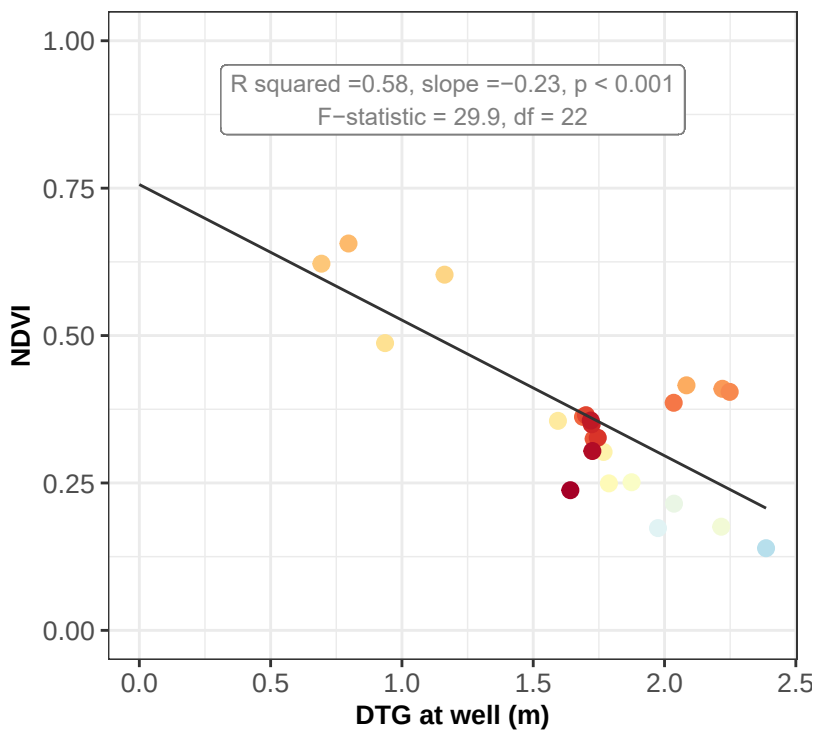
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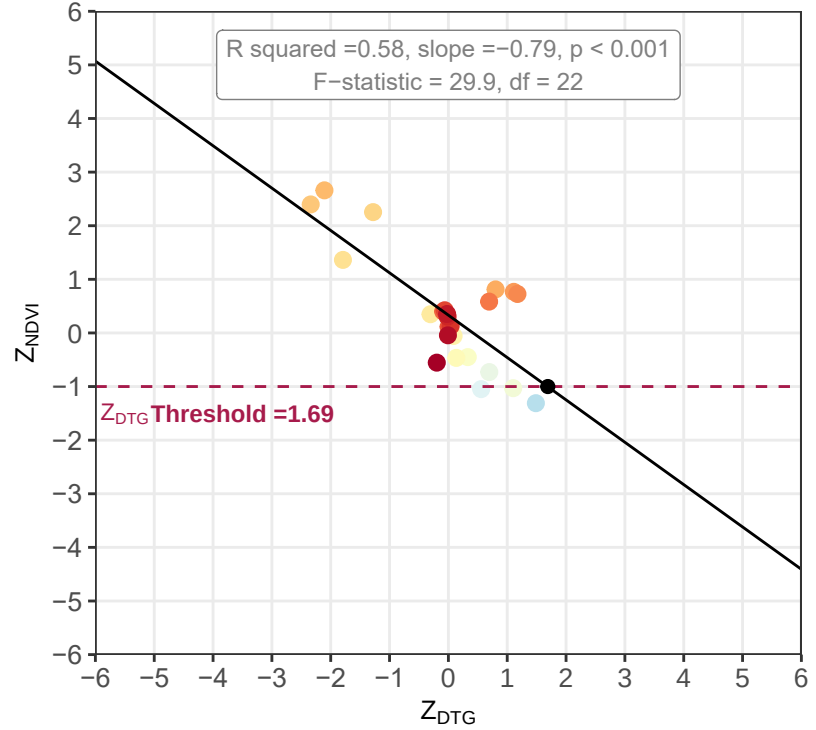
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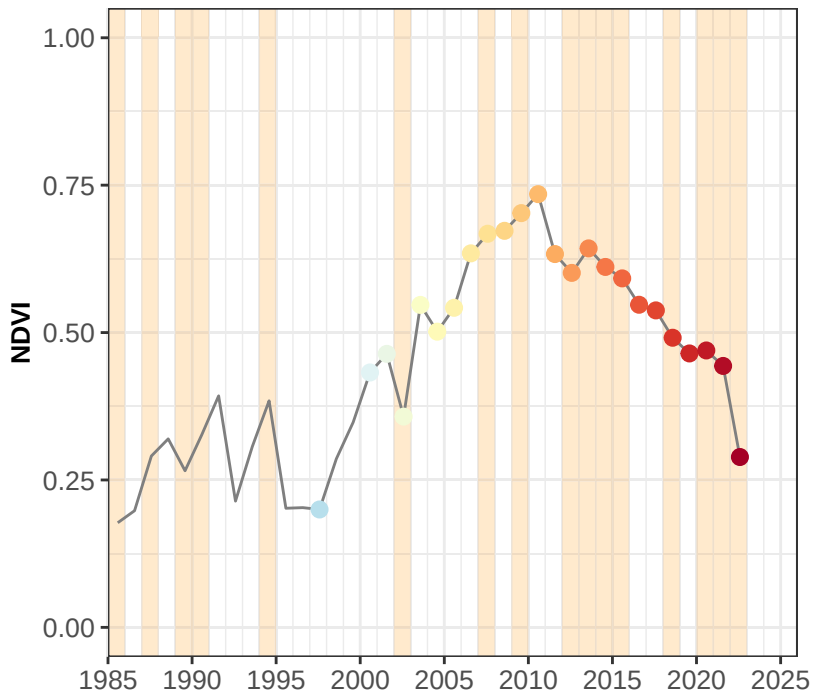


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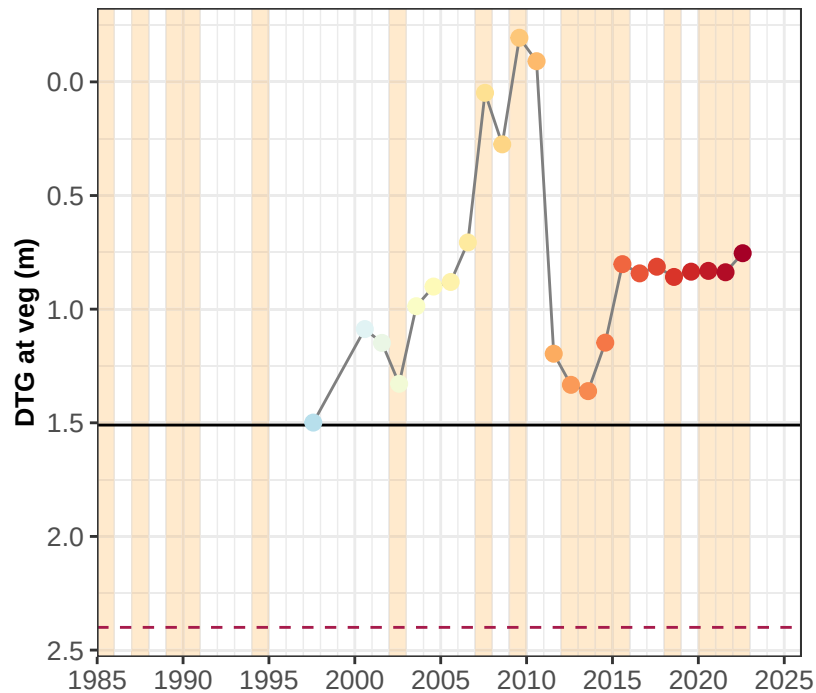


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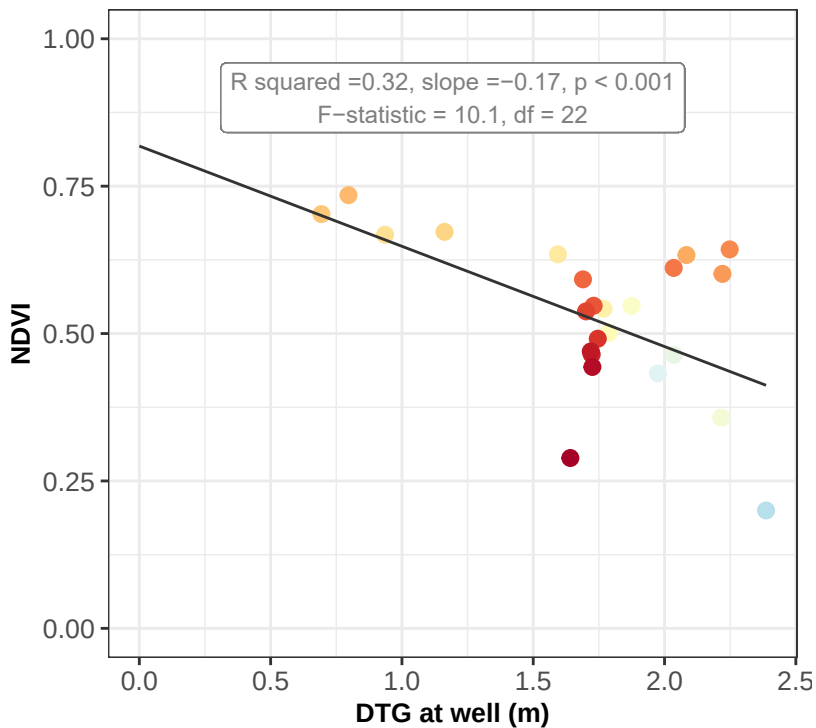
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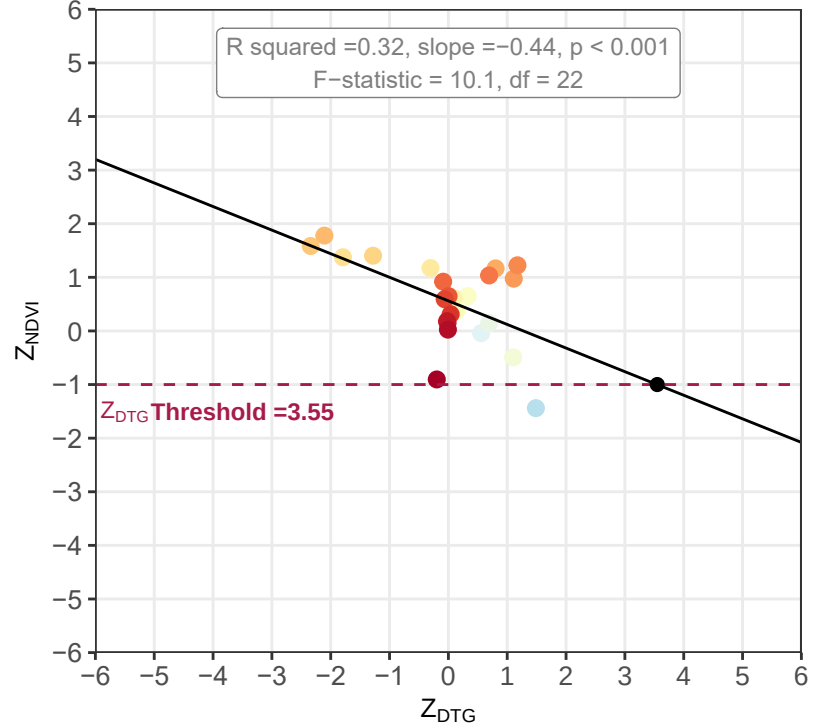
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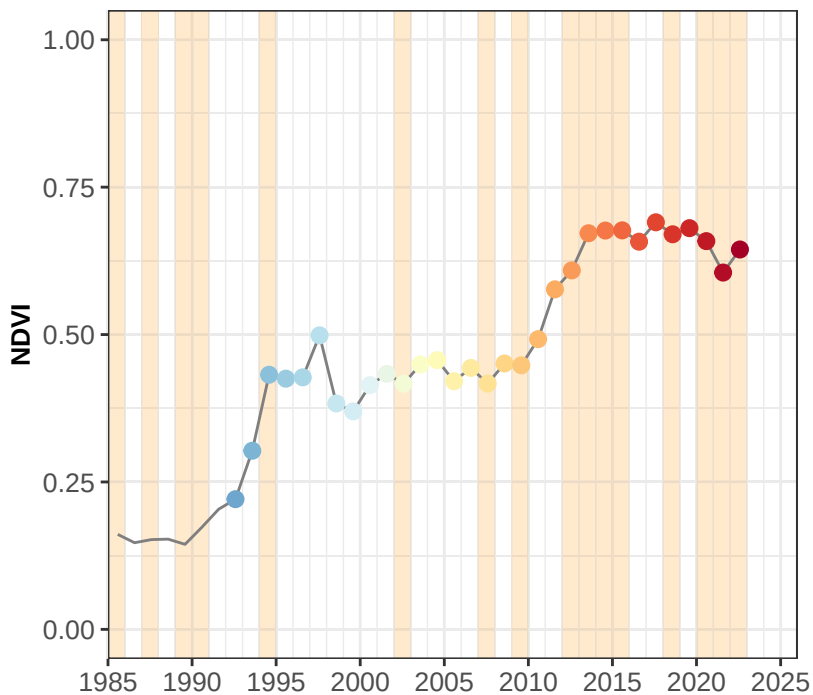


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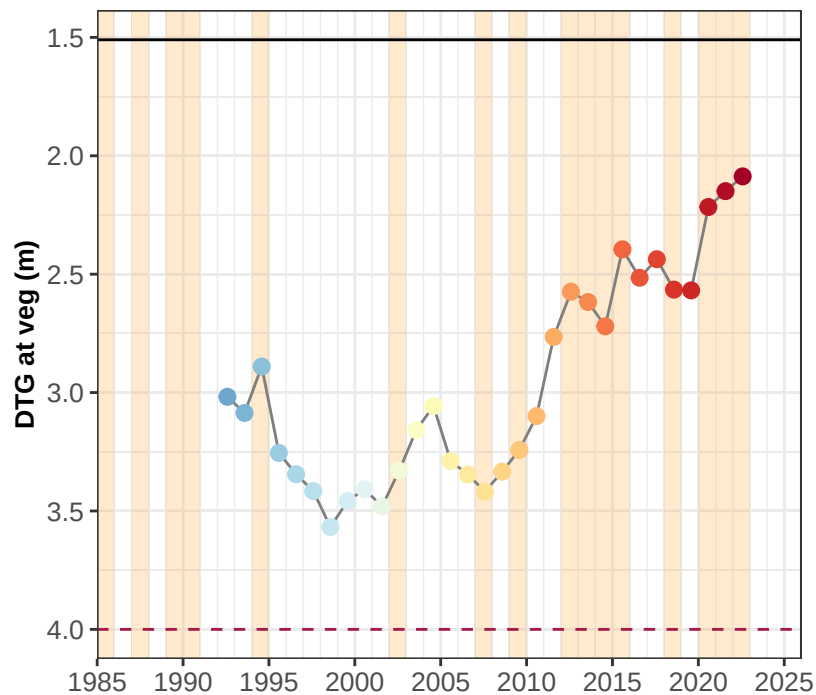


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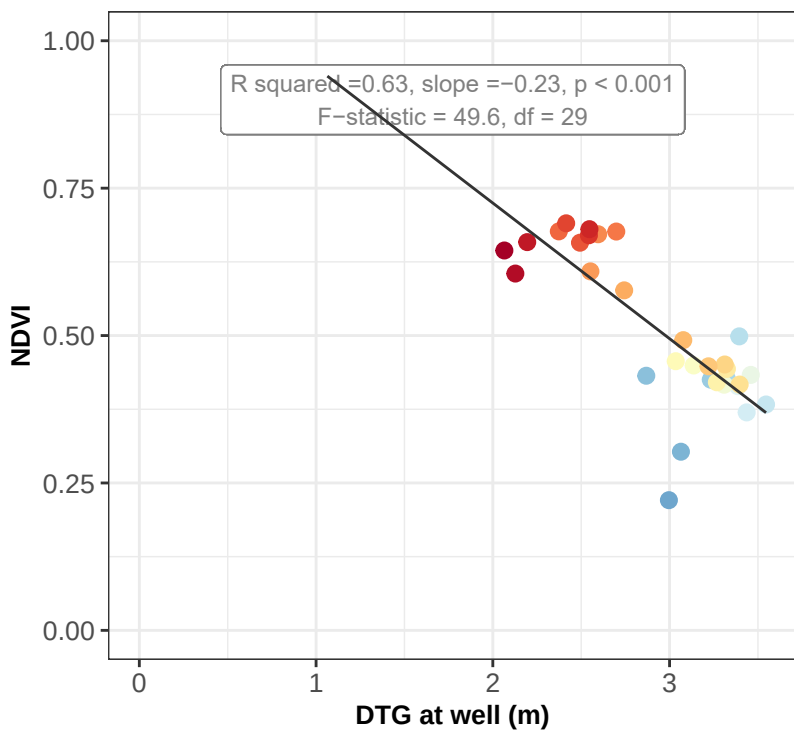
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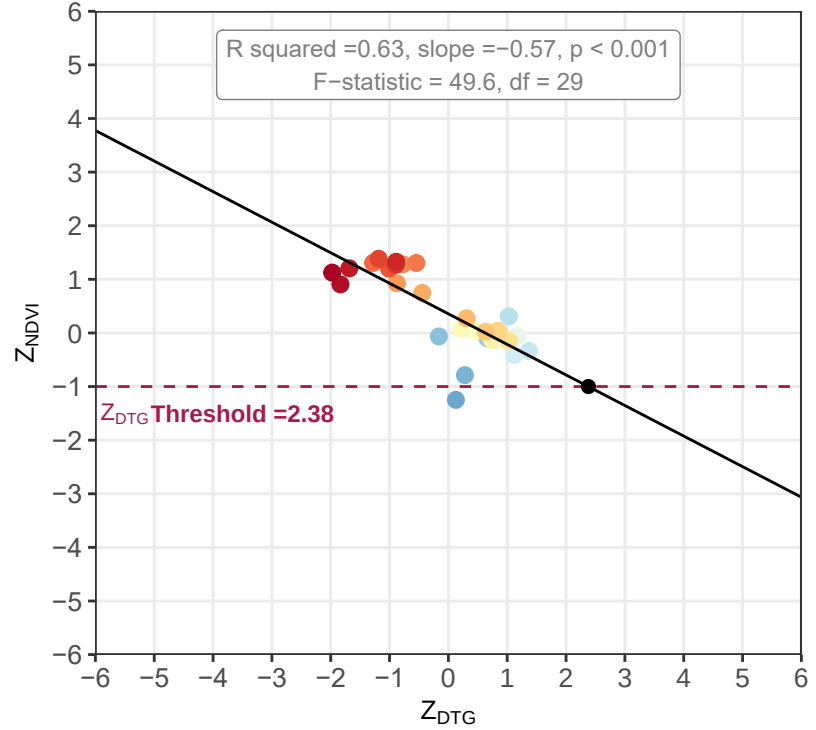
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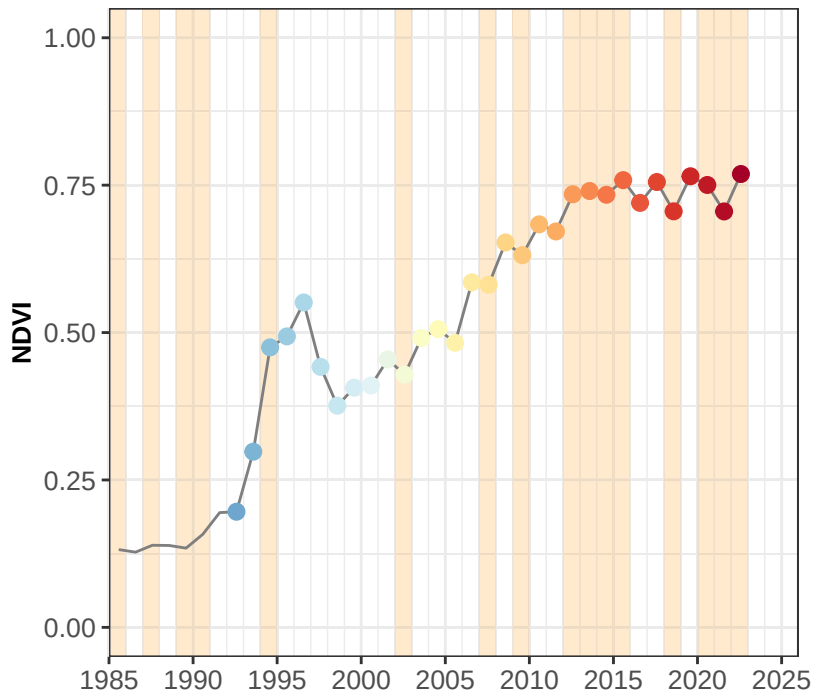


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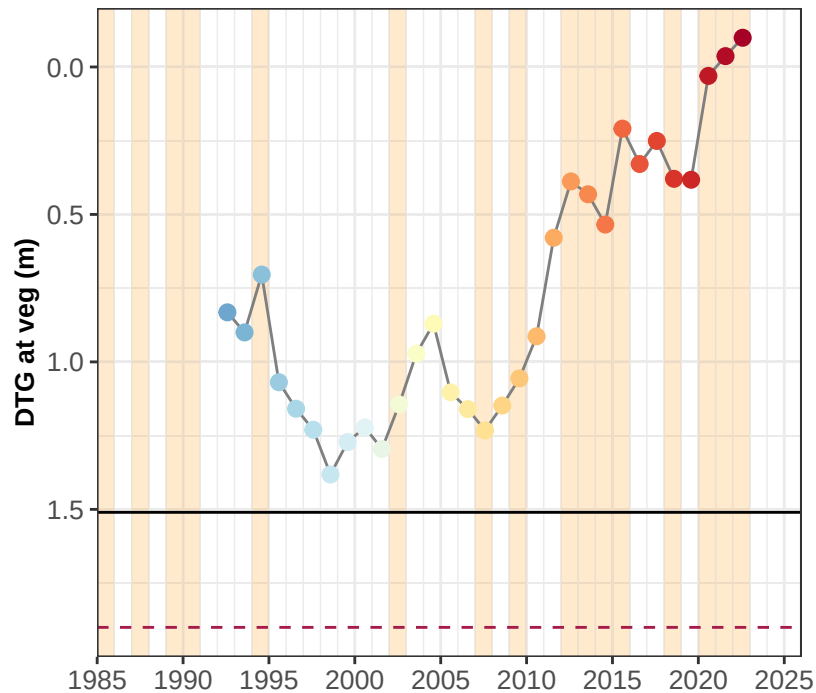


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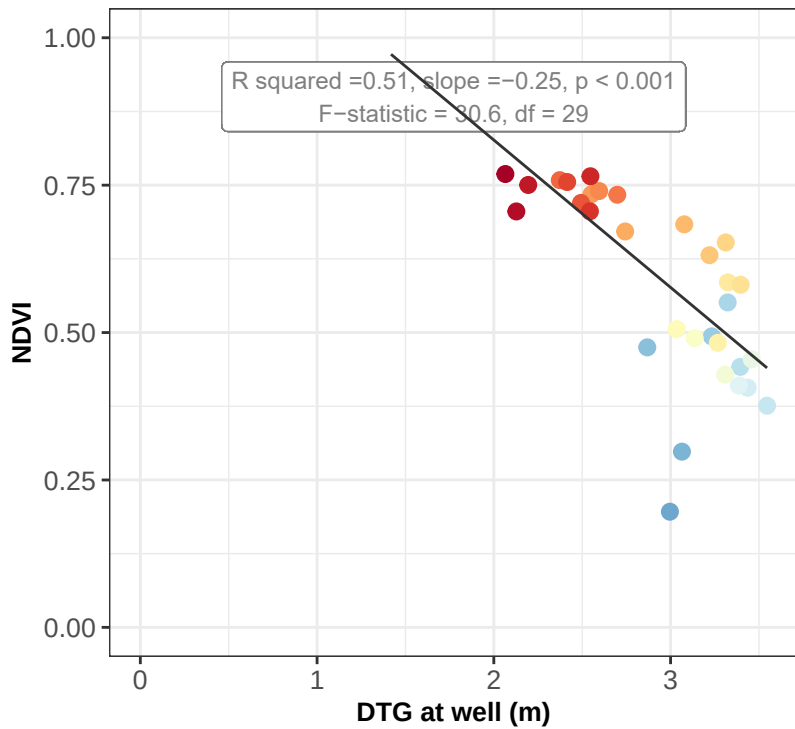
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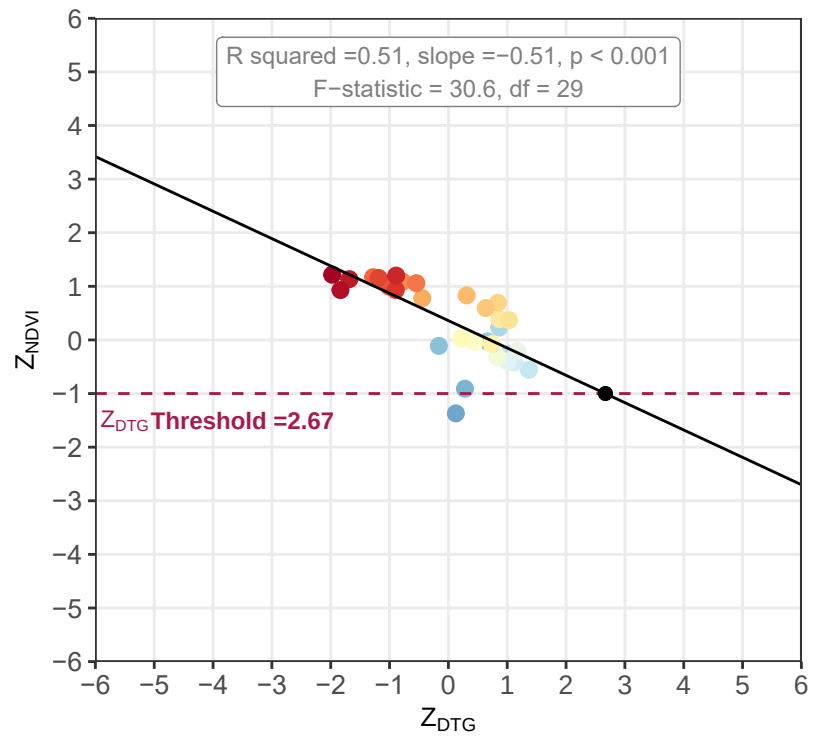
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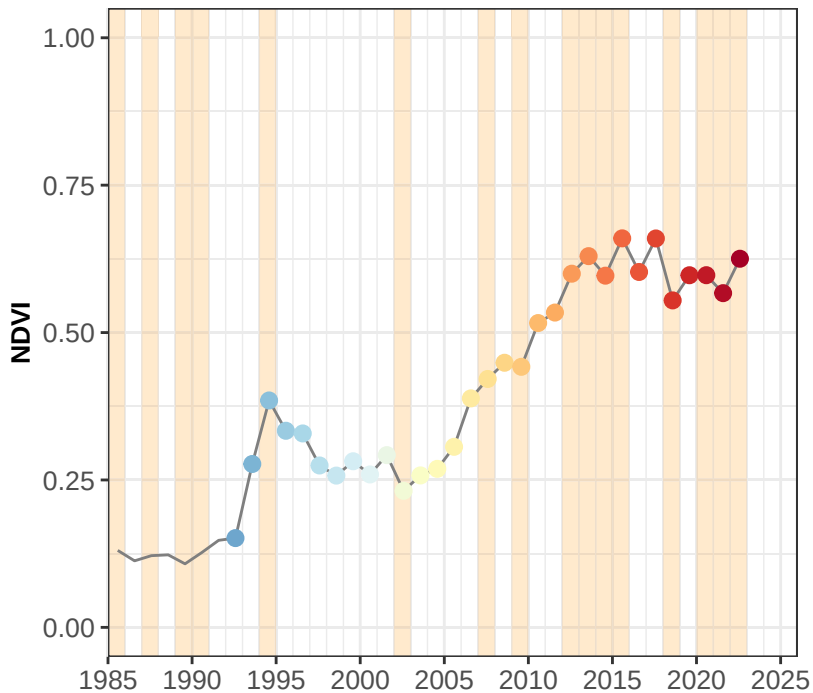


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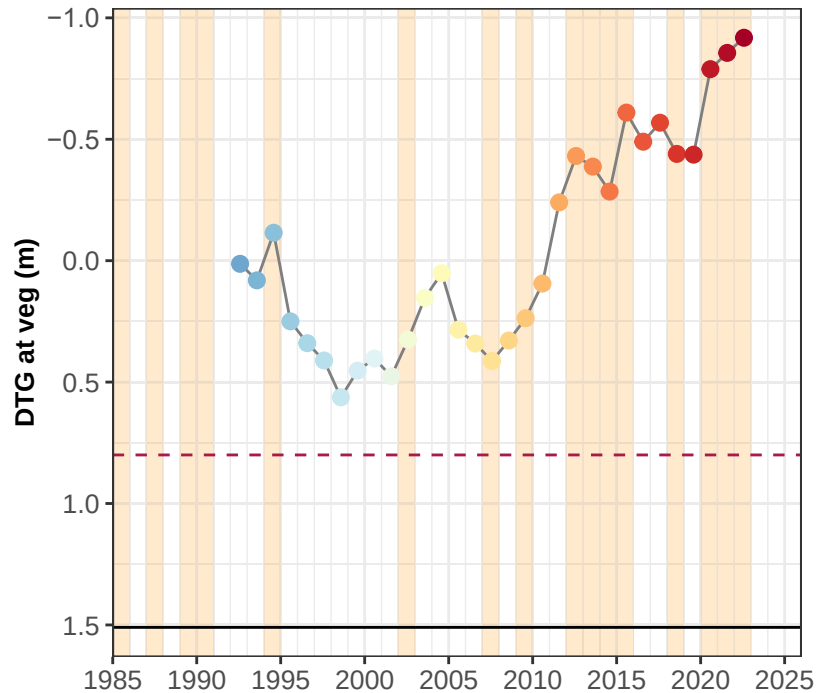


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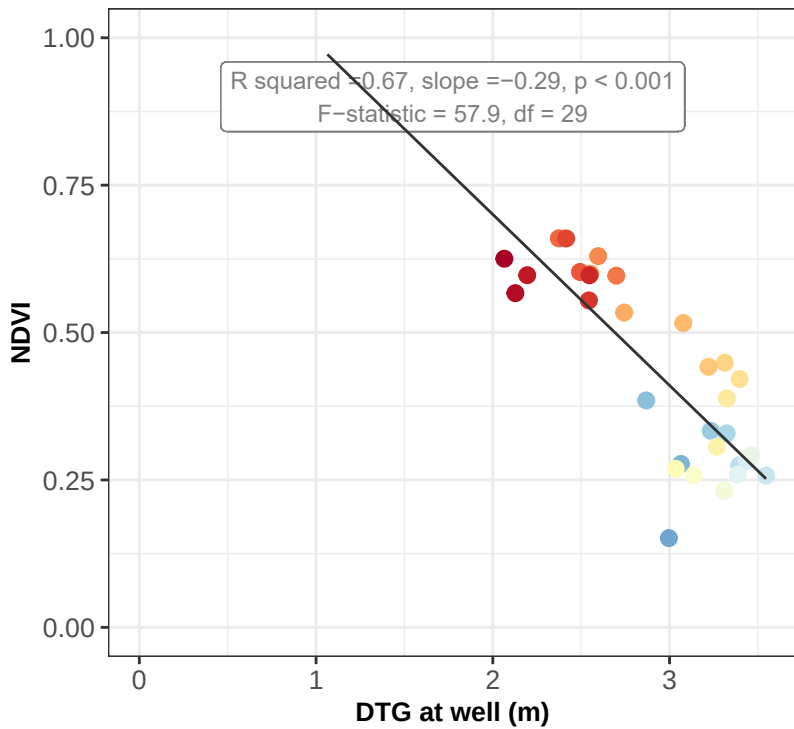
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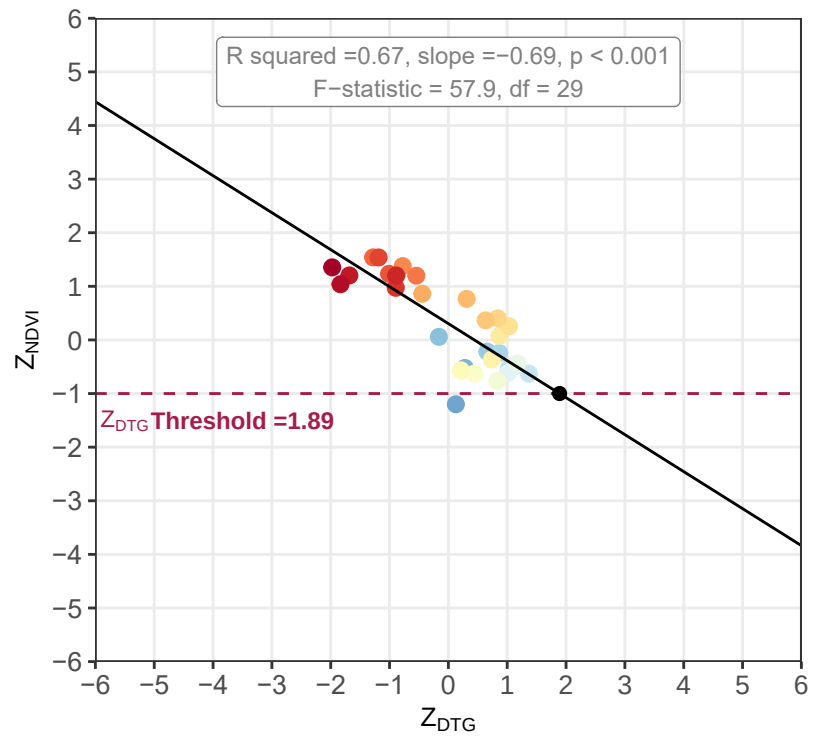
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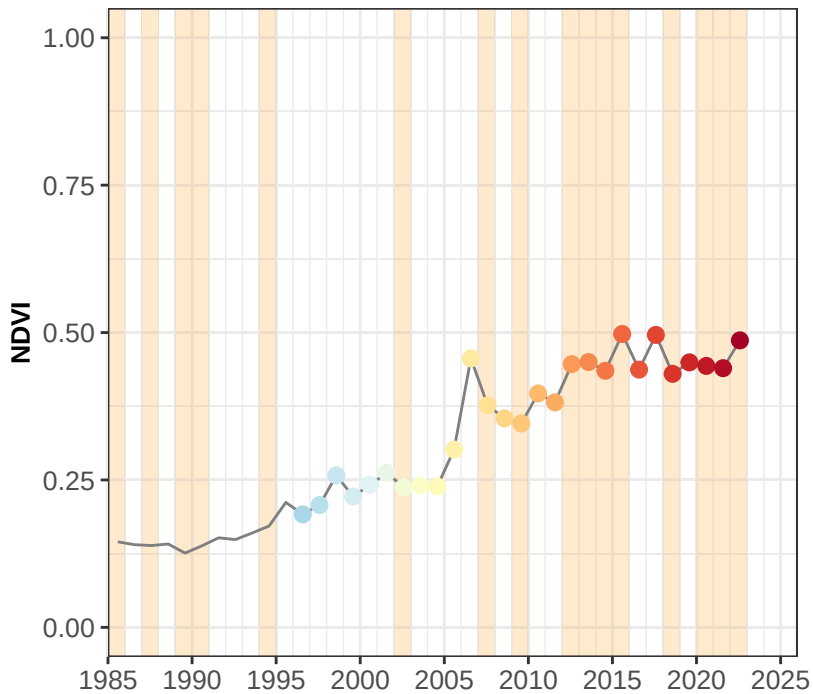


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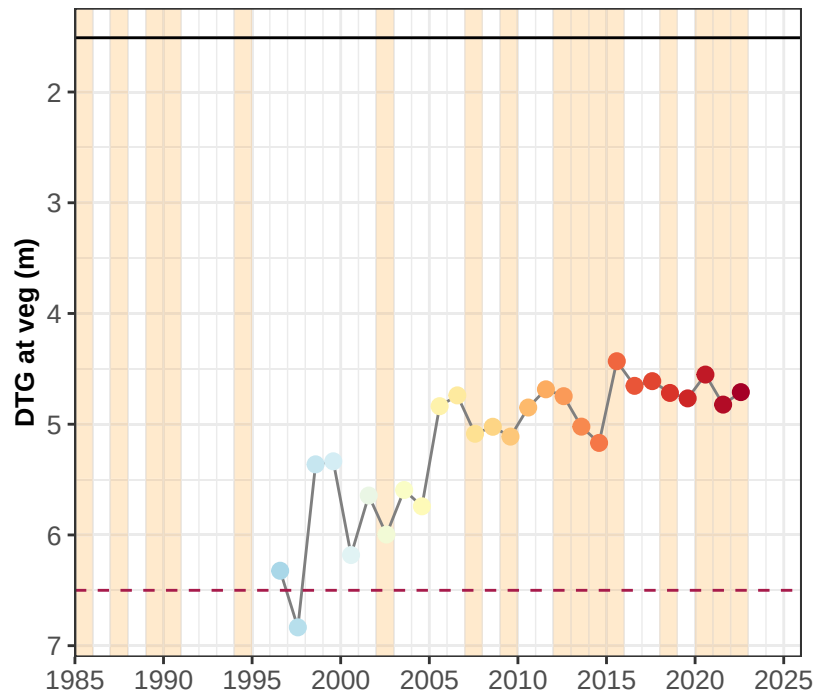


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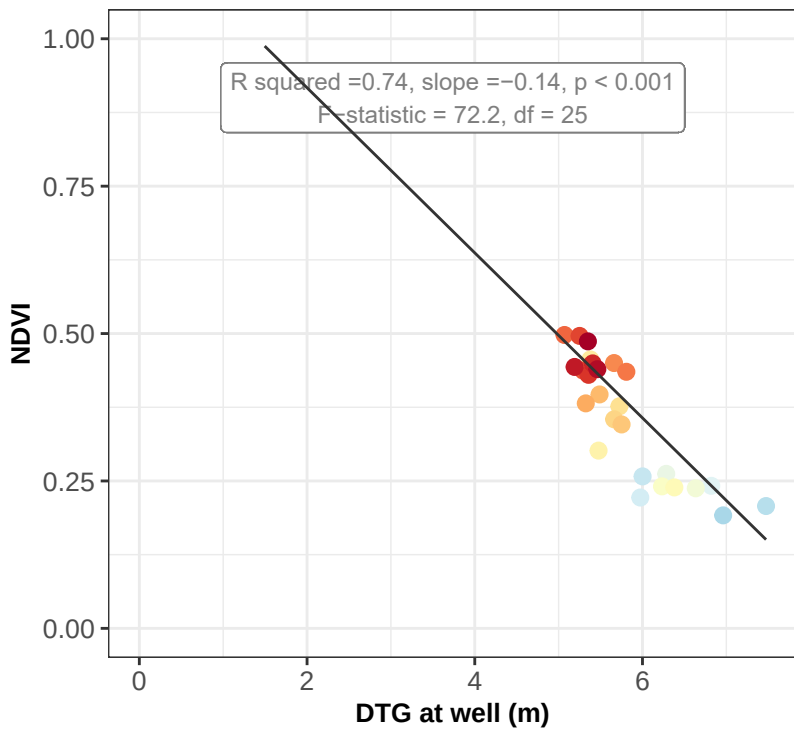
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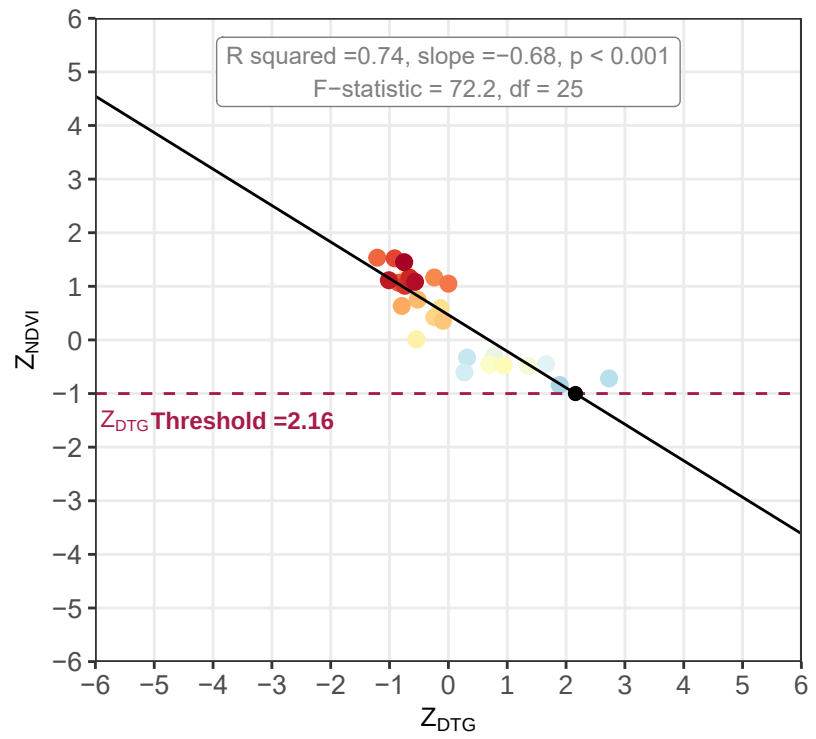
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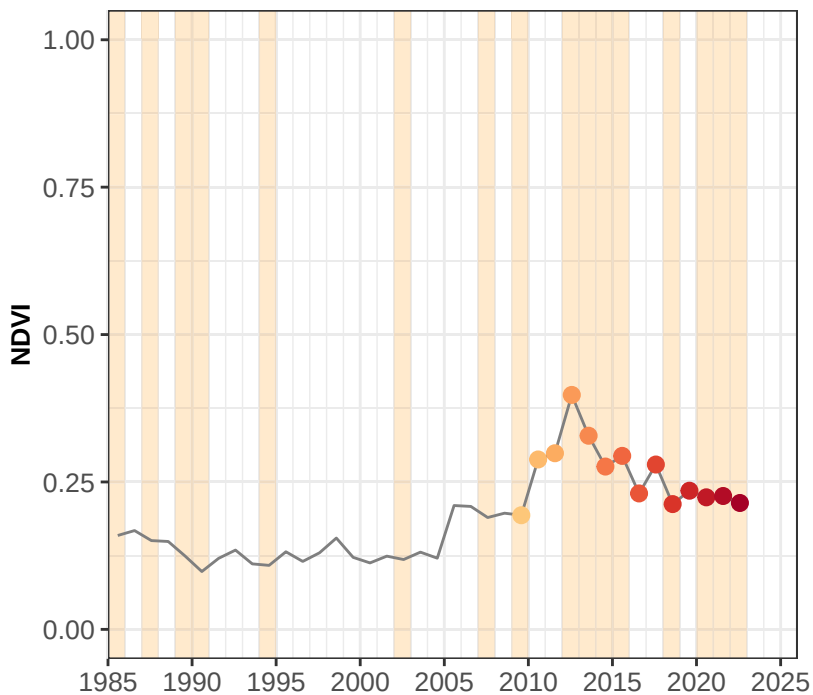


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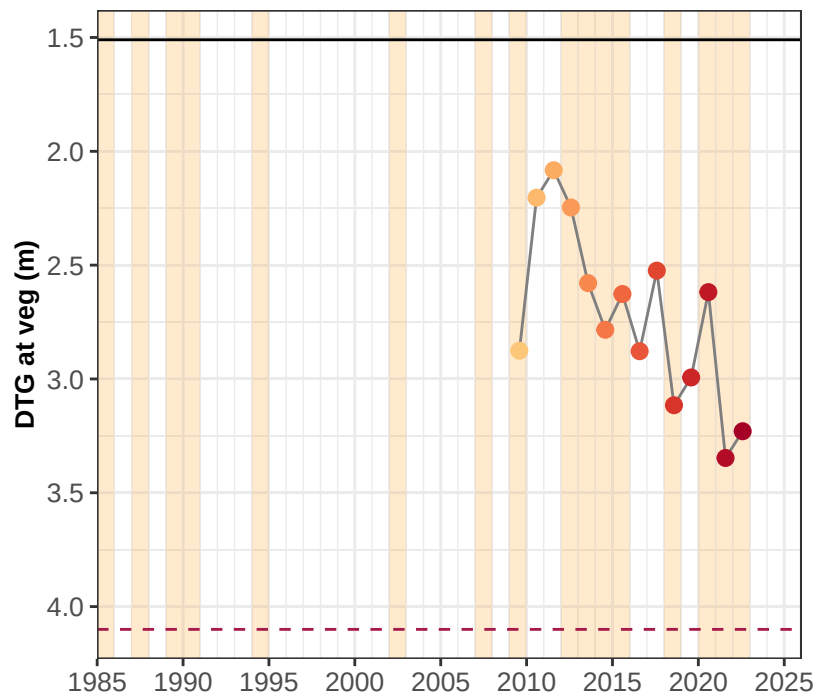


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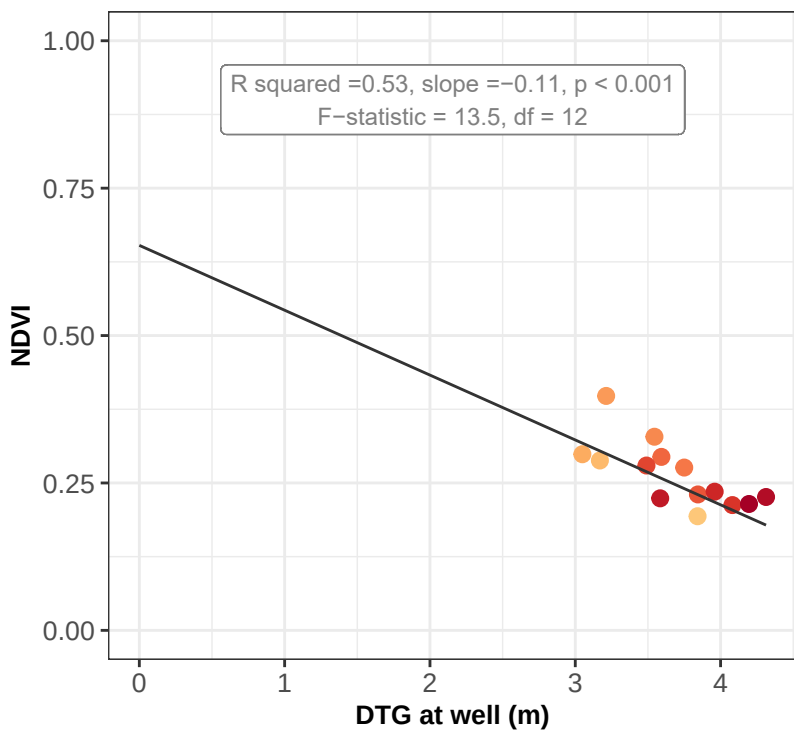
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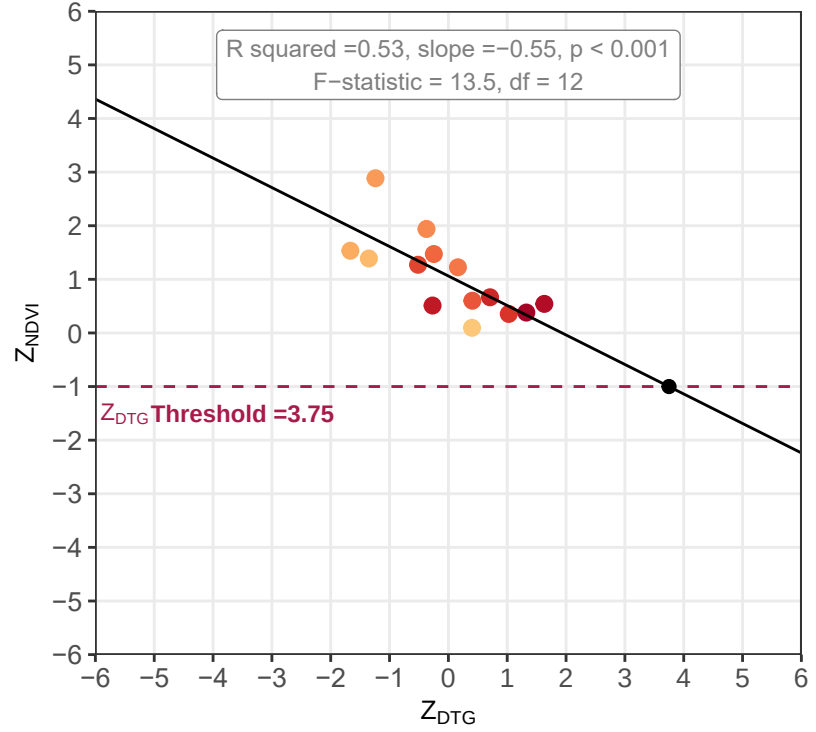
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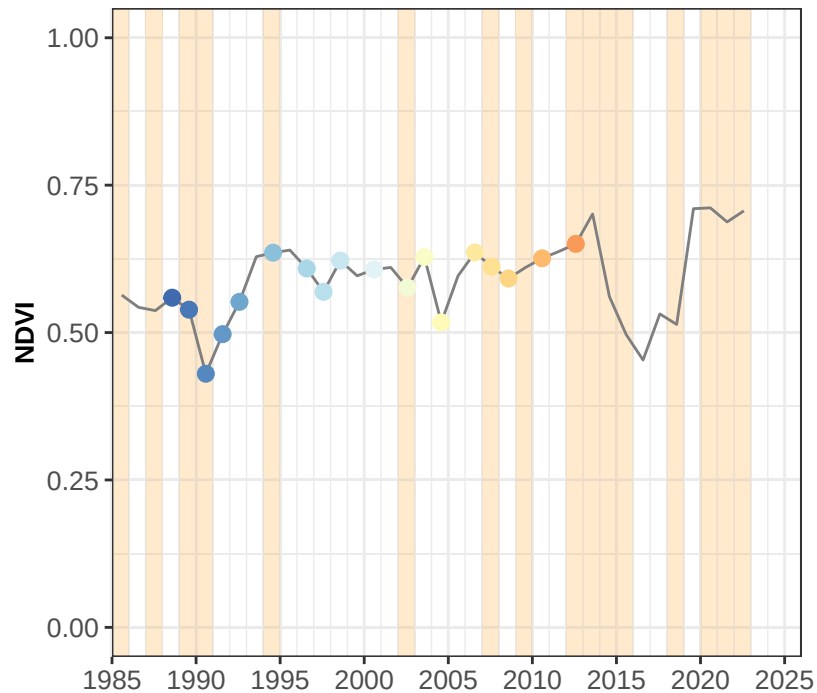


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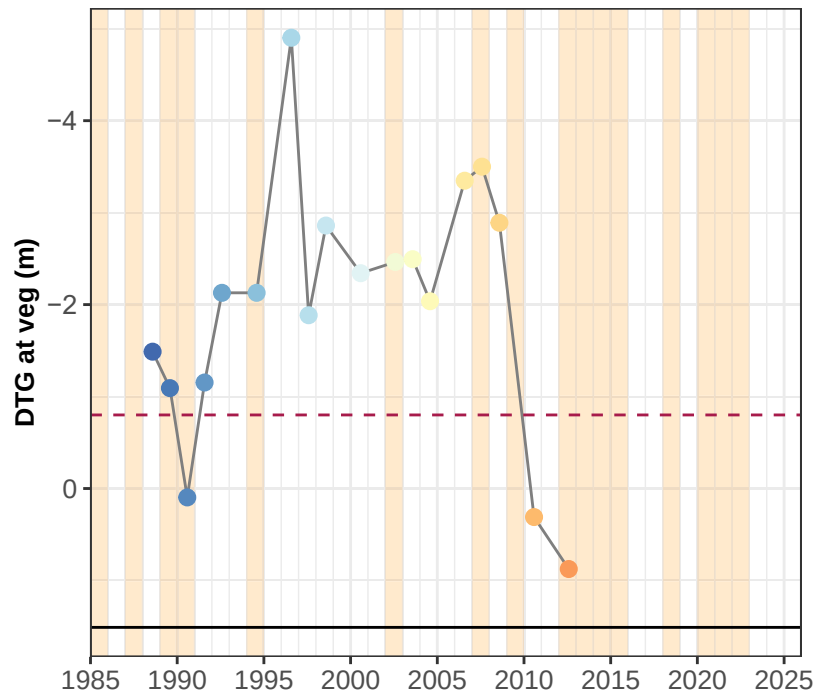


Salix (gdeID: 110991)

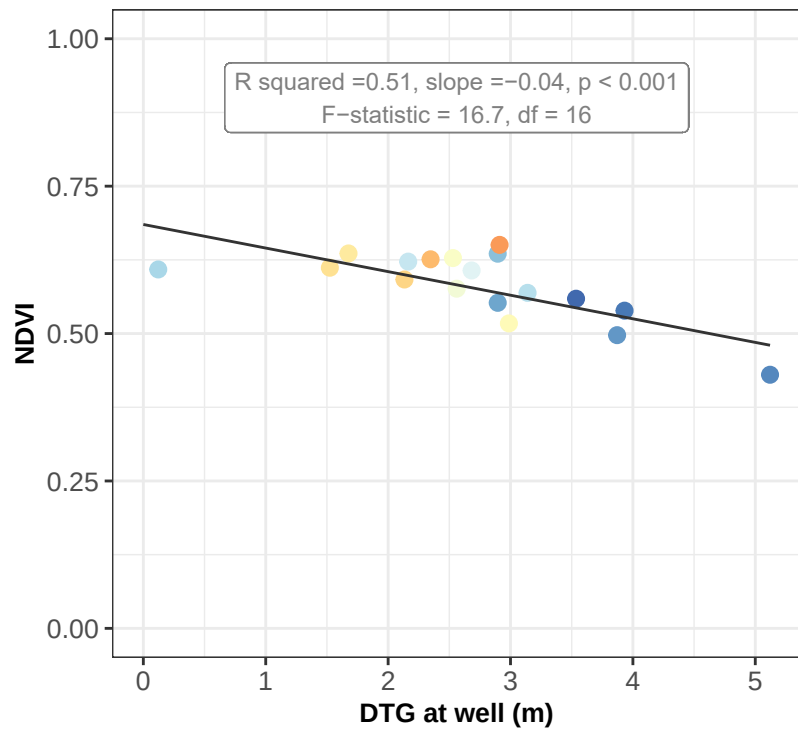
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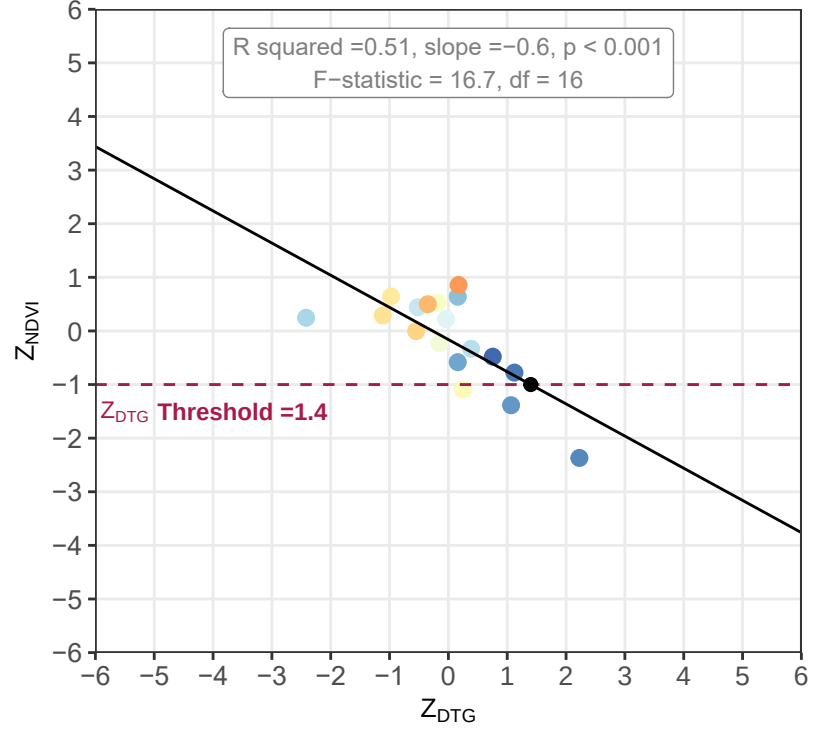
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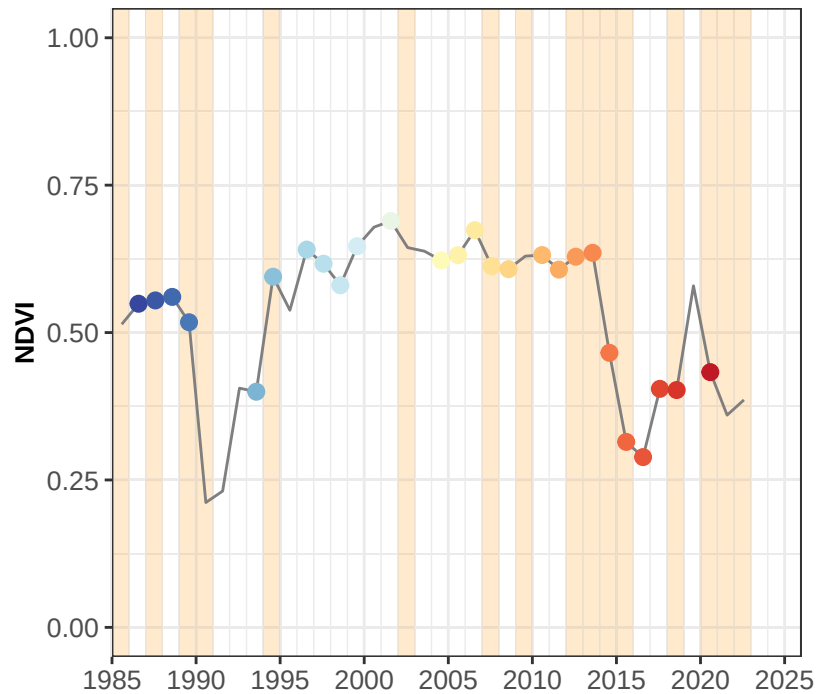


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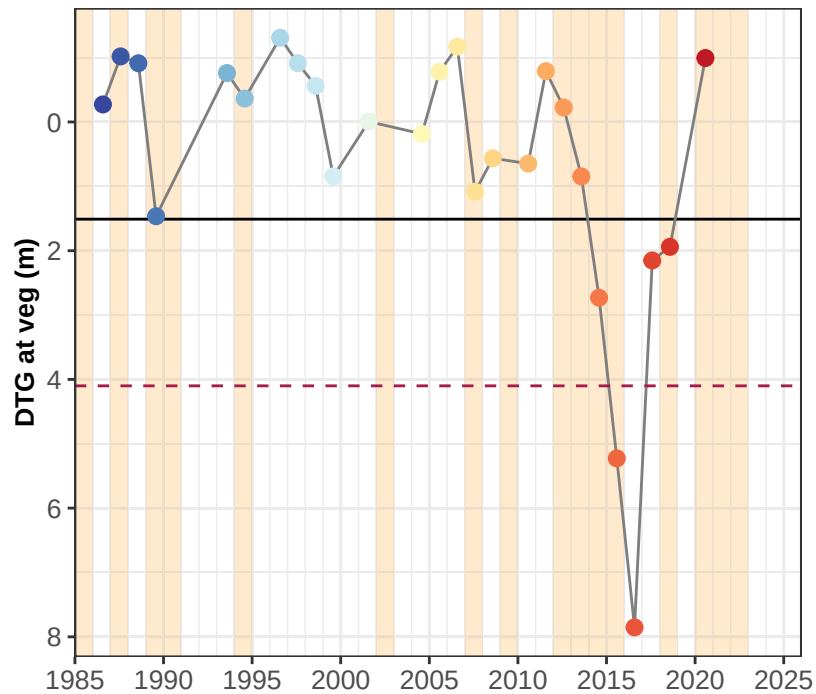


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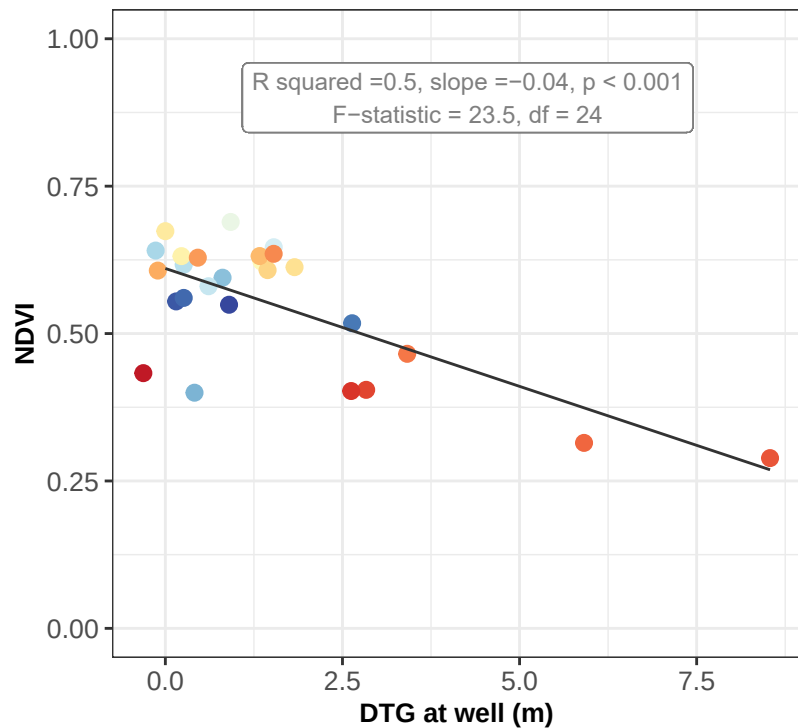
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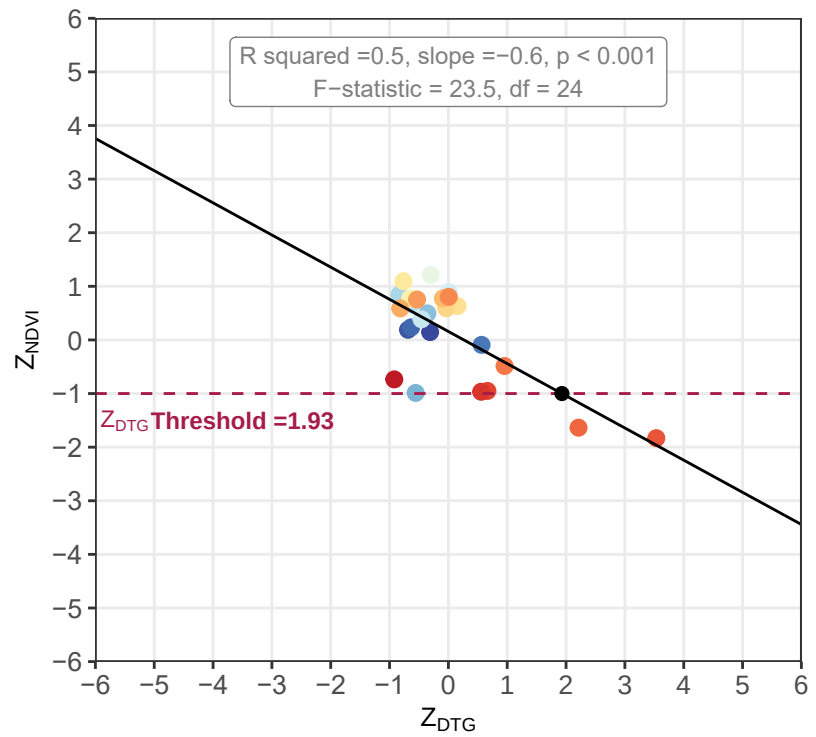
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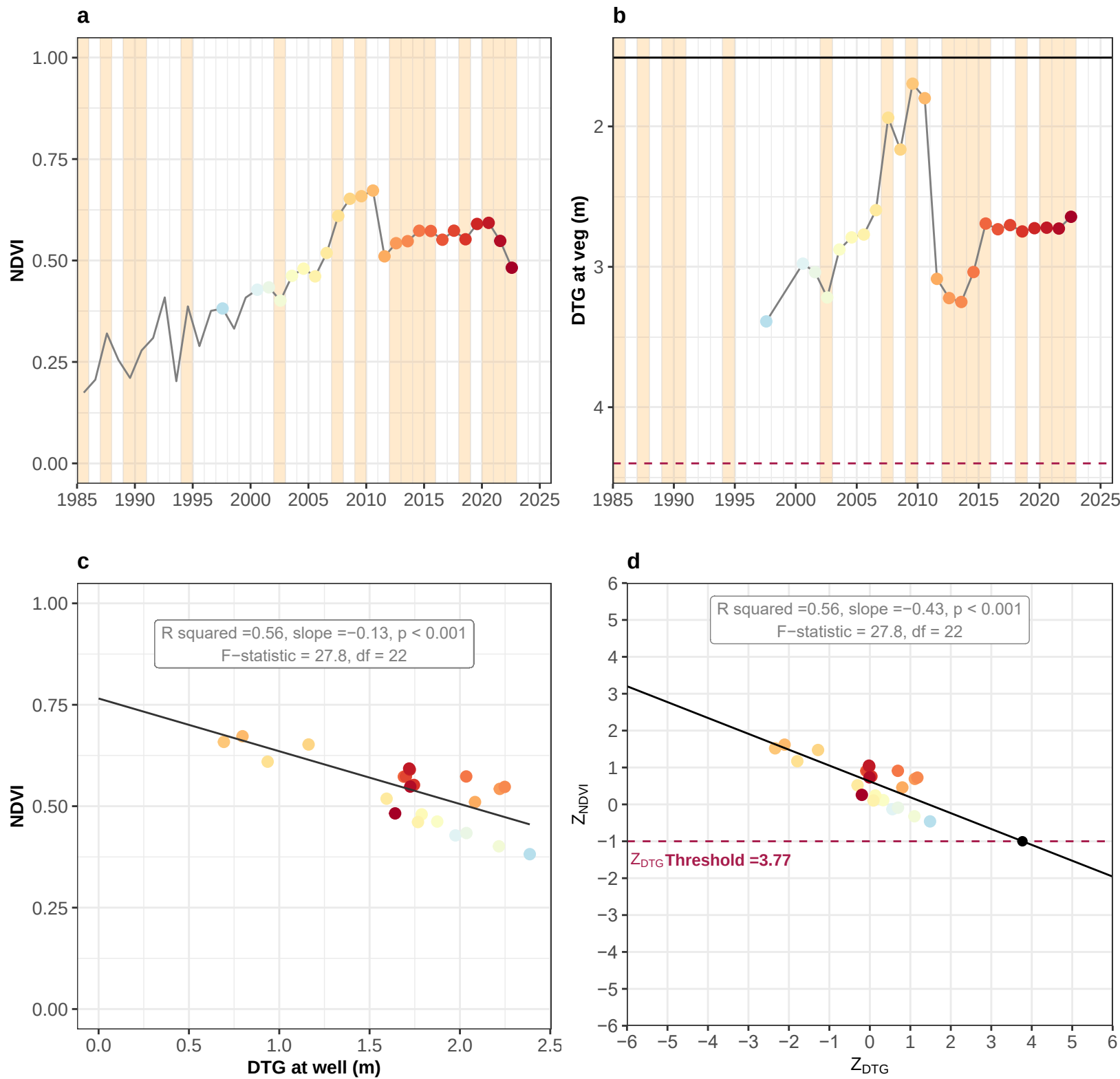
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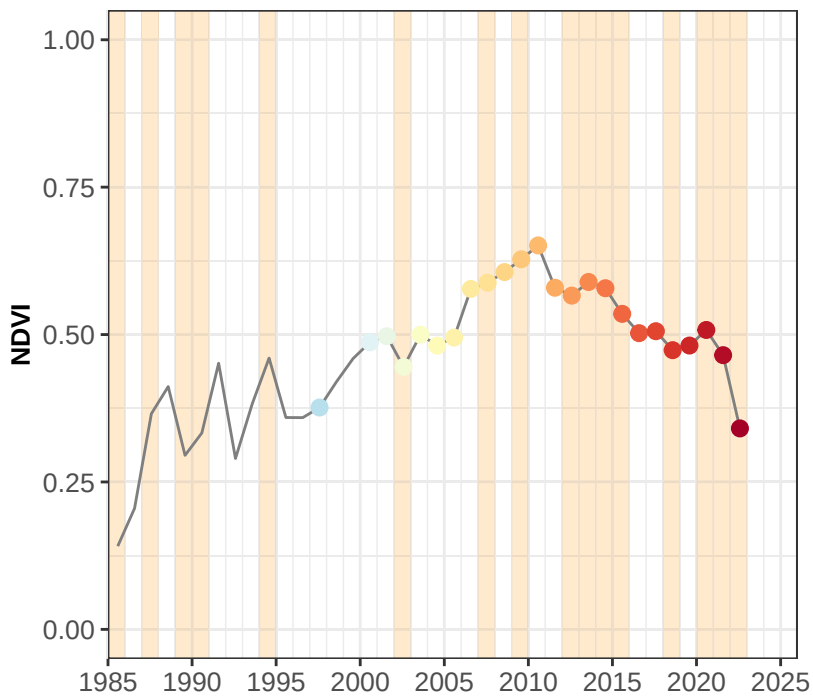


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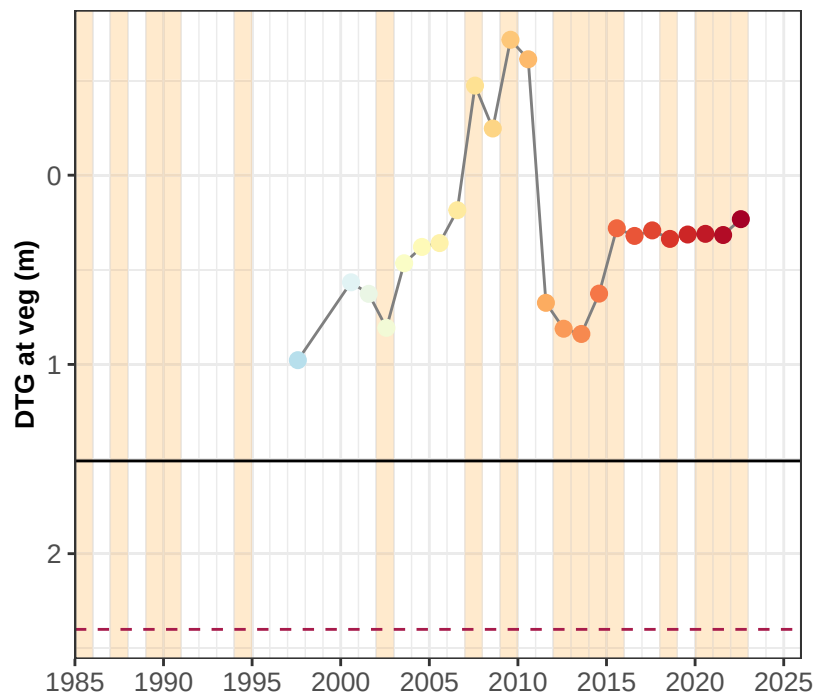


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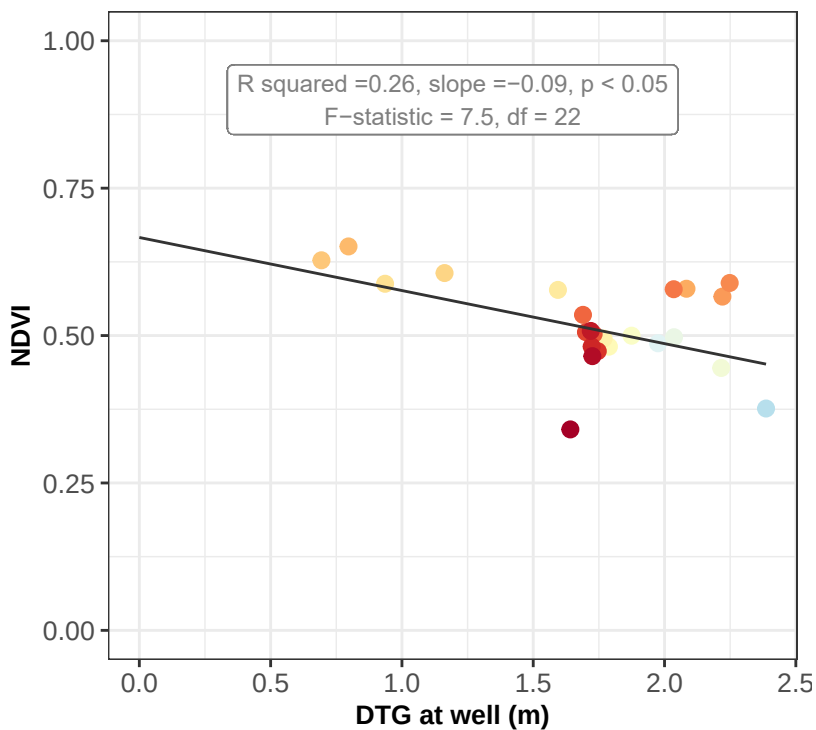
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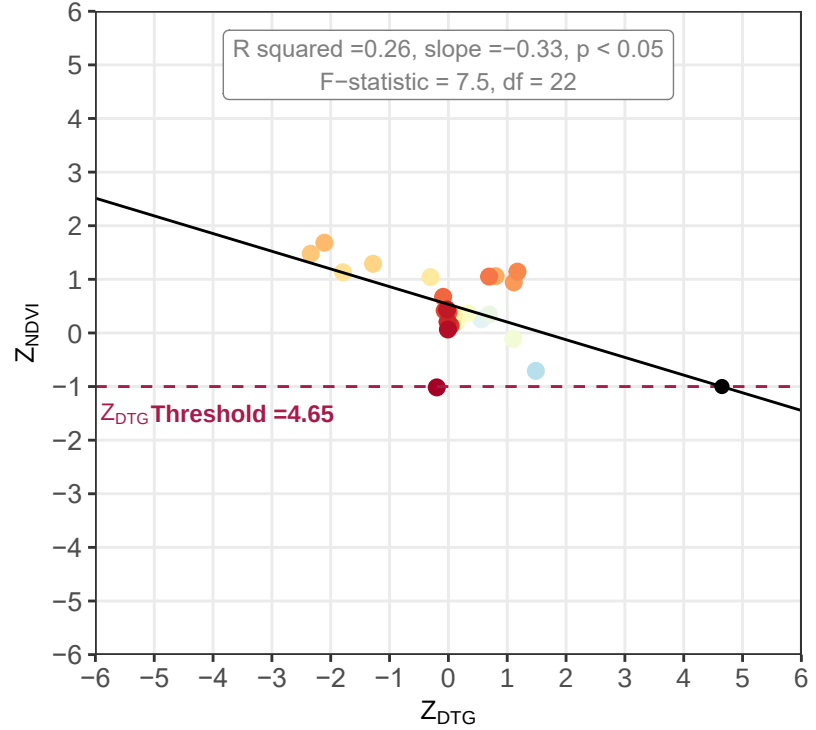
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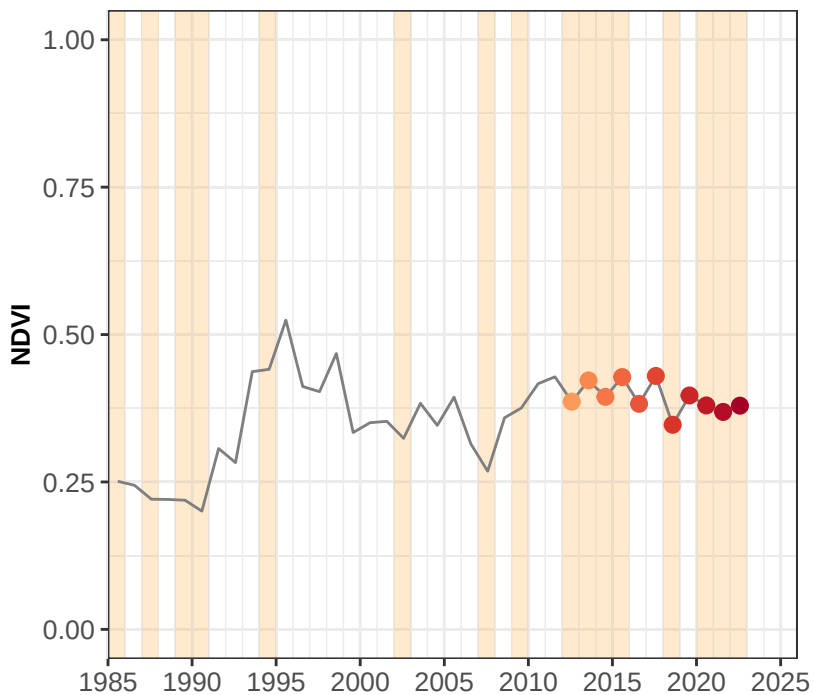


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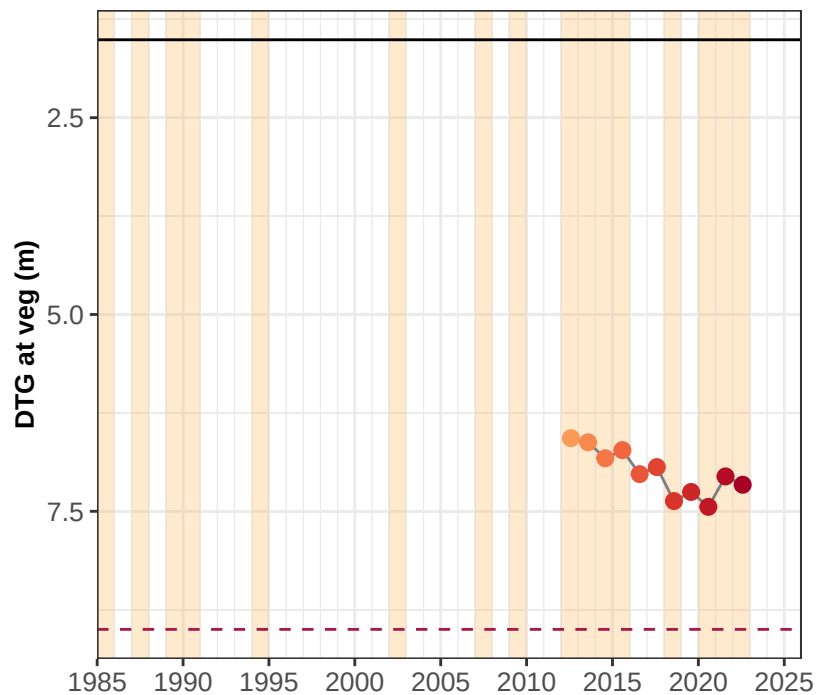


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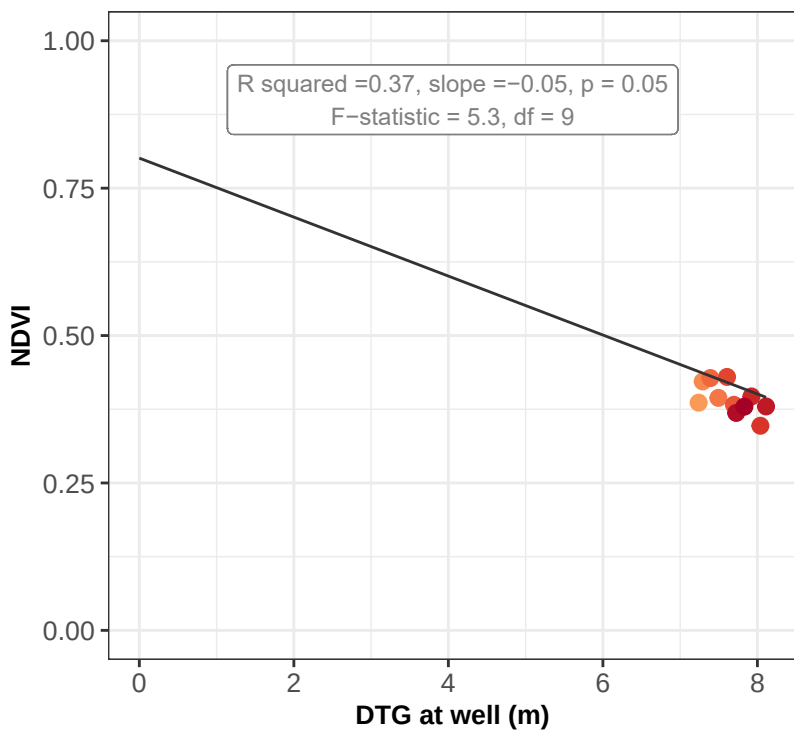
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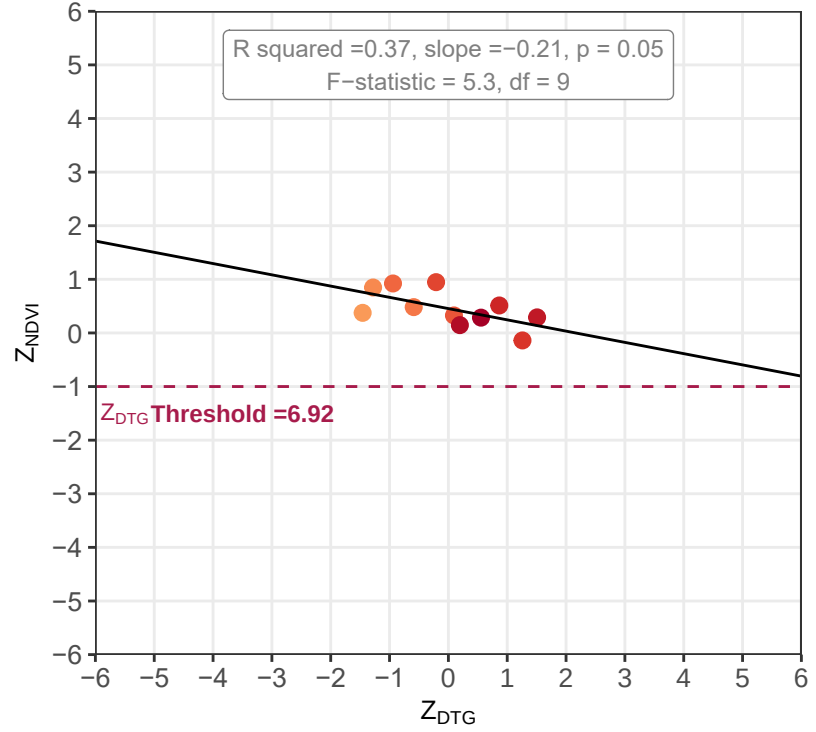
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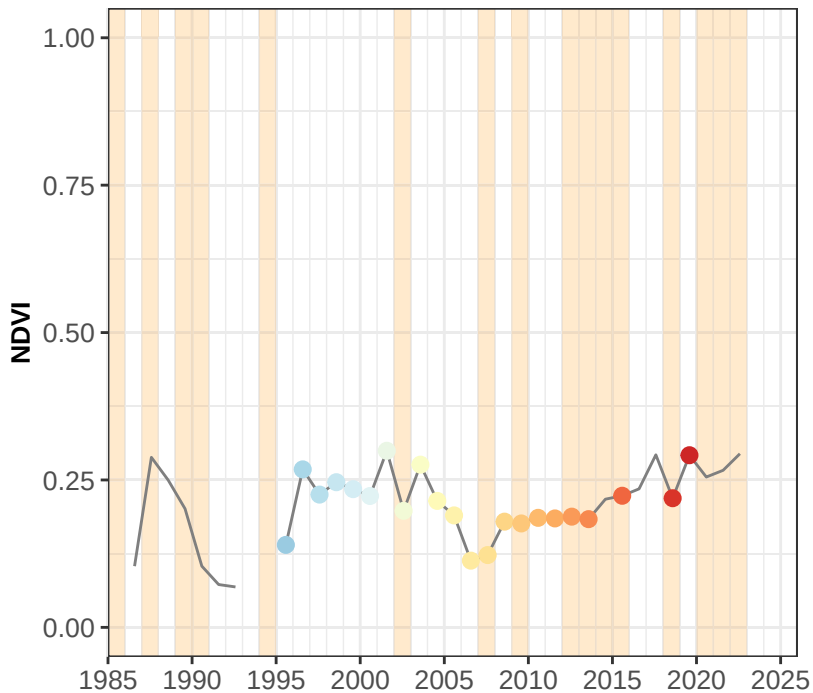


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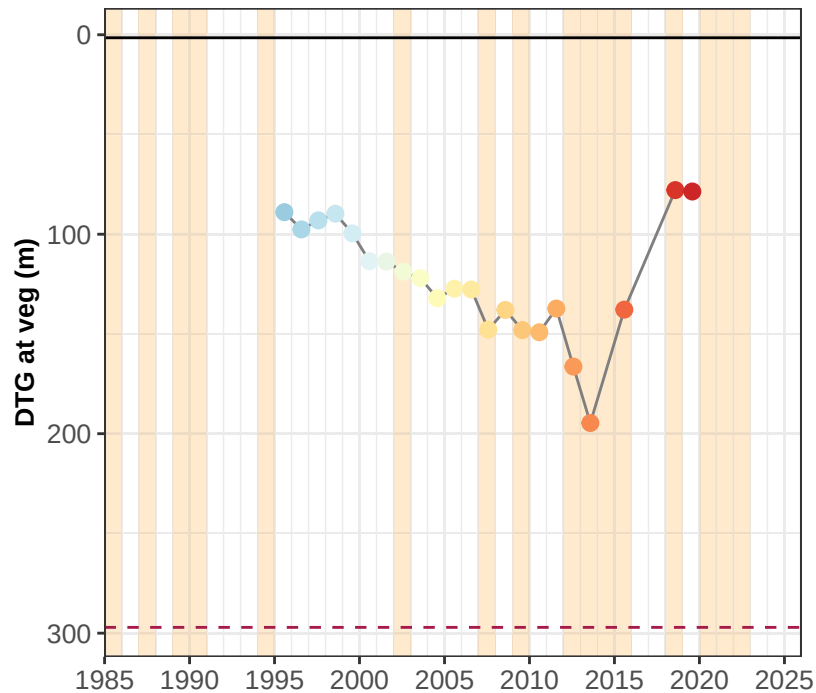


Salix (gdeID: 111439)

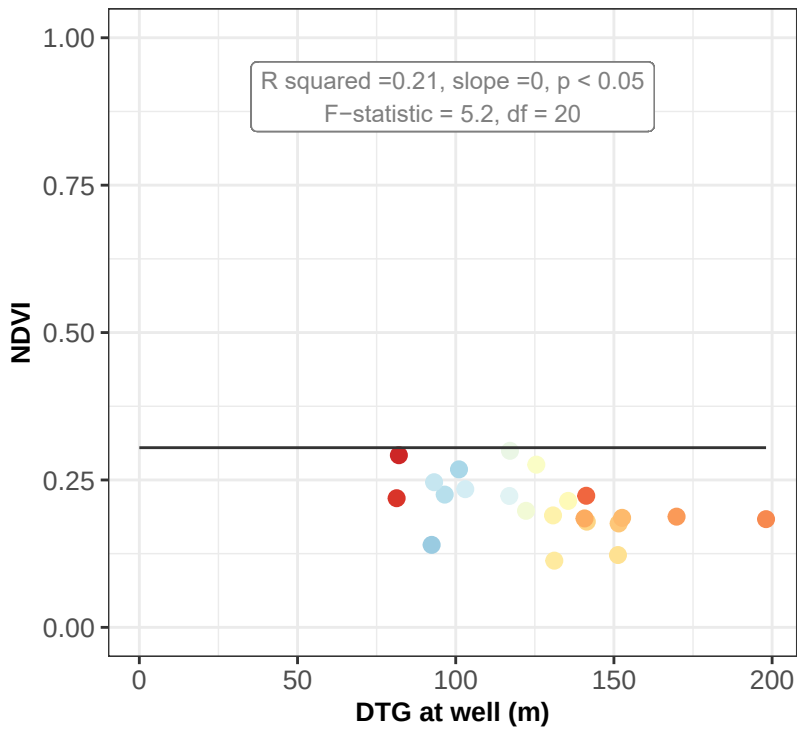
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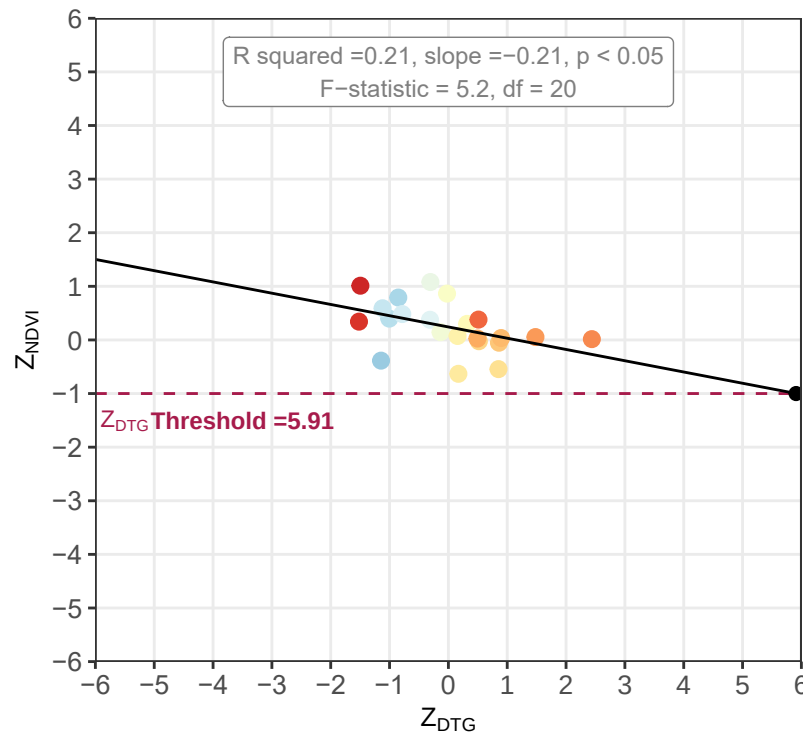
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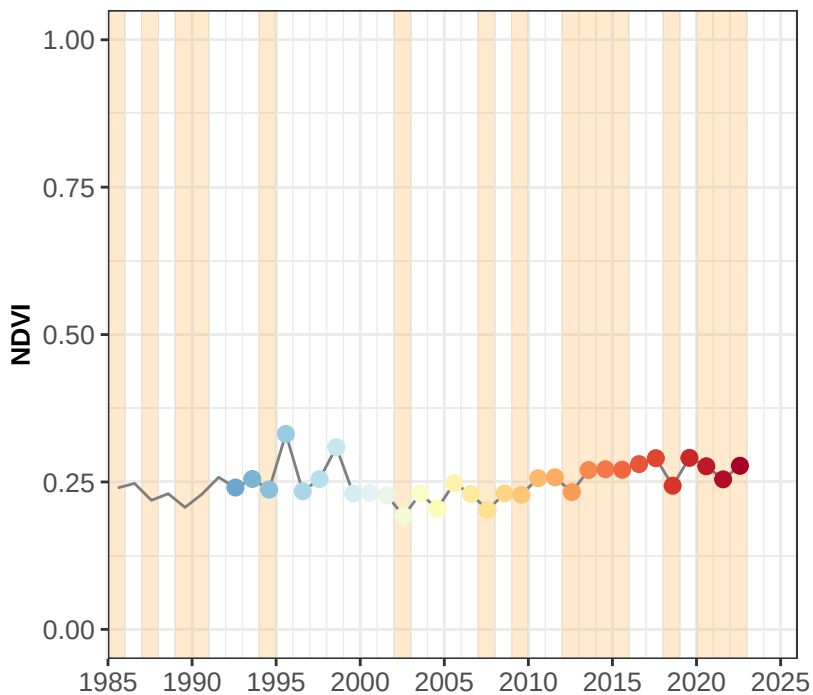


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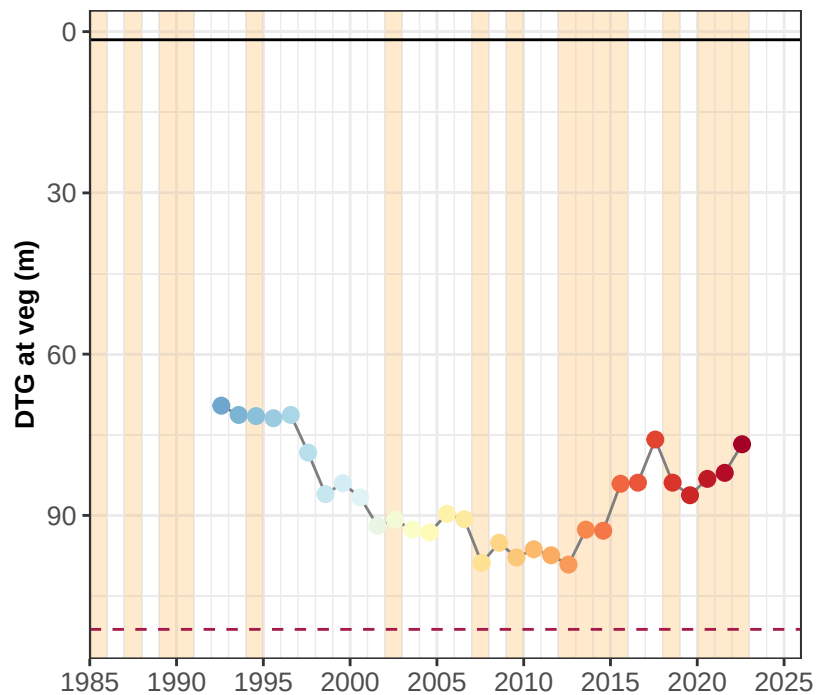


Salix (gdeID: 111894)

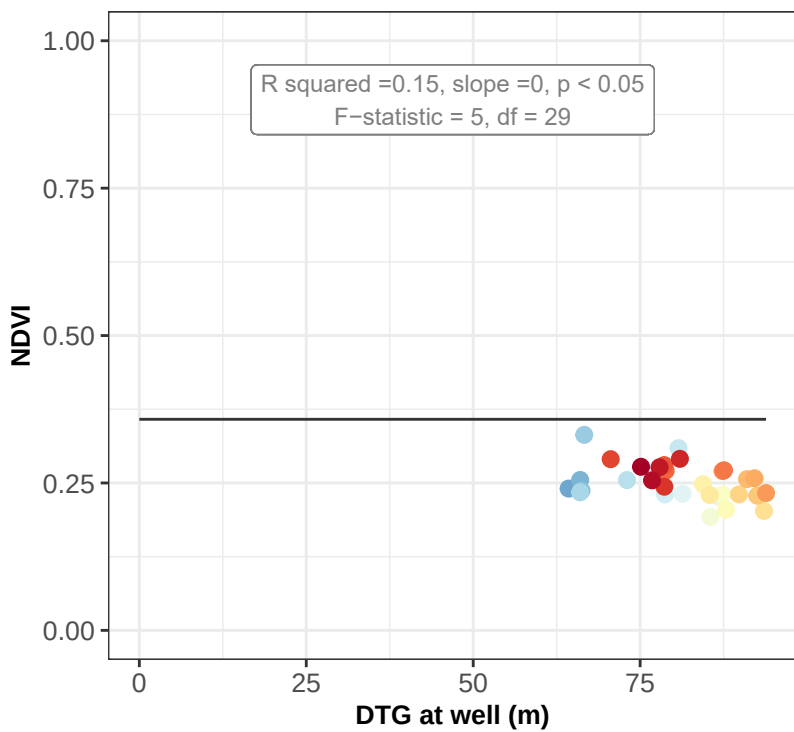
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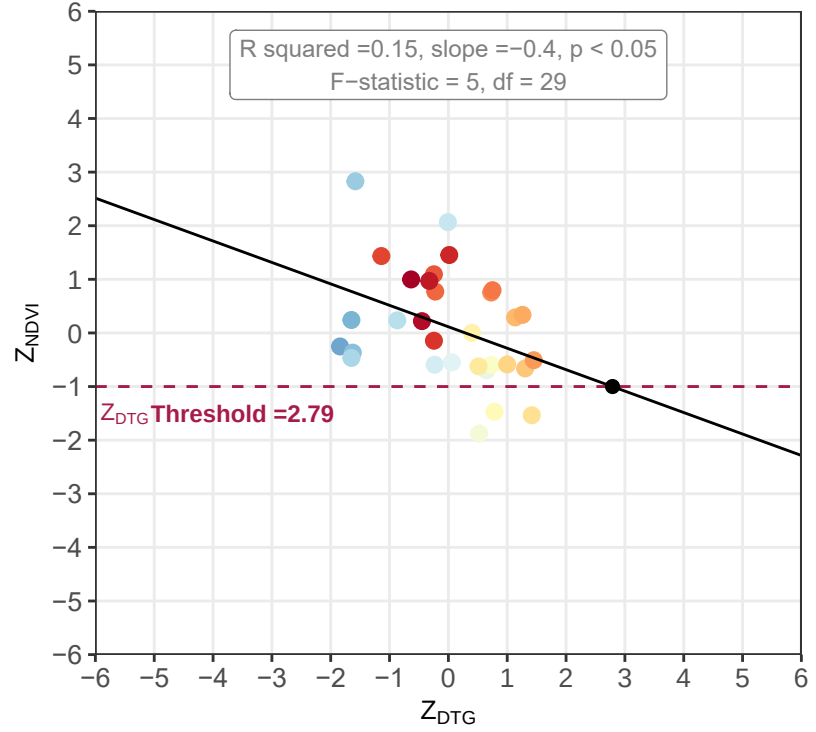
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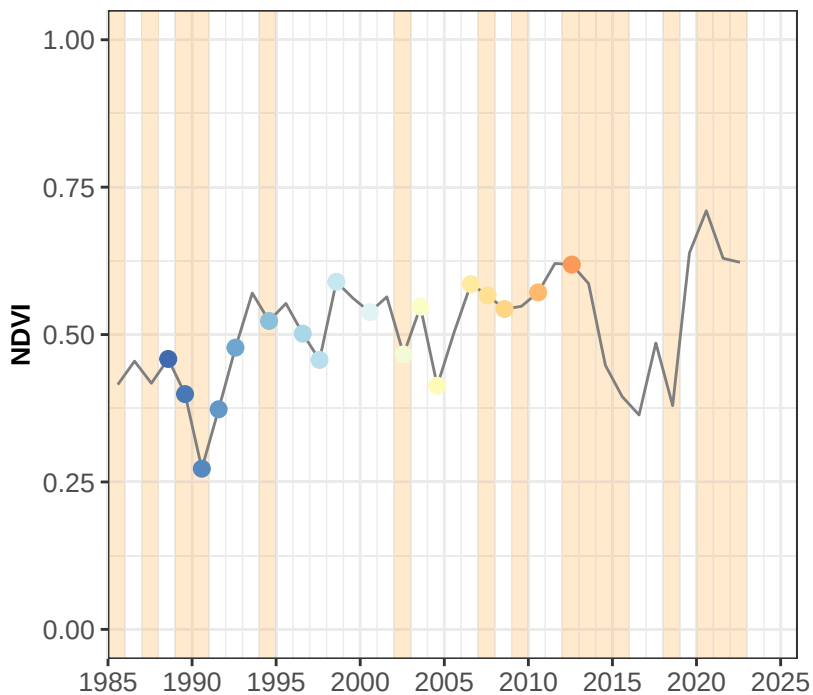


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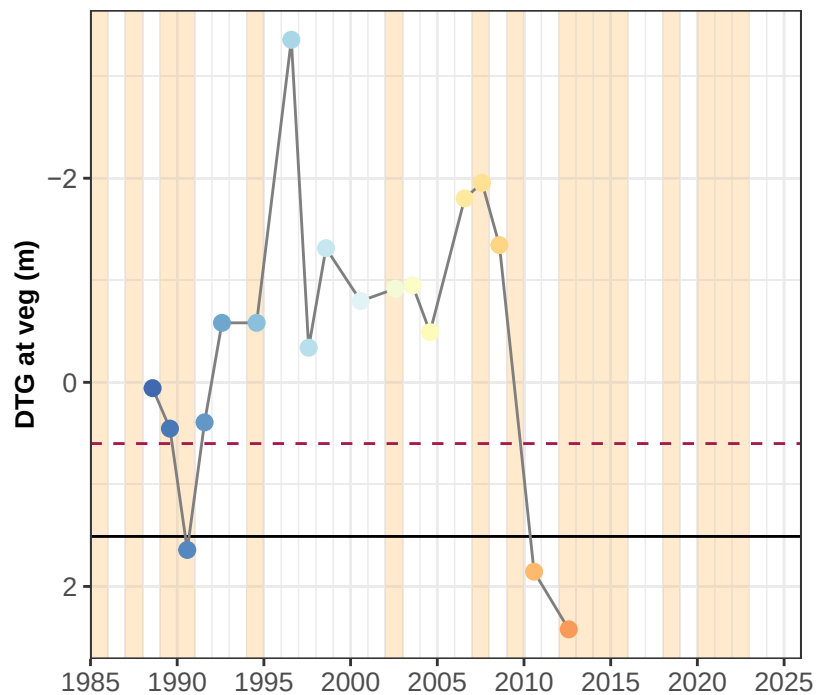


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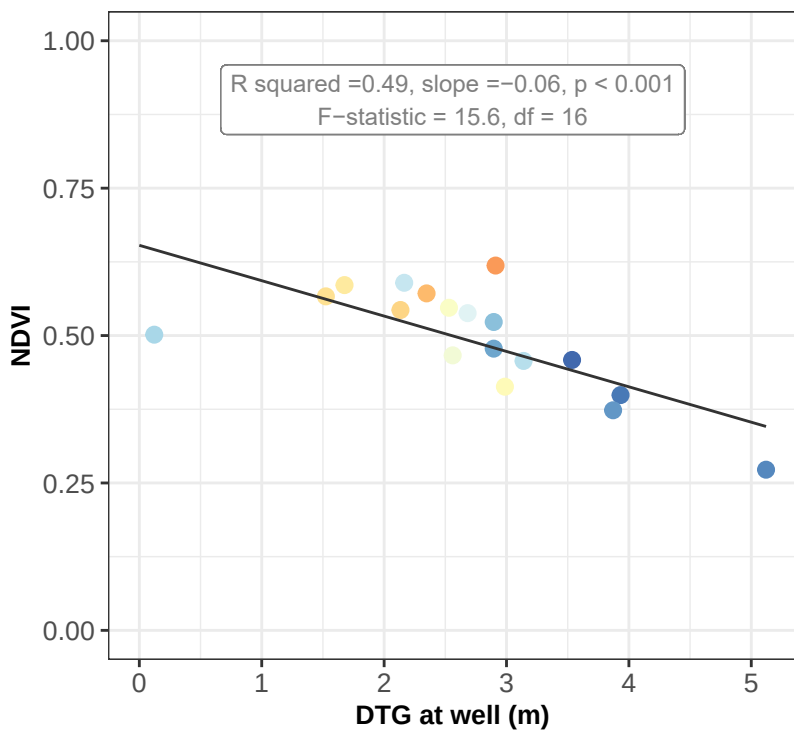
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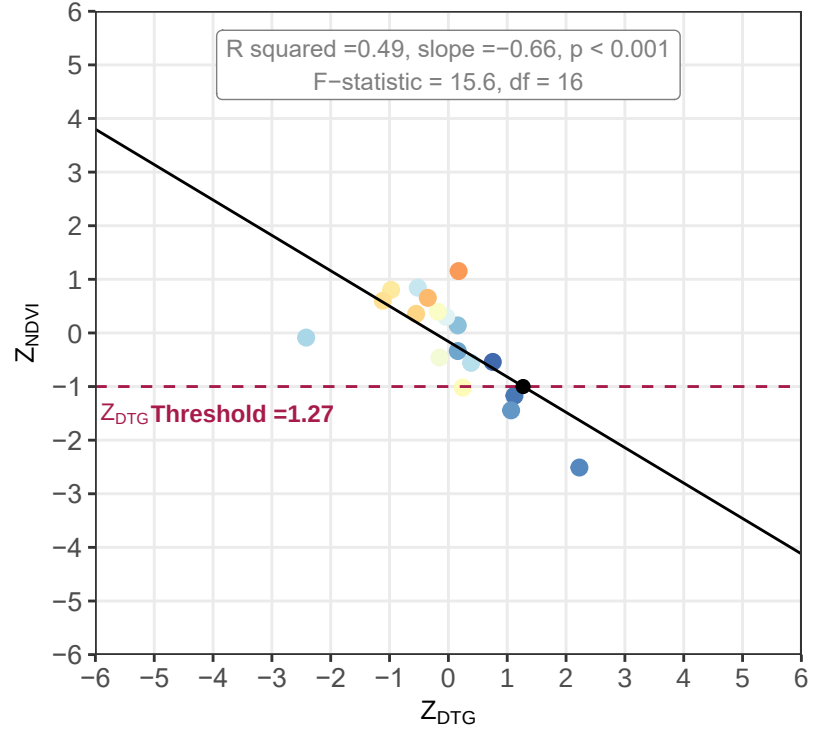
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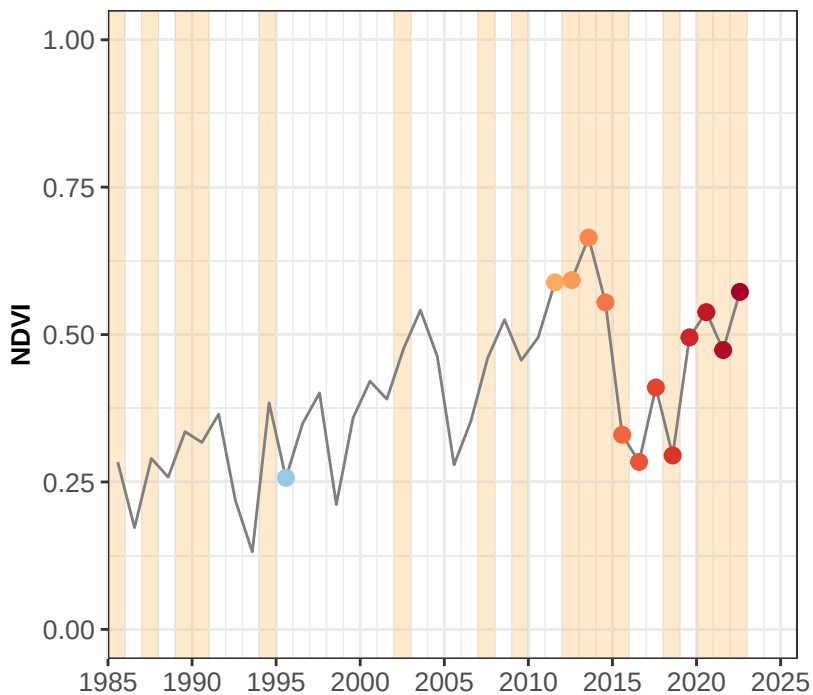


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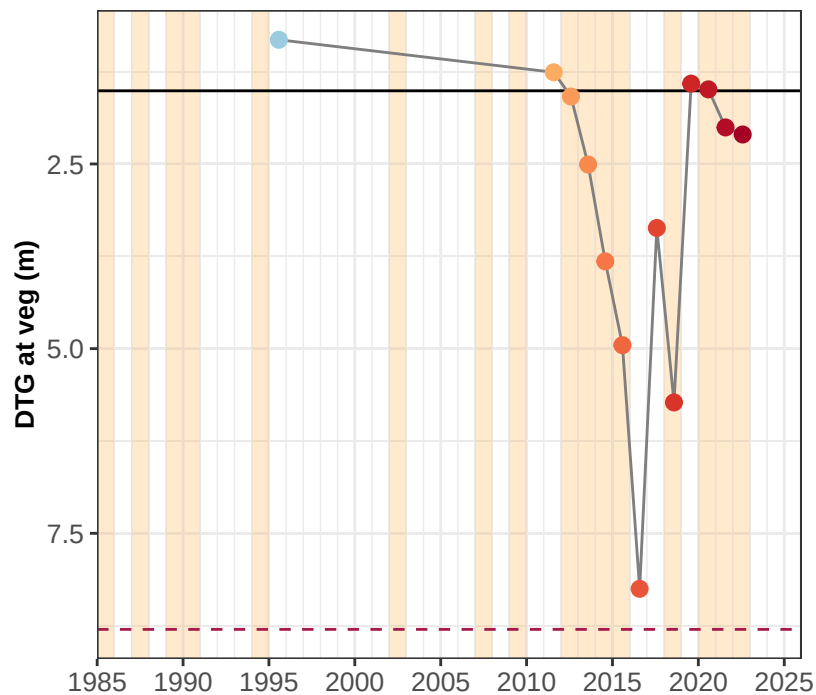


Salix (gdeID: 112220)

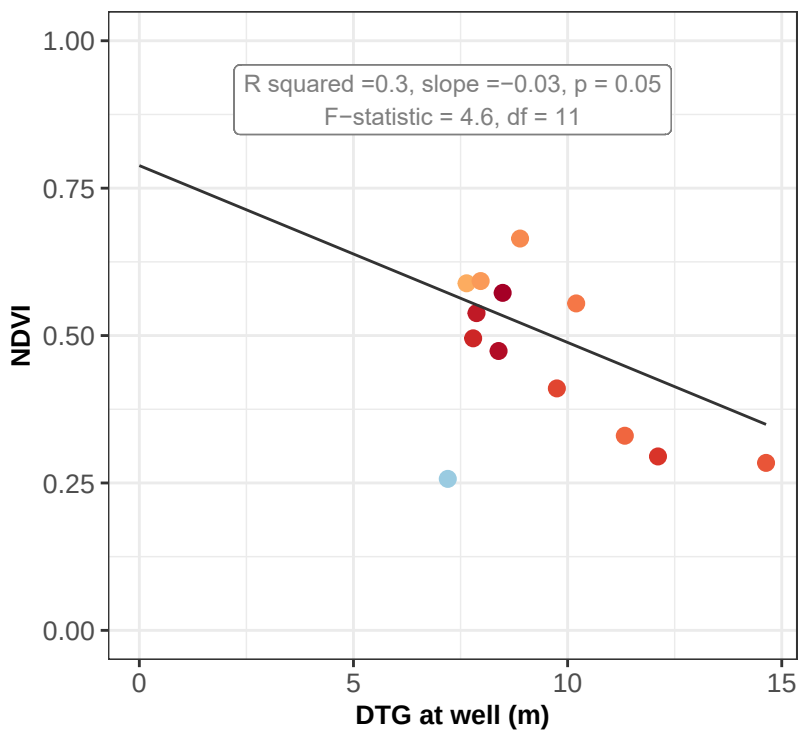
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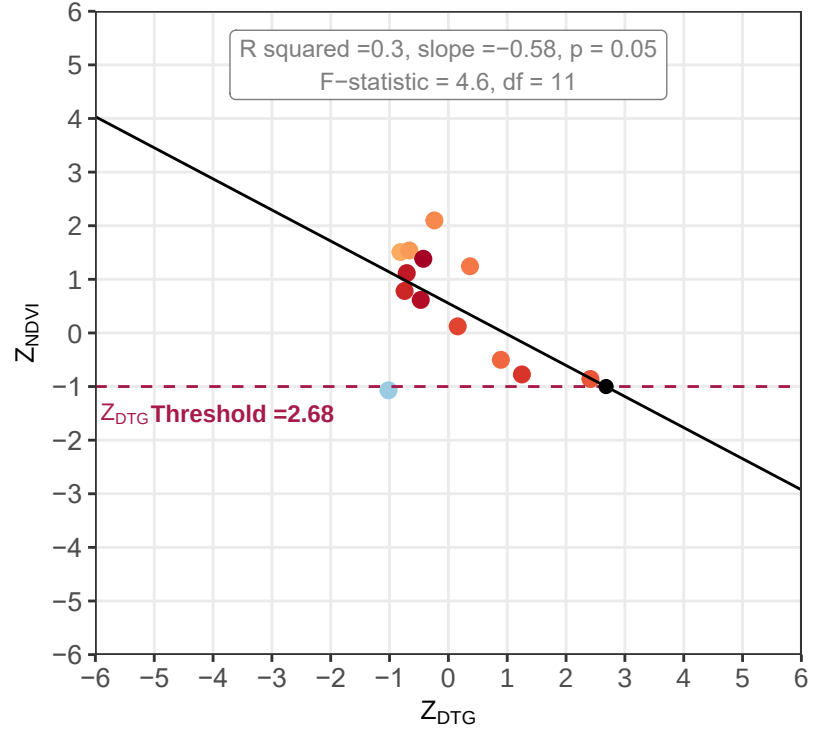
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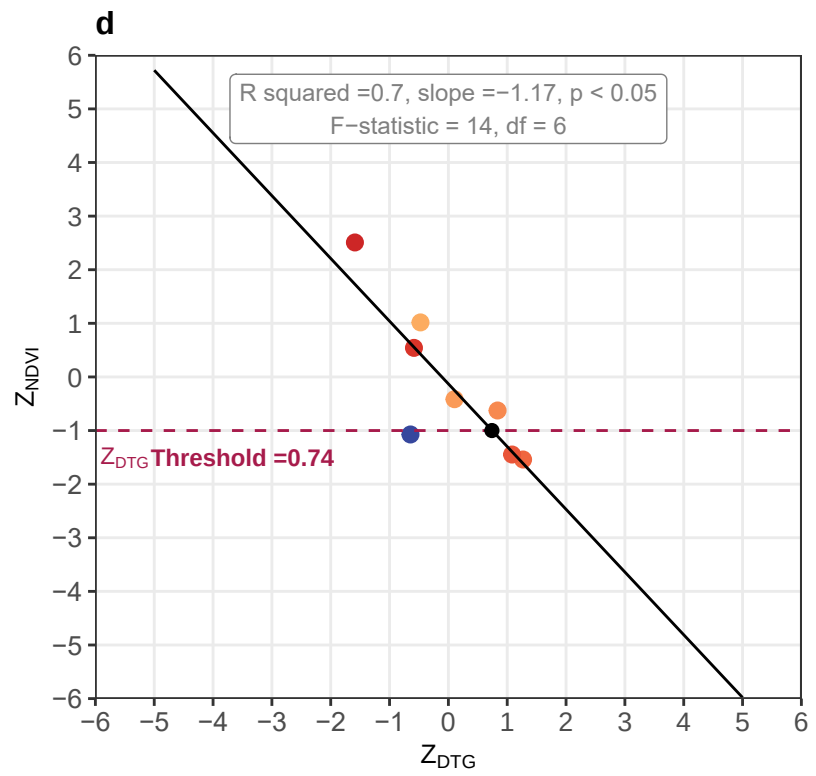
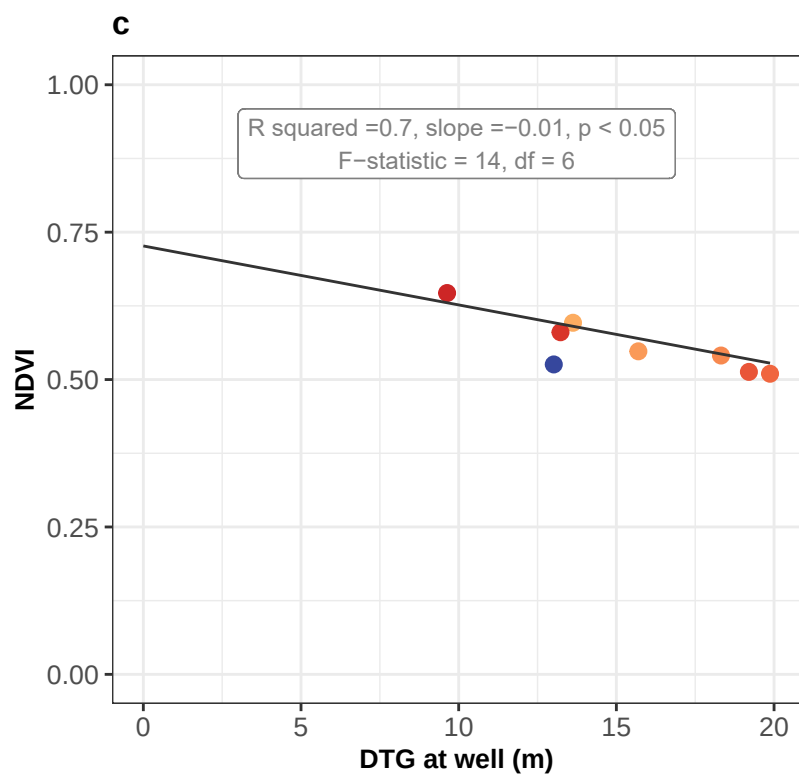
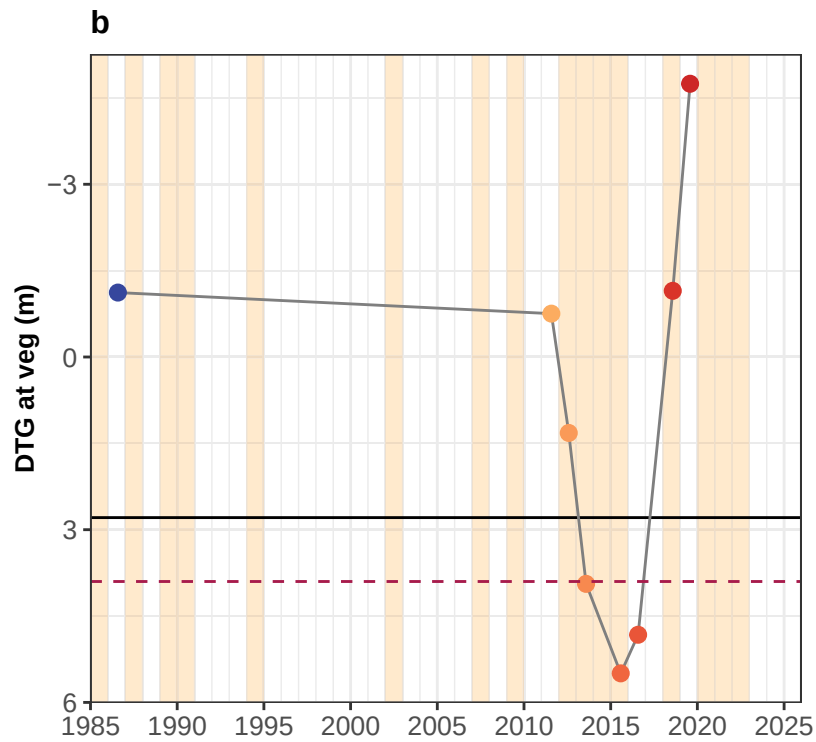
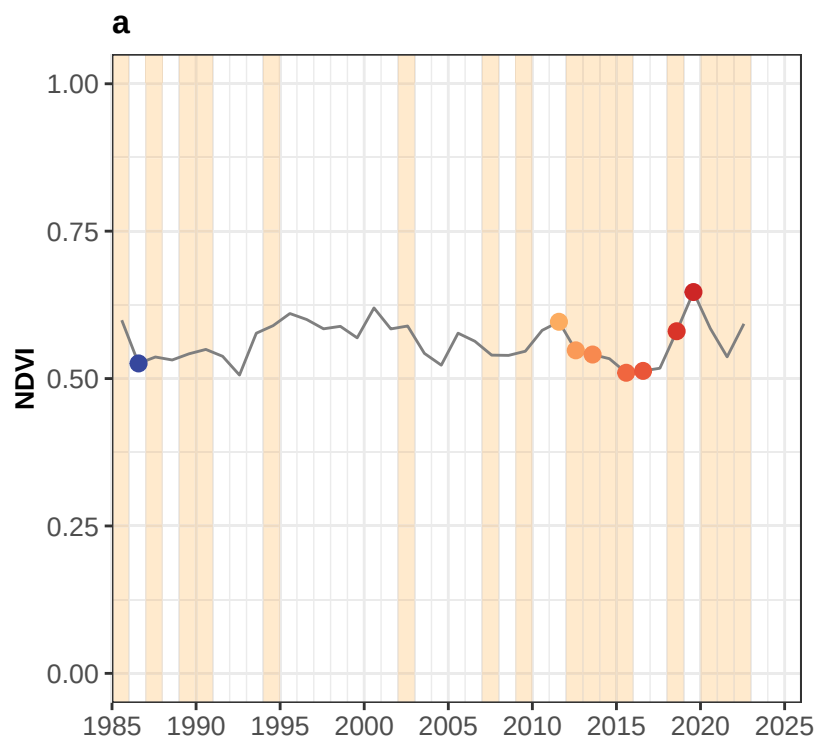
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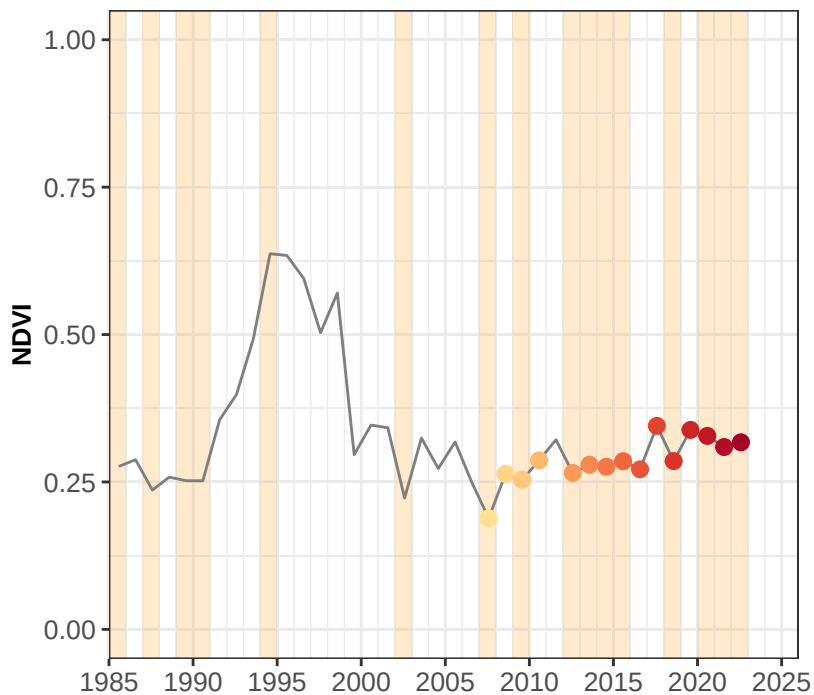


Populus (gdeID: 11229)

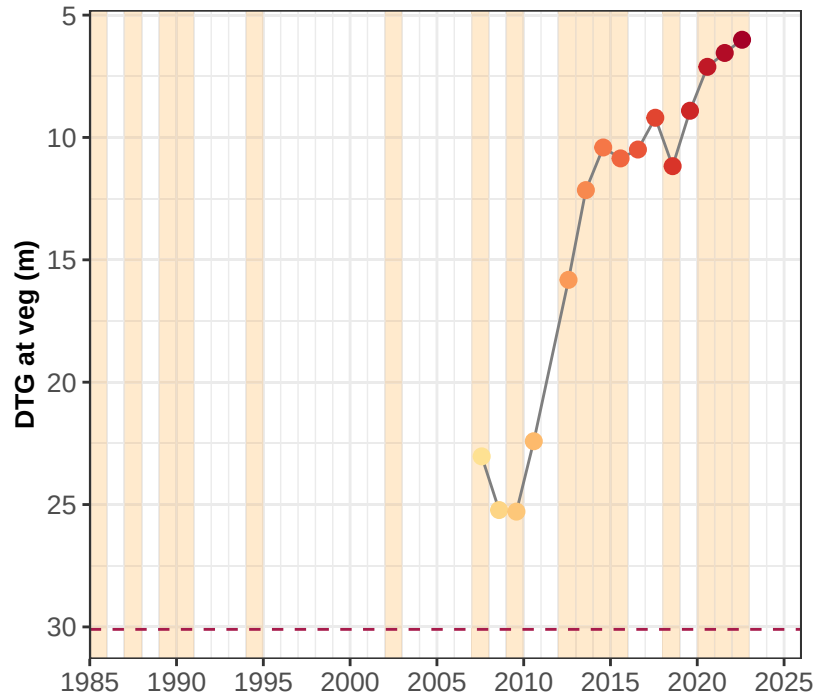


(gdeID: 112655)

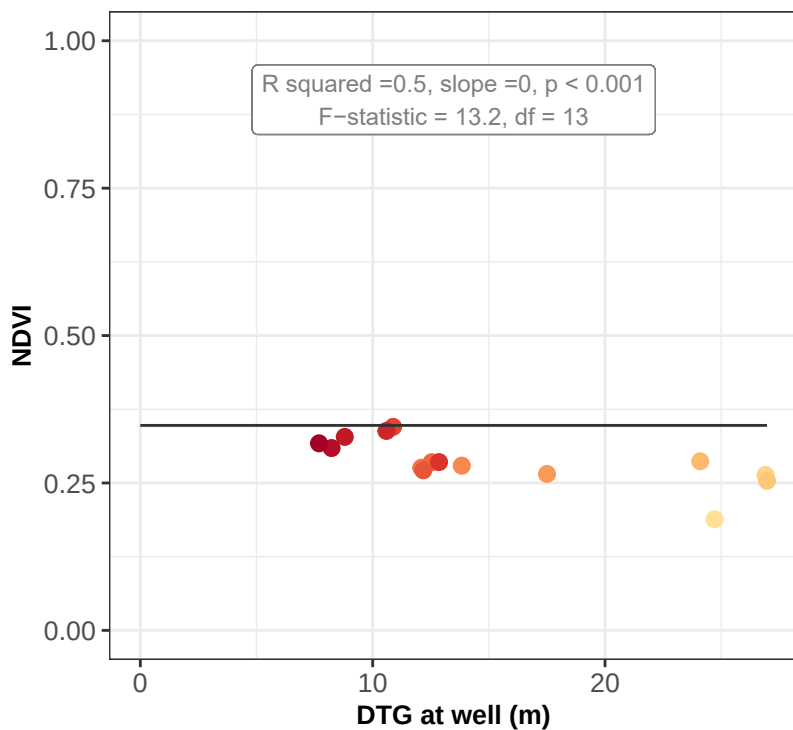
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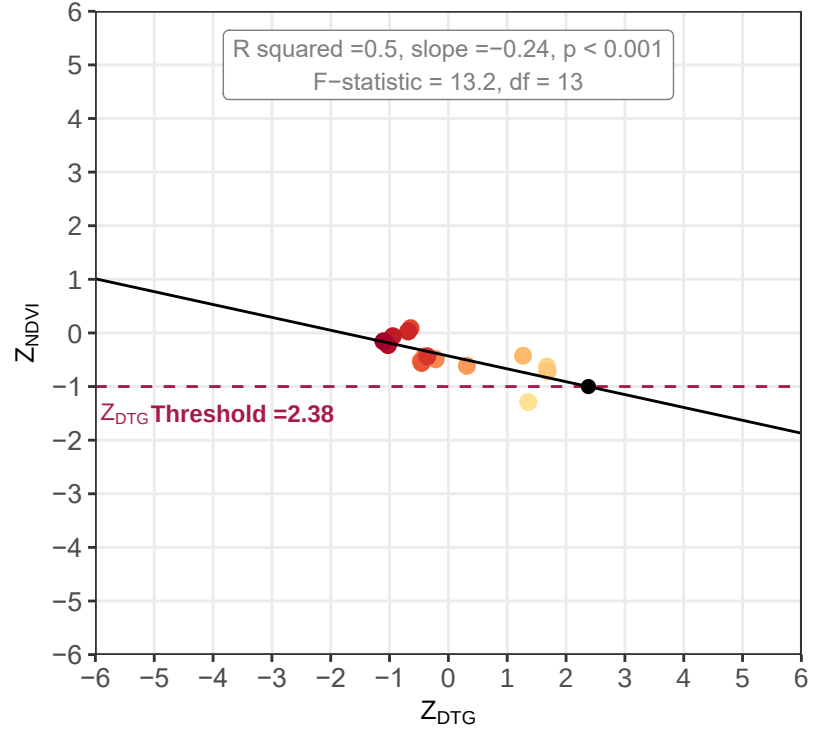
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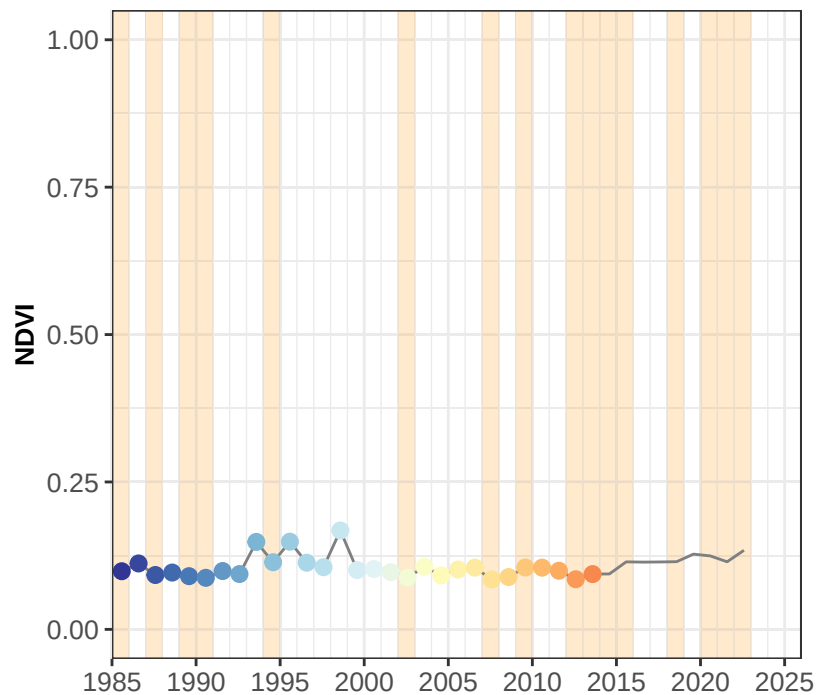


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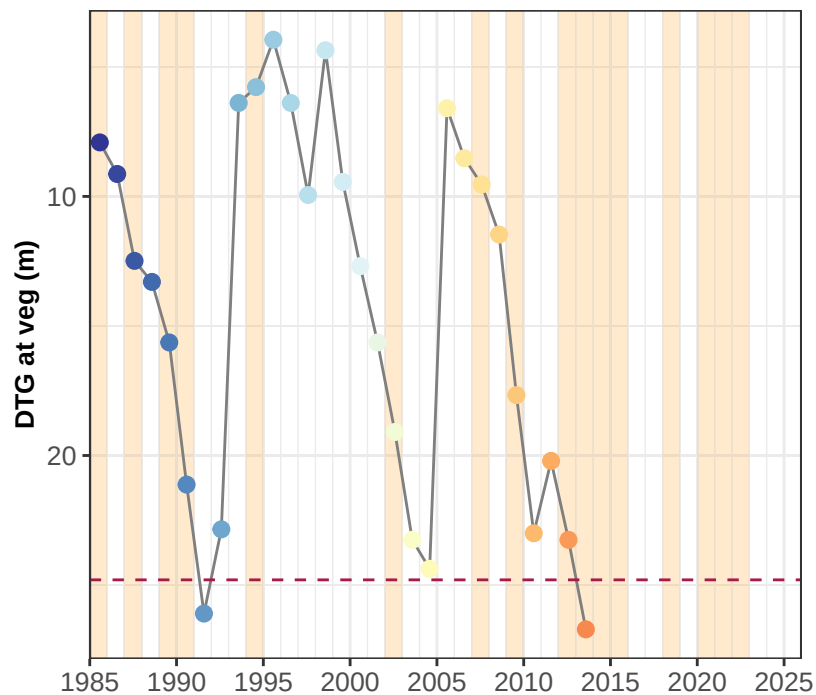


Lepidospartum (gdeID: 113112)

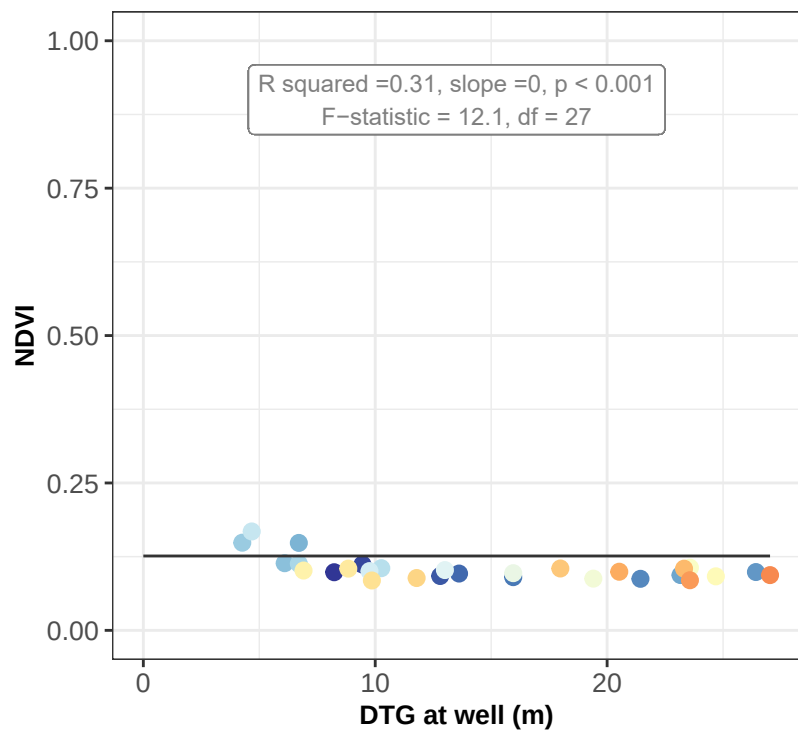
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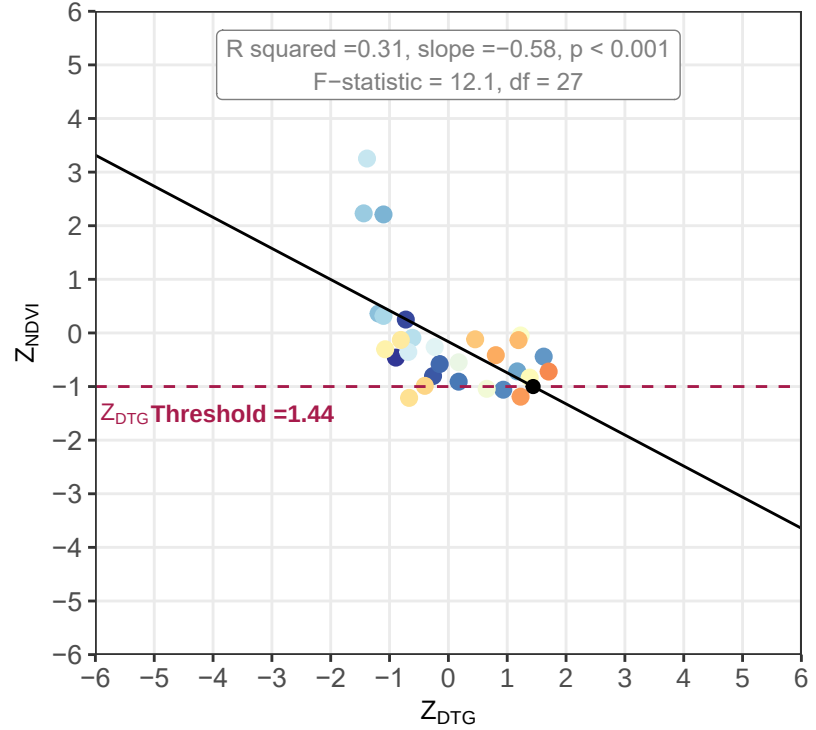
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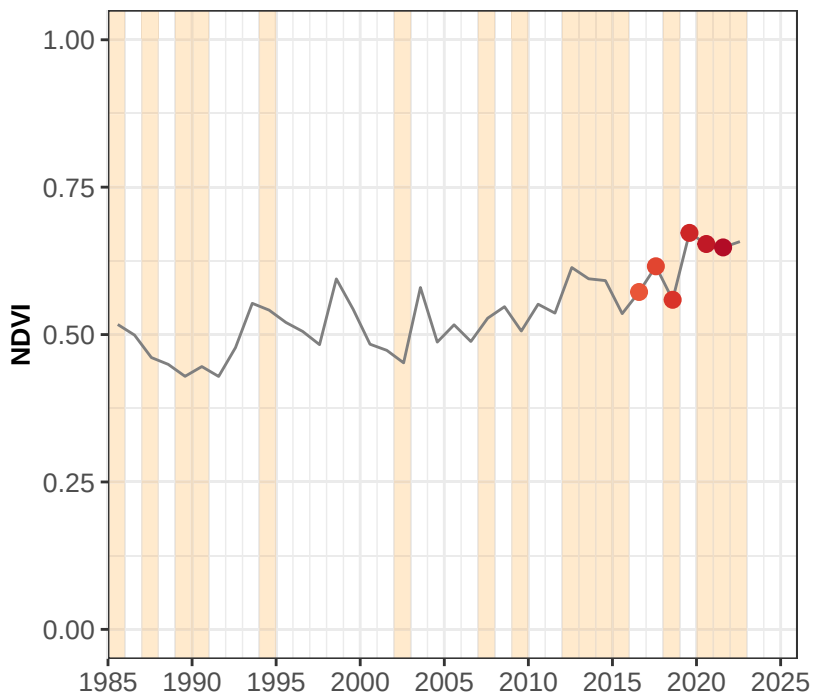


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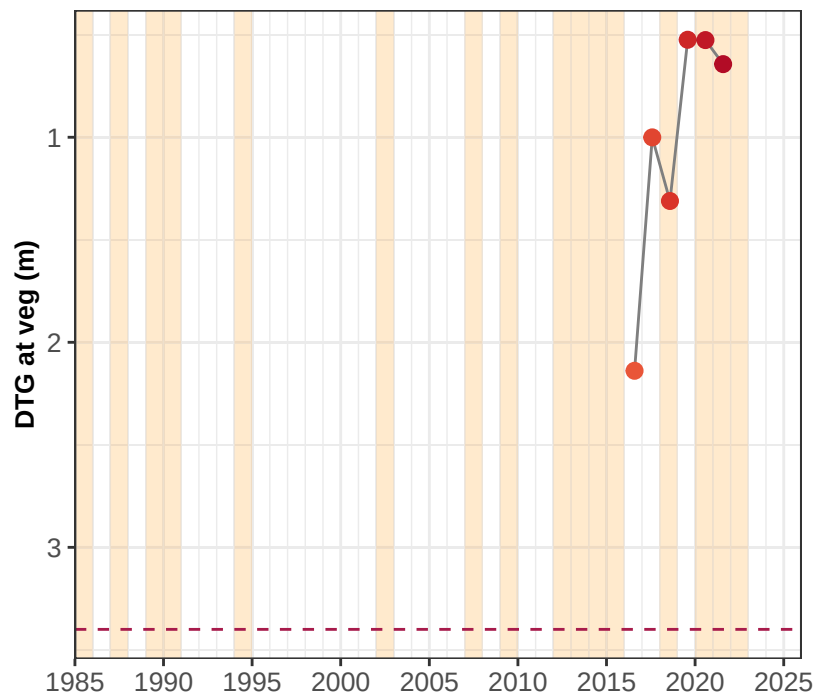


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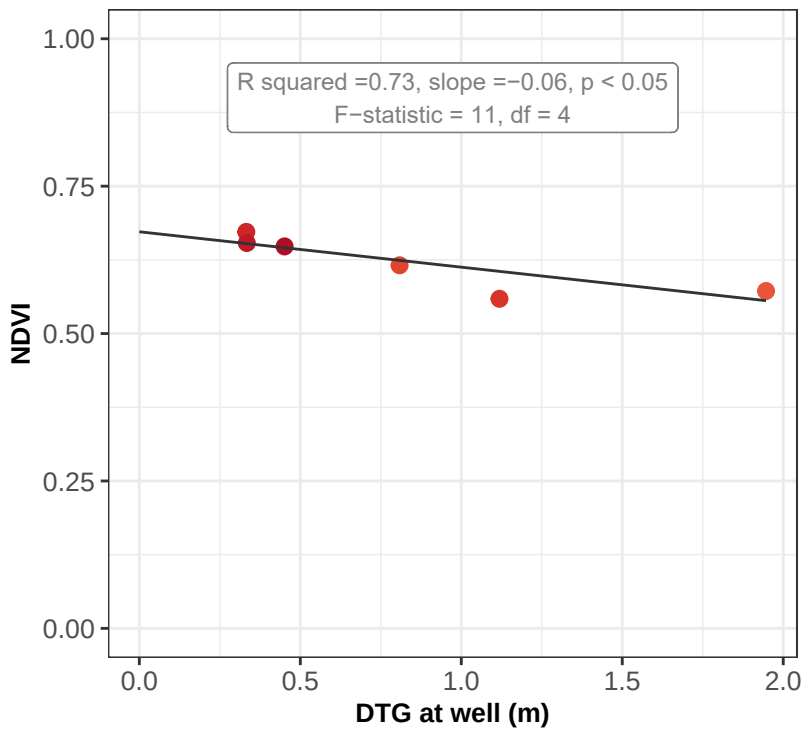
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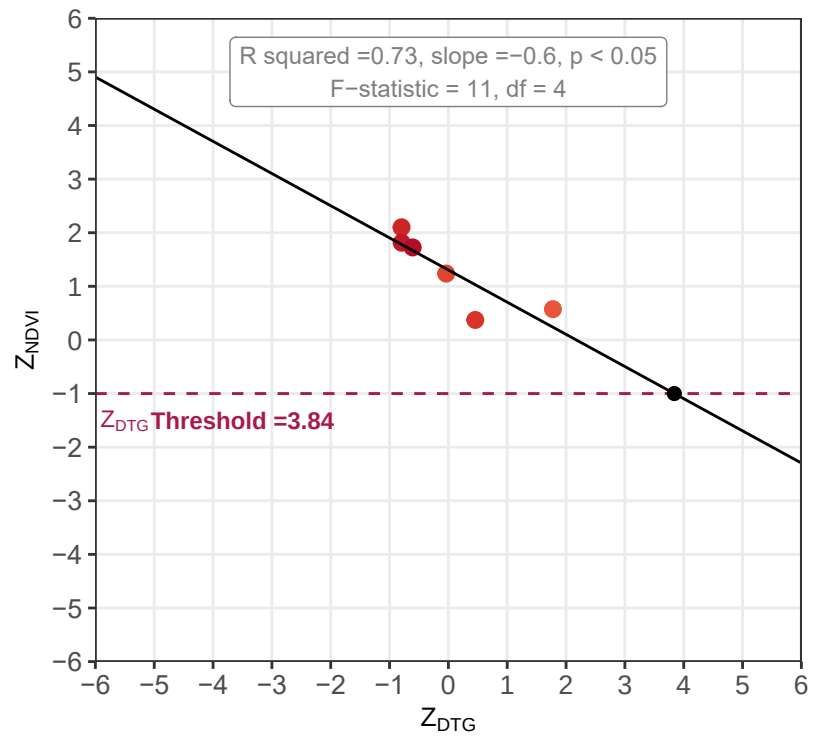
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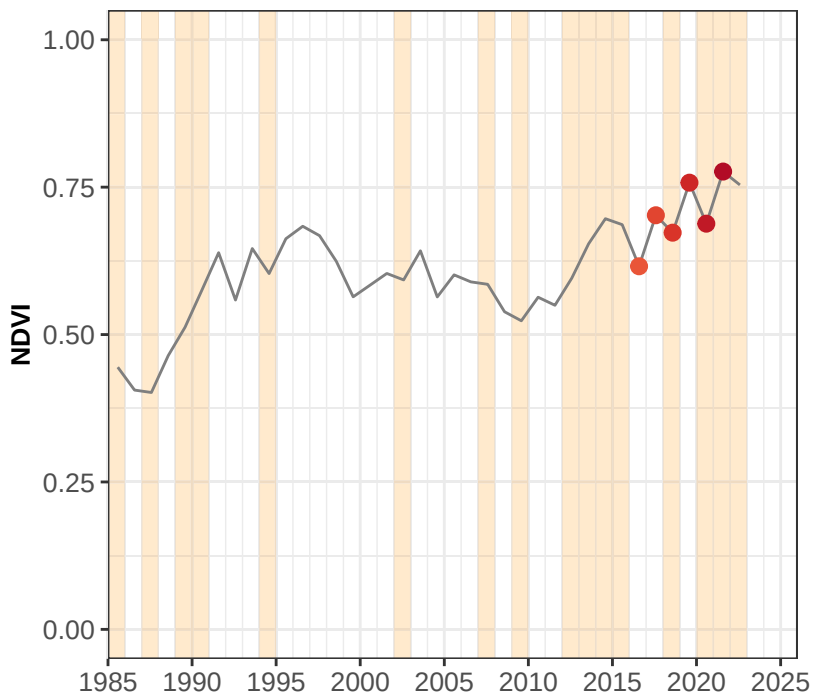


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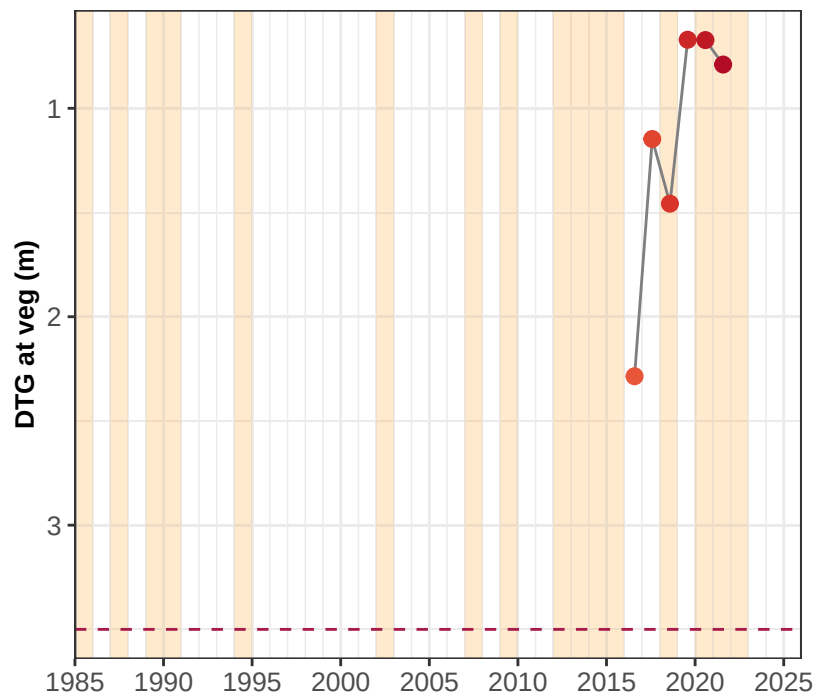


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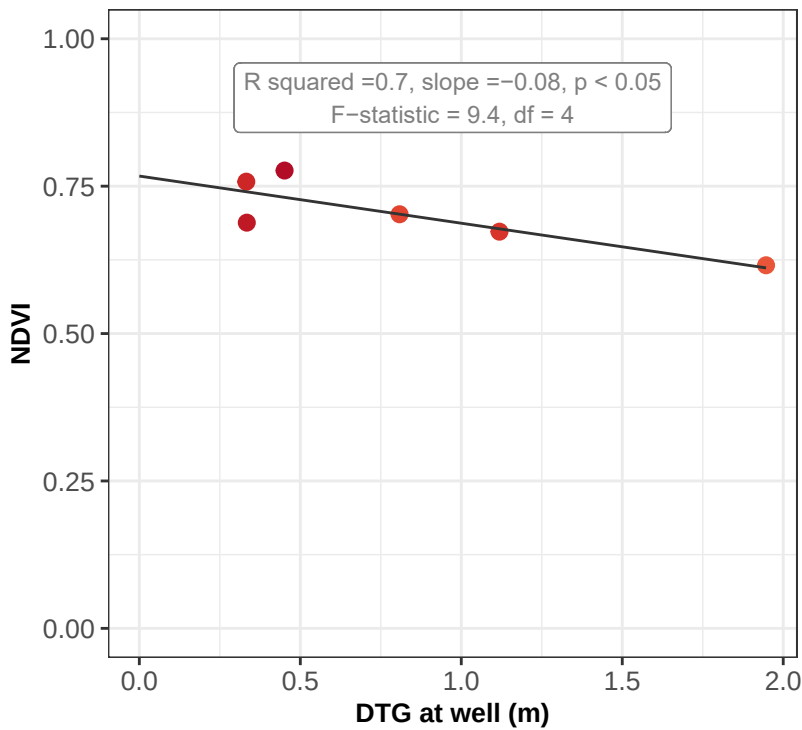
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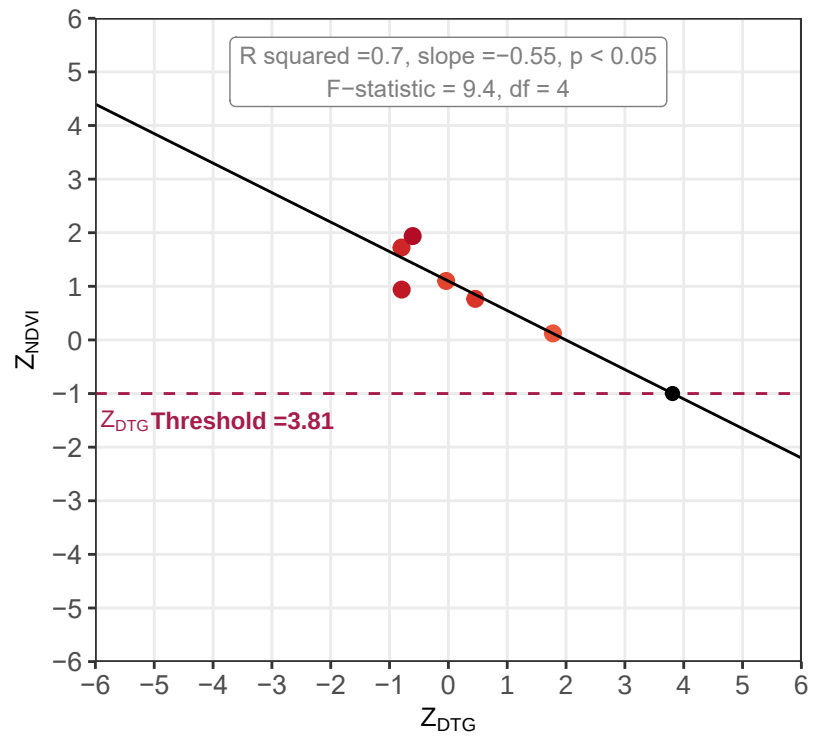
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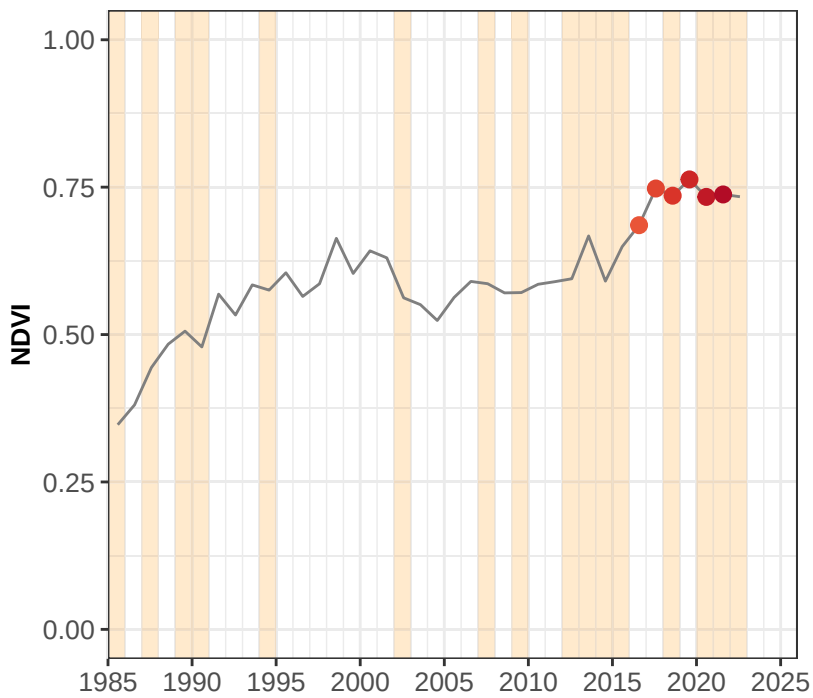


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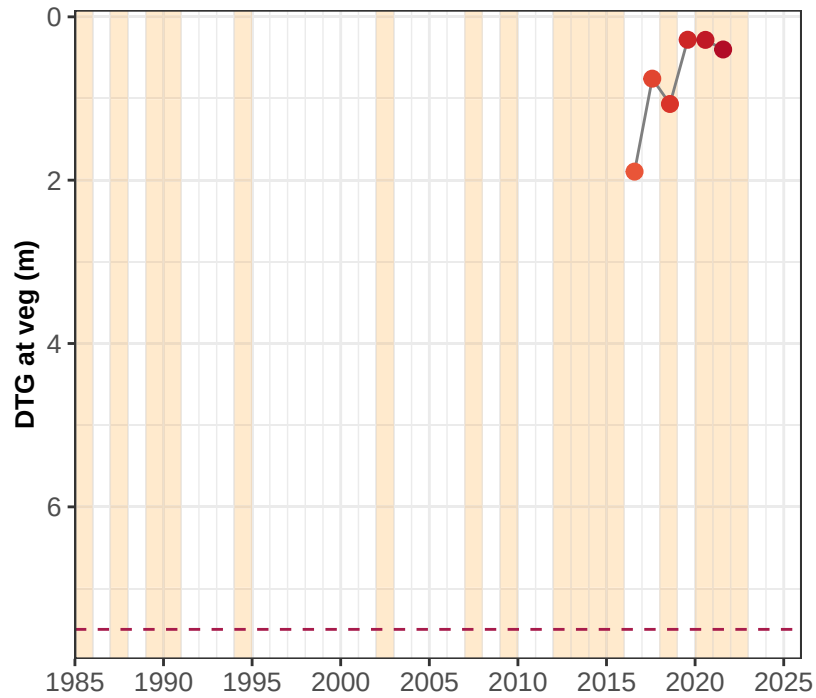


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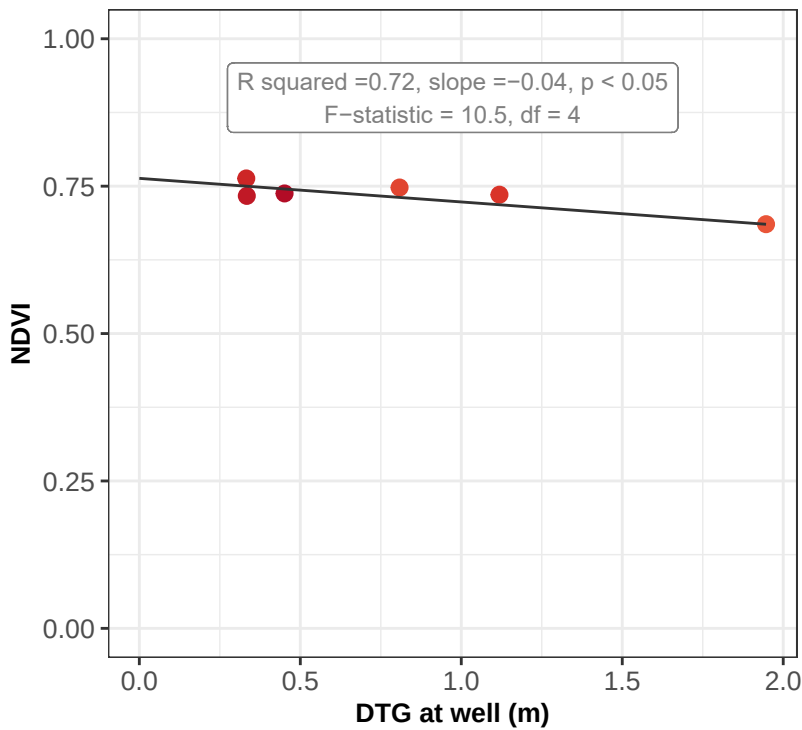
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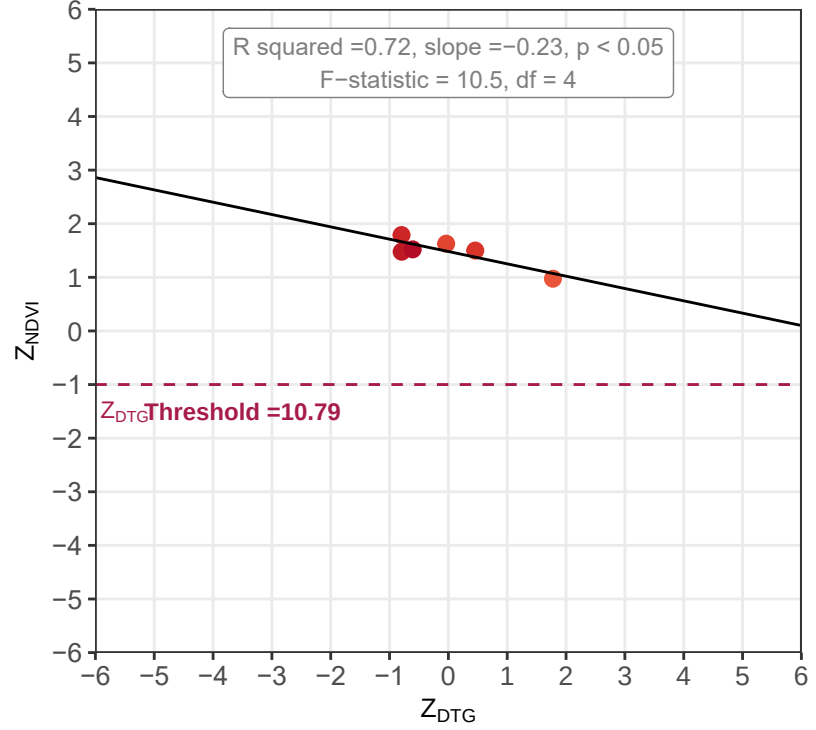
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c

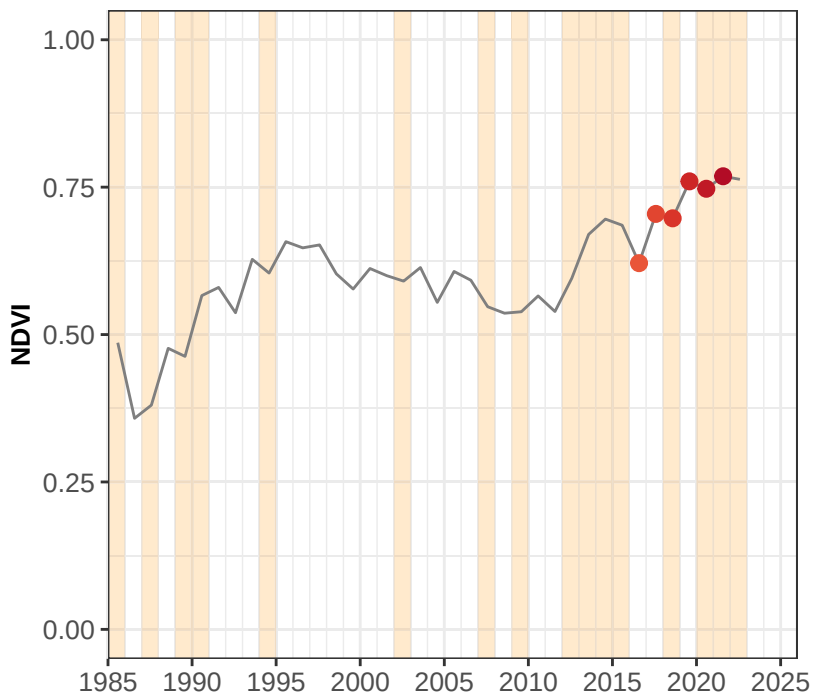


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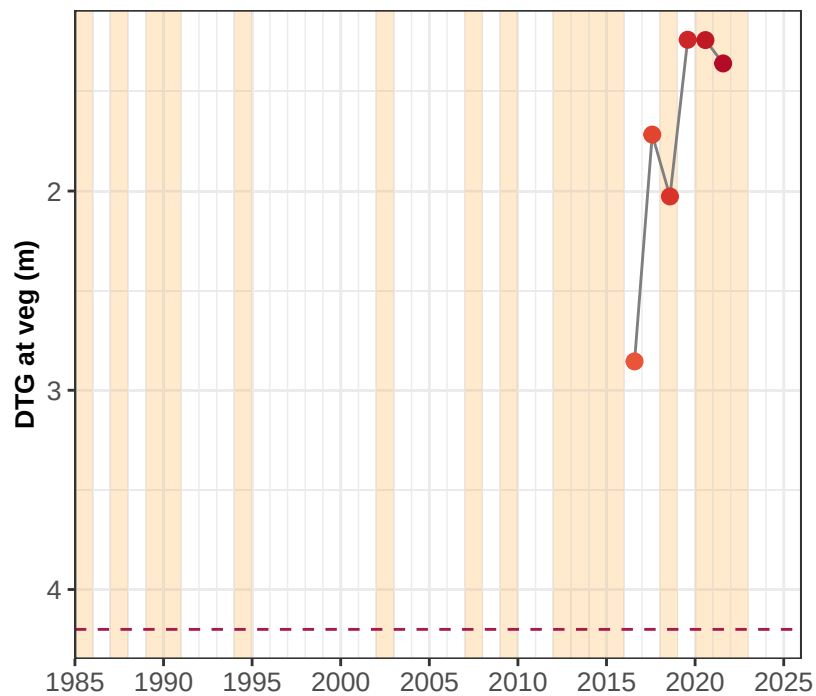


Scirpus (gdeID: 113694)

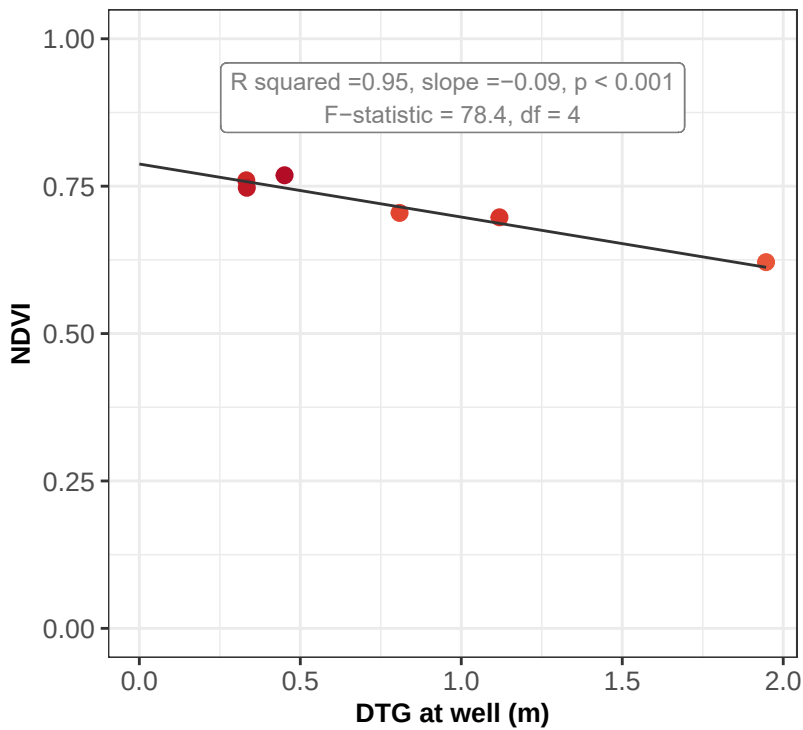
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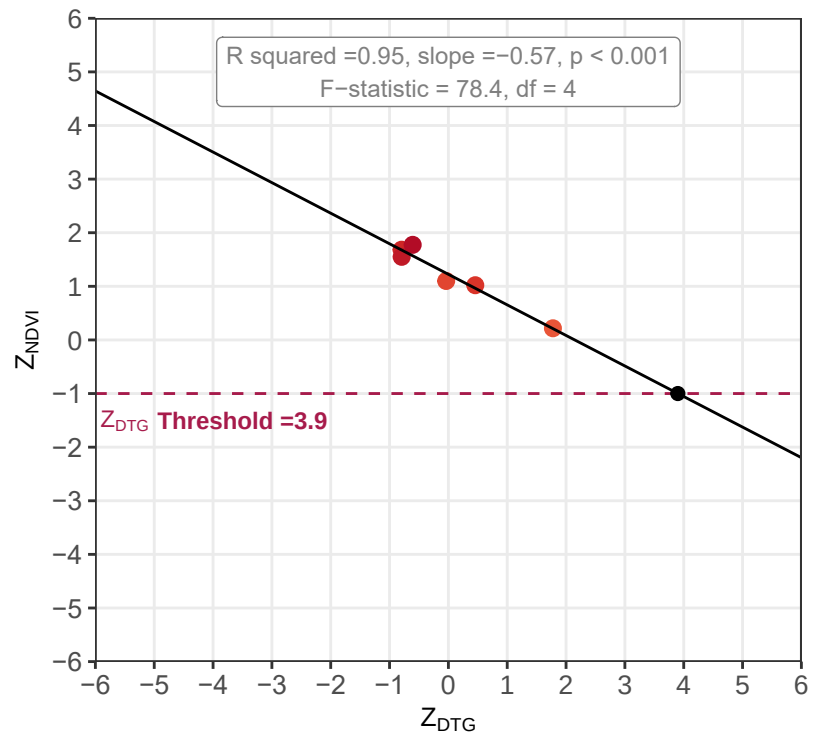
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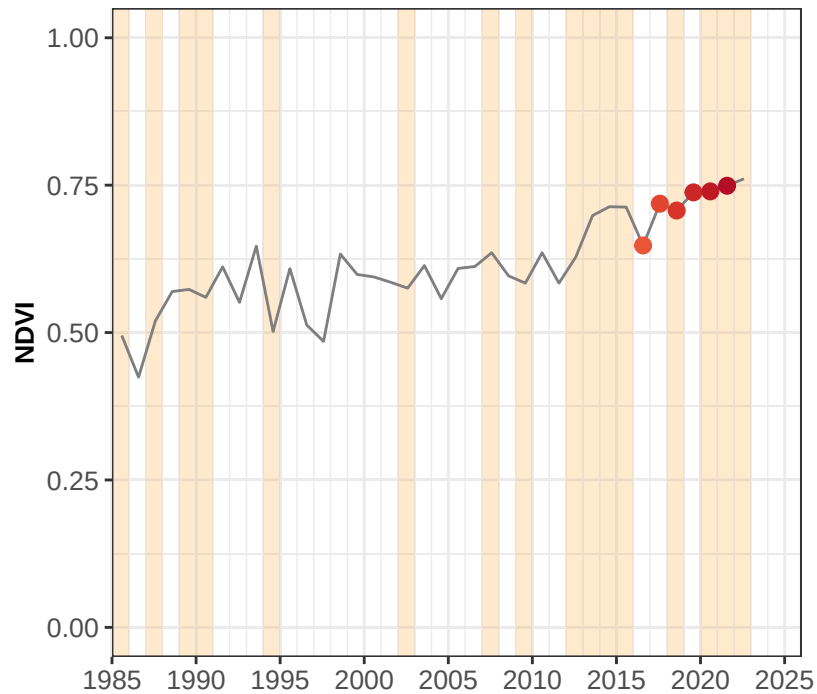


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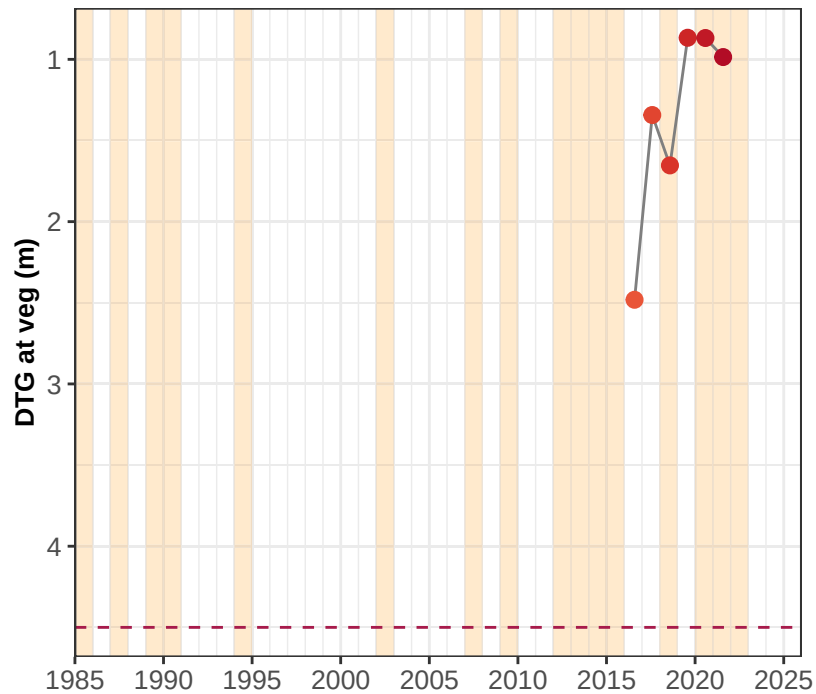


Scirpus (gdeID: 113697)

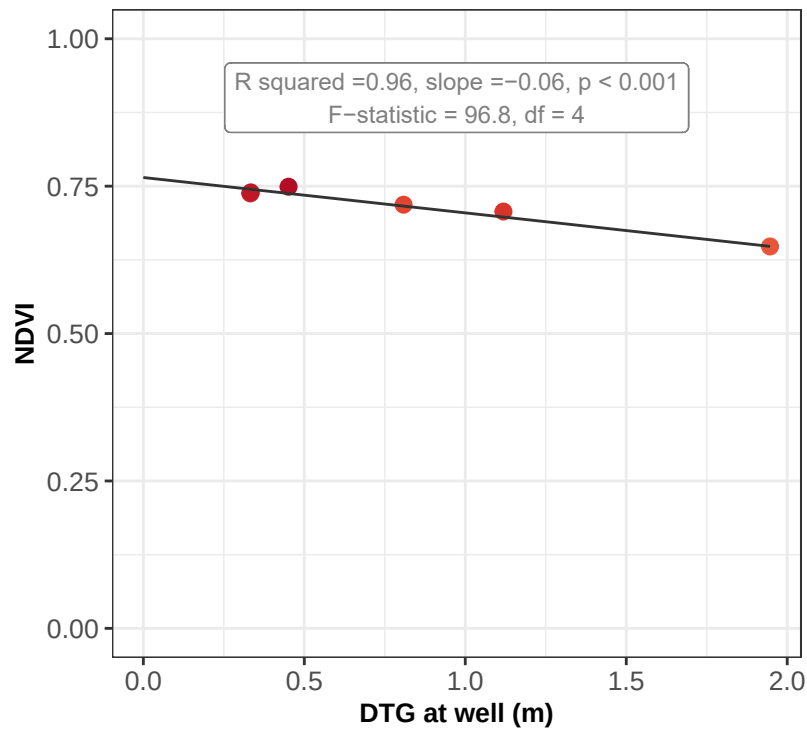
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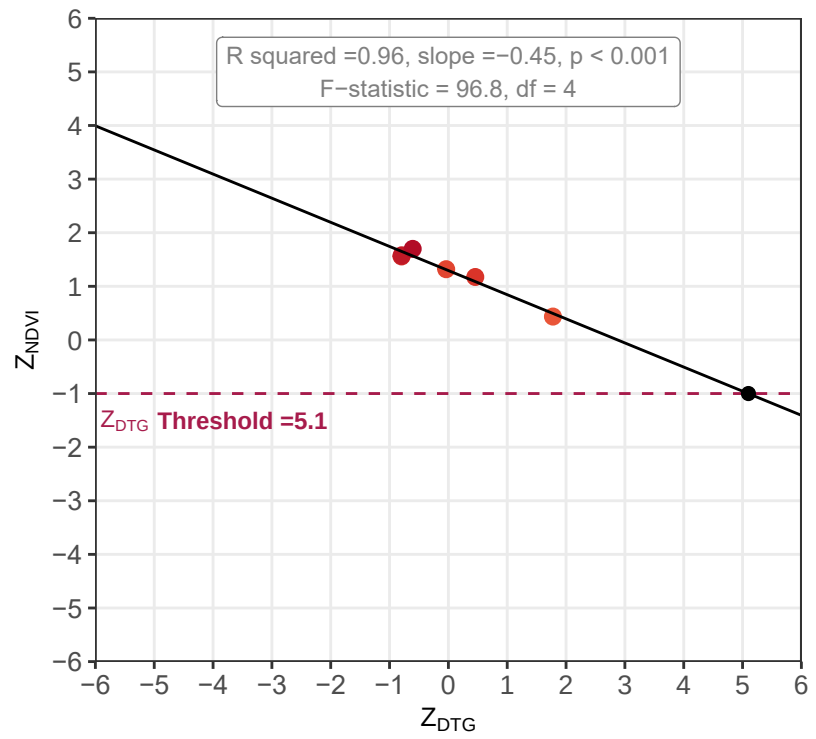
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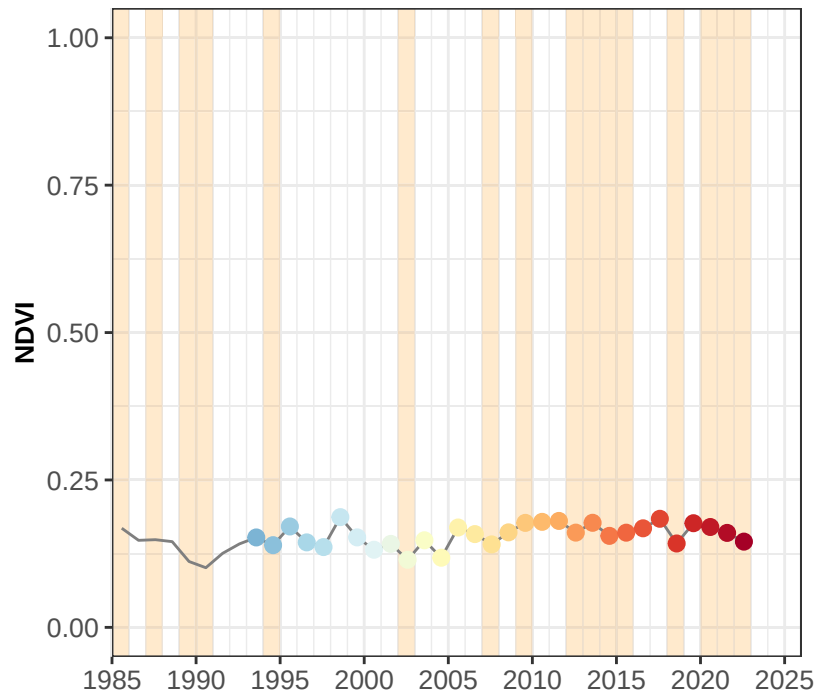


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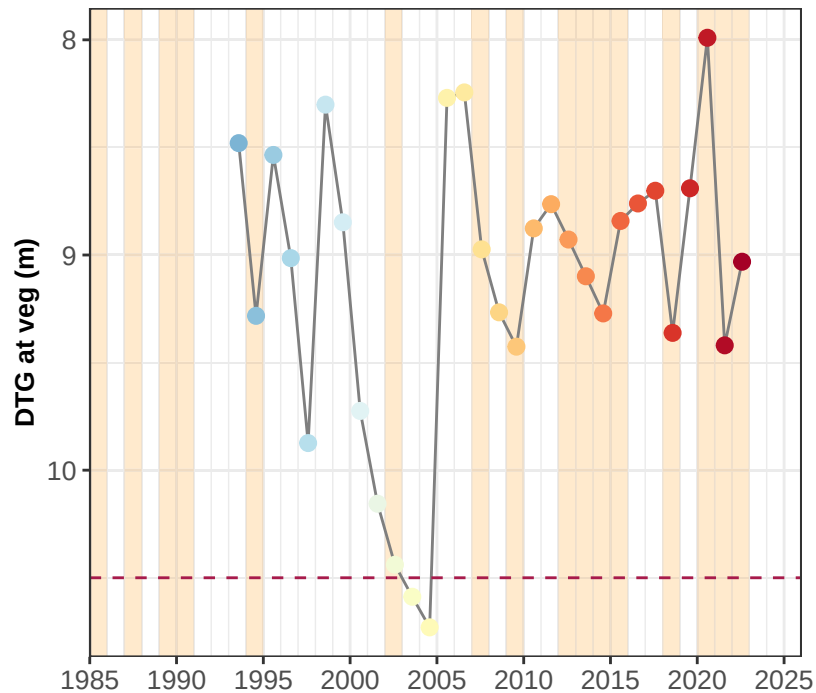


(gdeID: 114143)

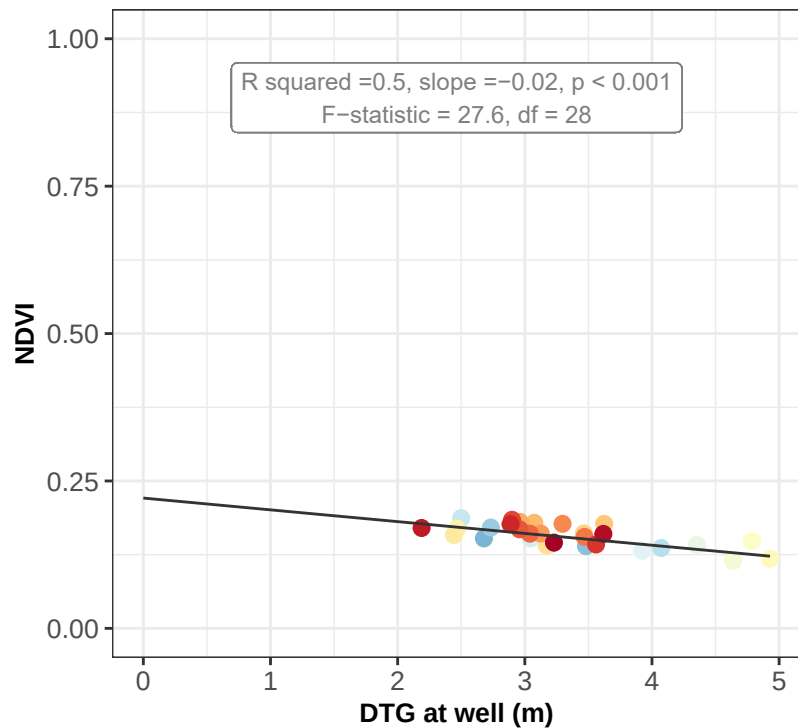
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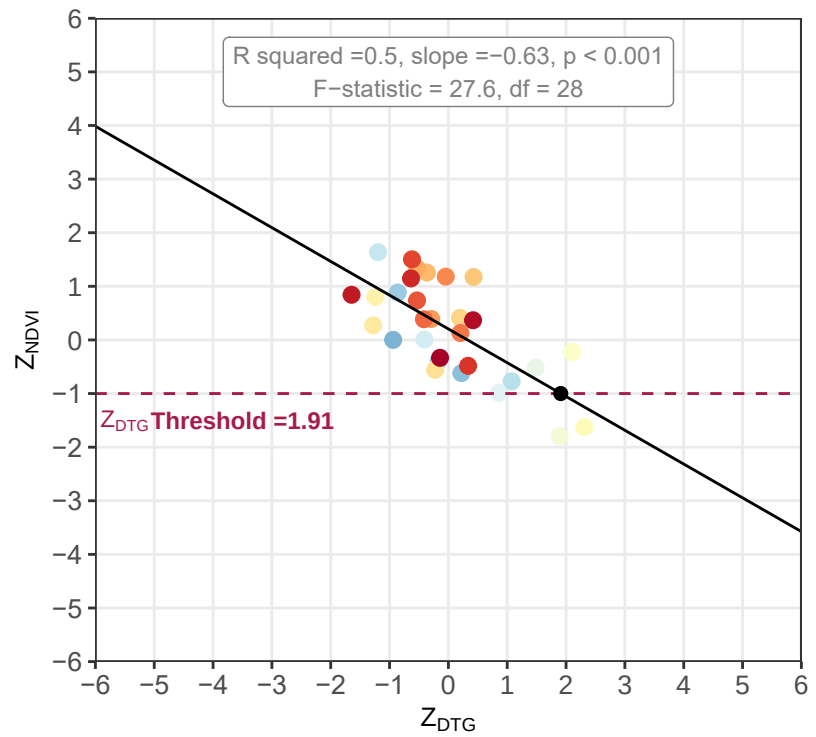
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c

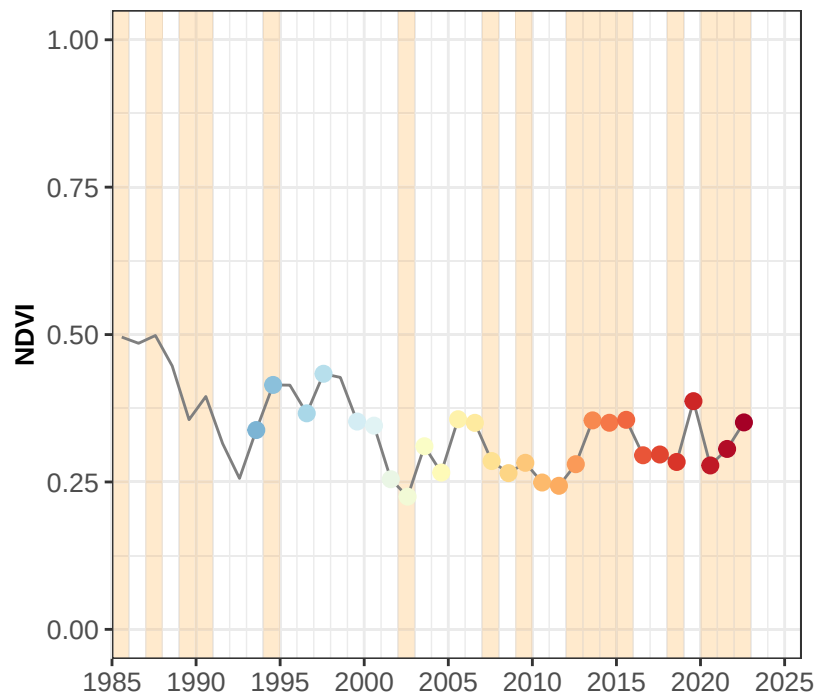


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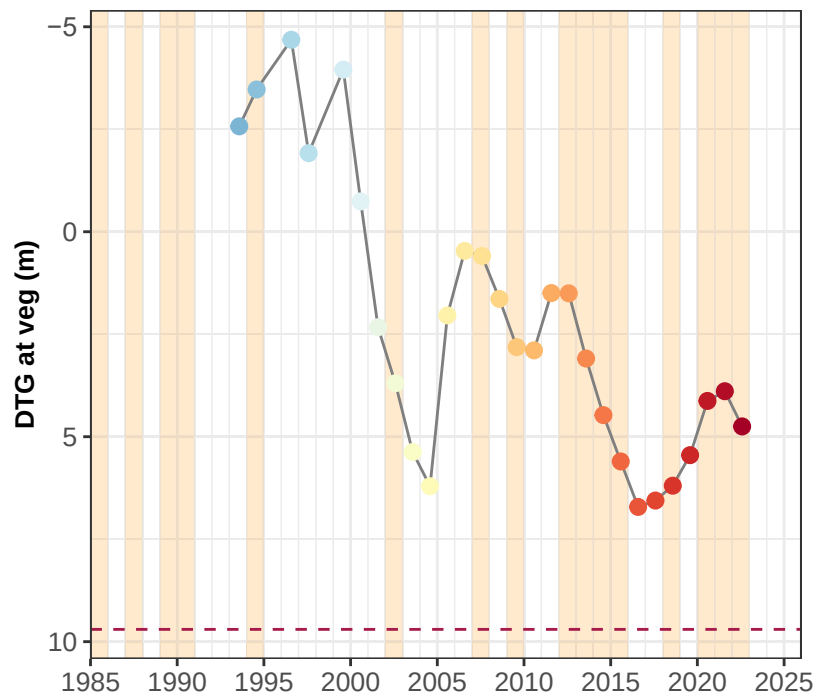


Flooded Veg (gdeID: 114573)

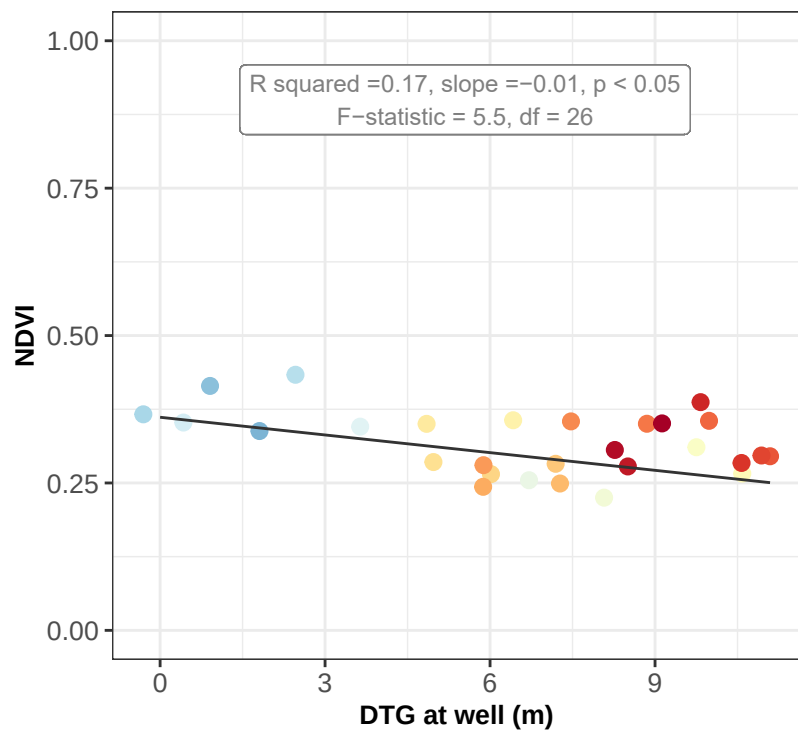
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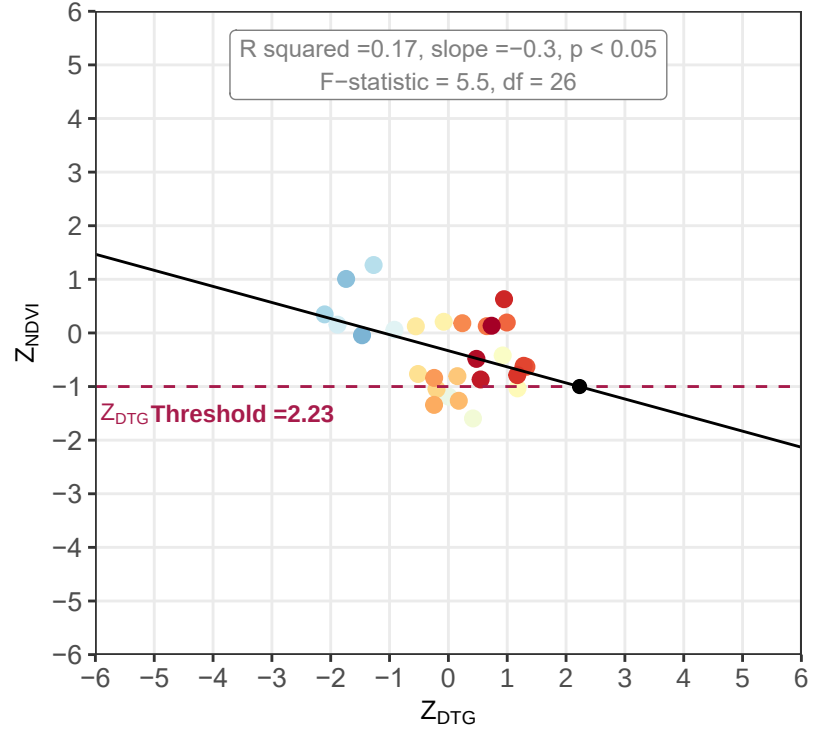
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c

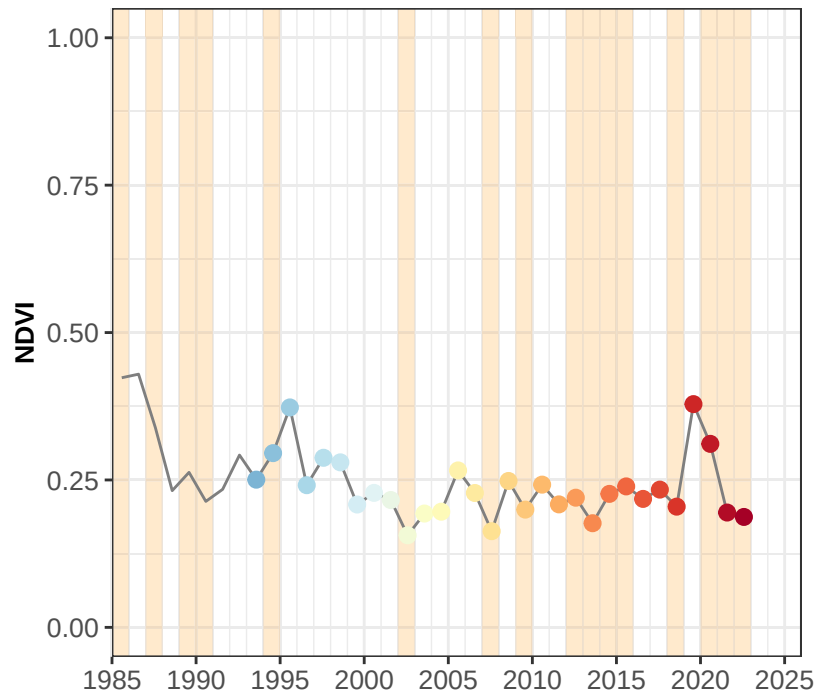


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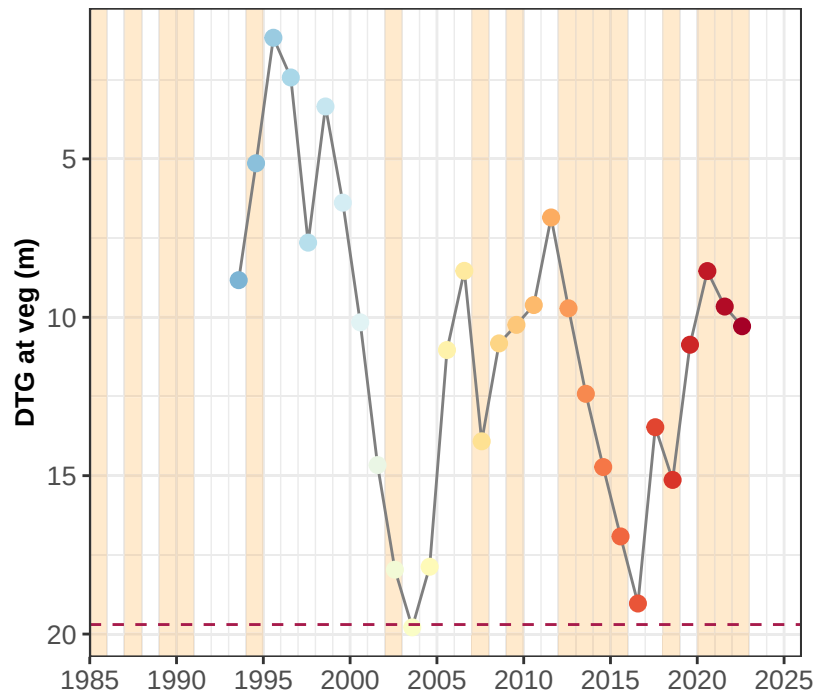


Flooded Veg (gdeID: 114578)

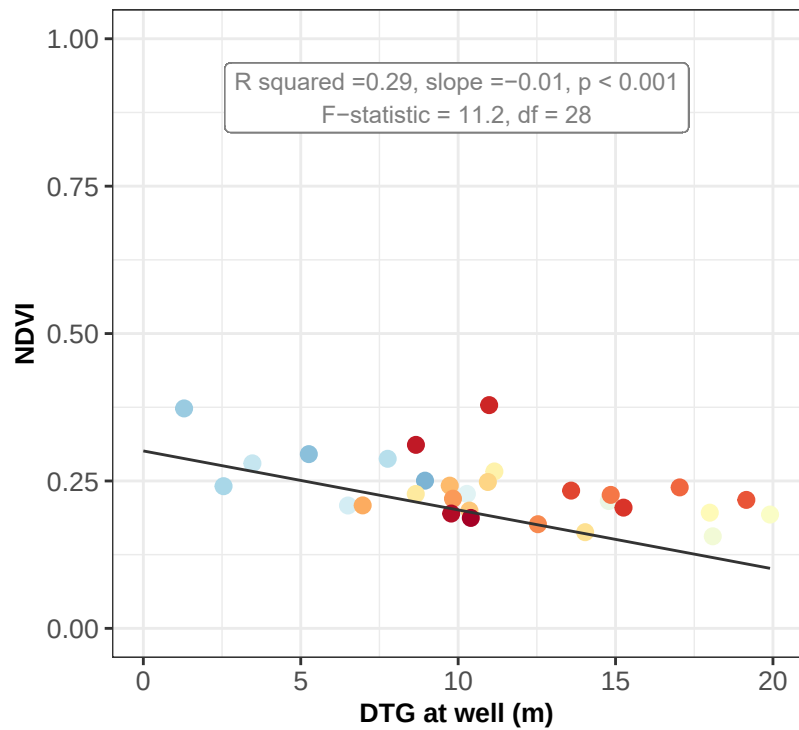
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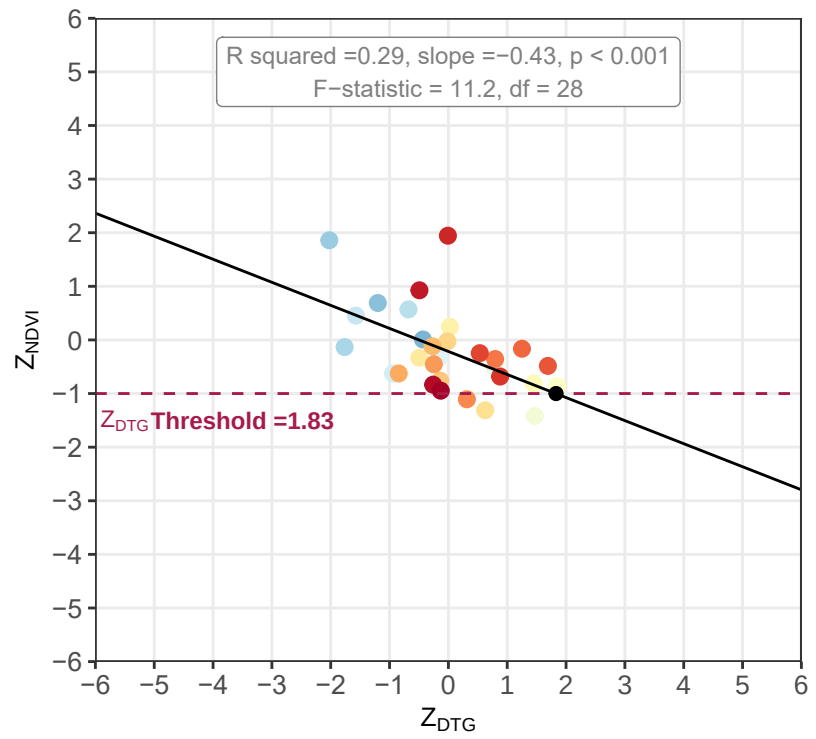
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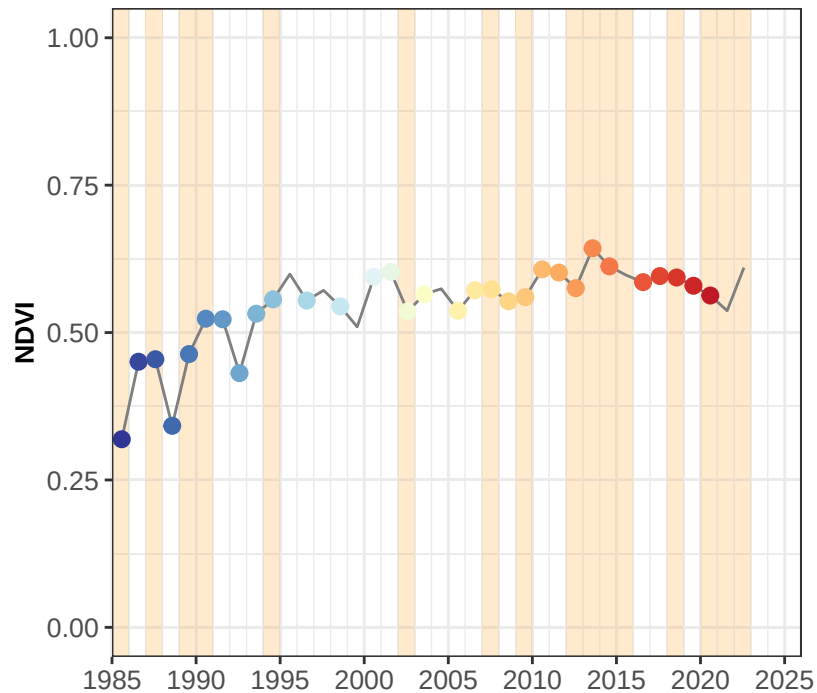


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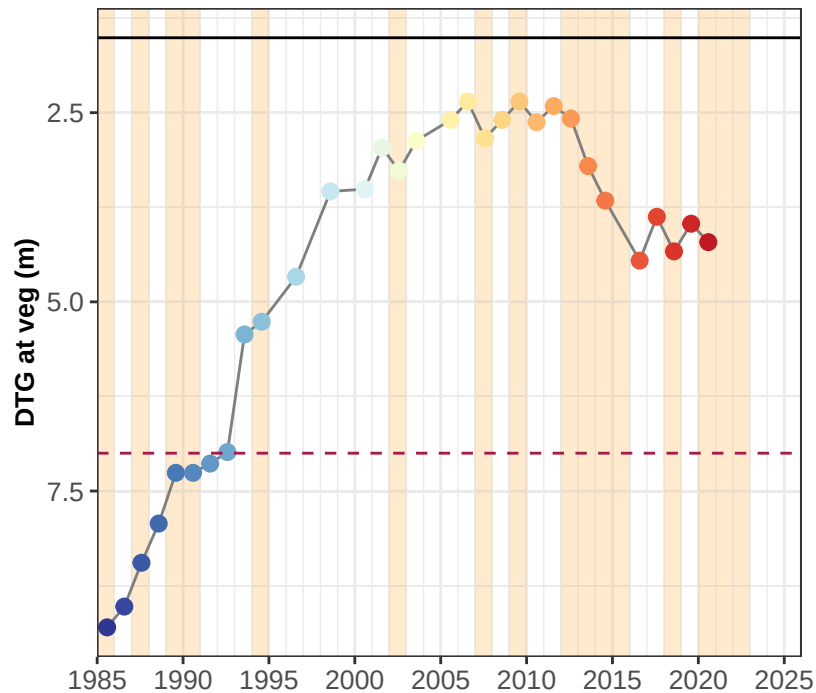


Salix (gdeID: 114723)

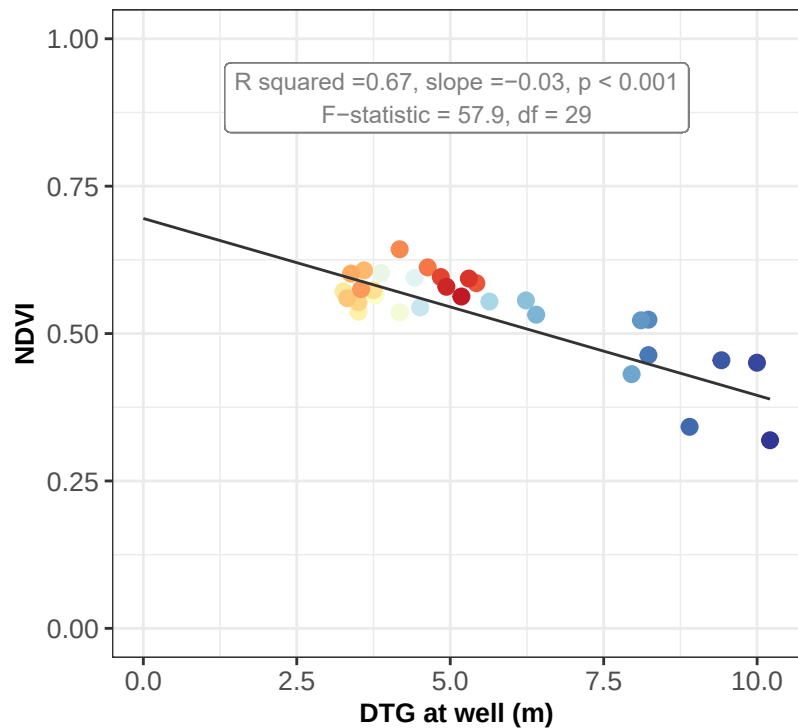
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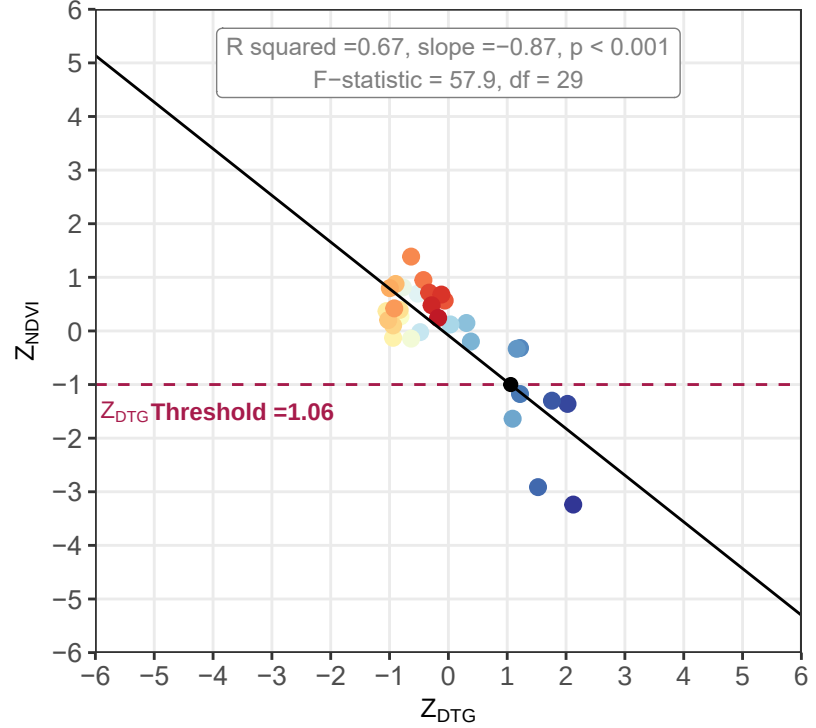
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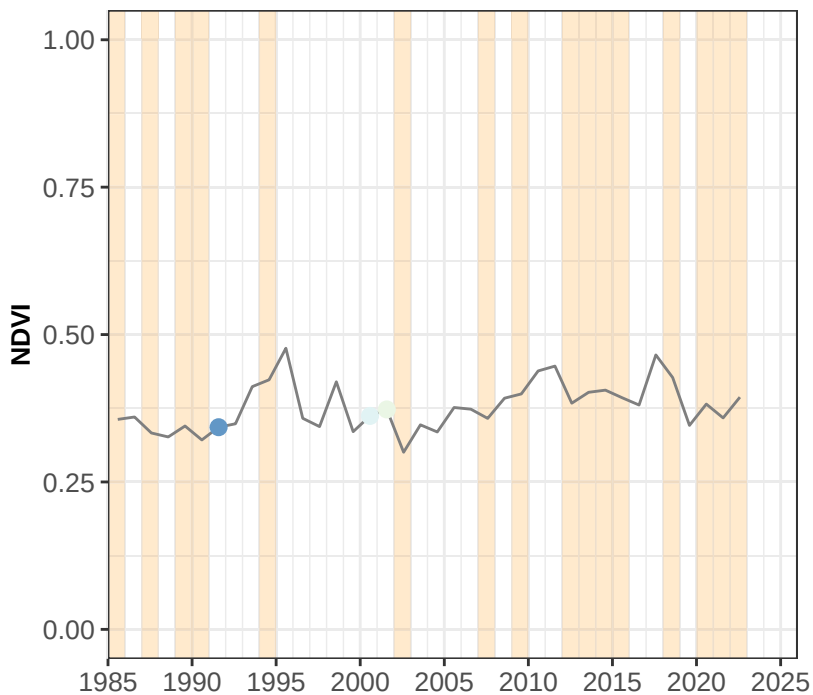


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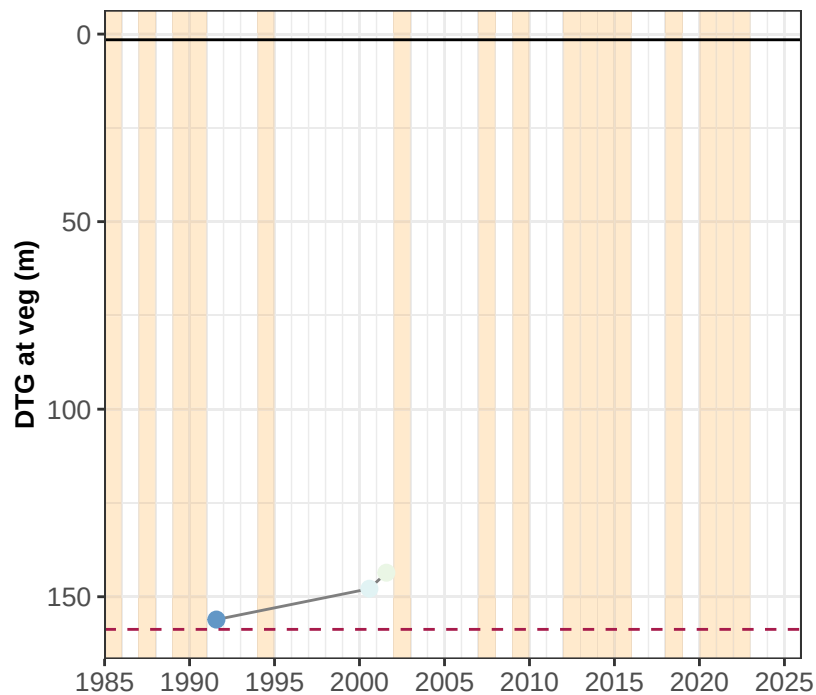


Salix (gdeID: 114725)

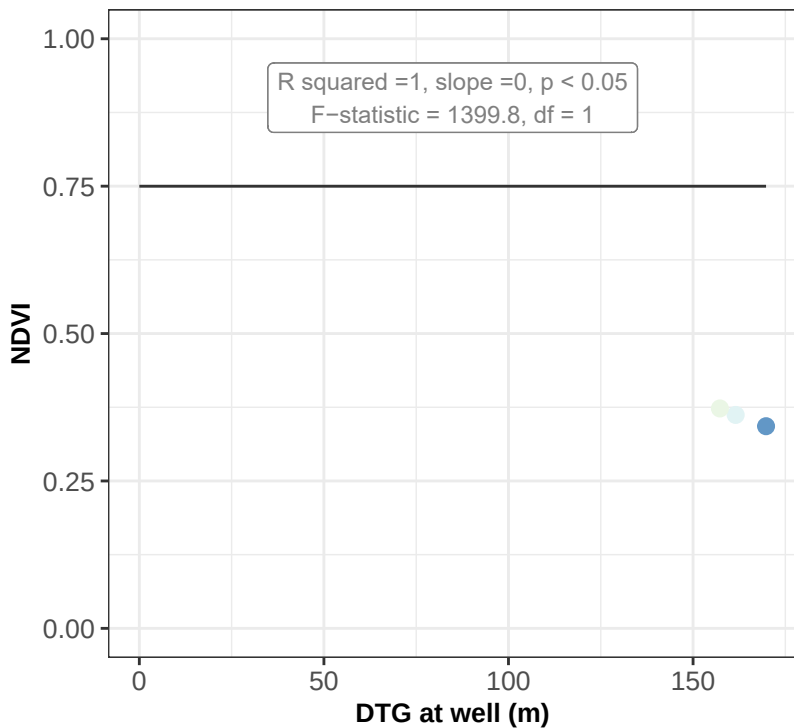
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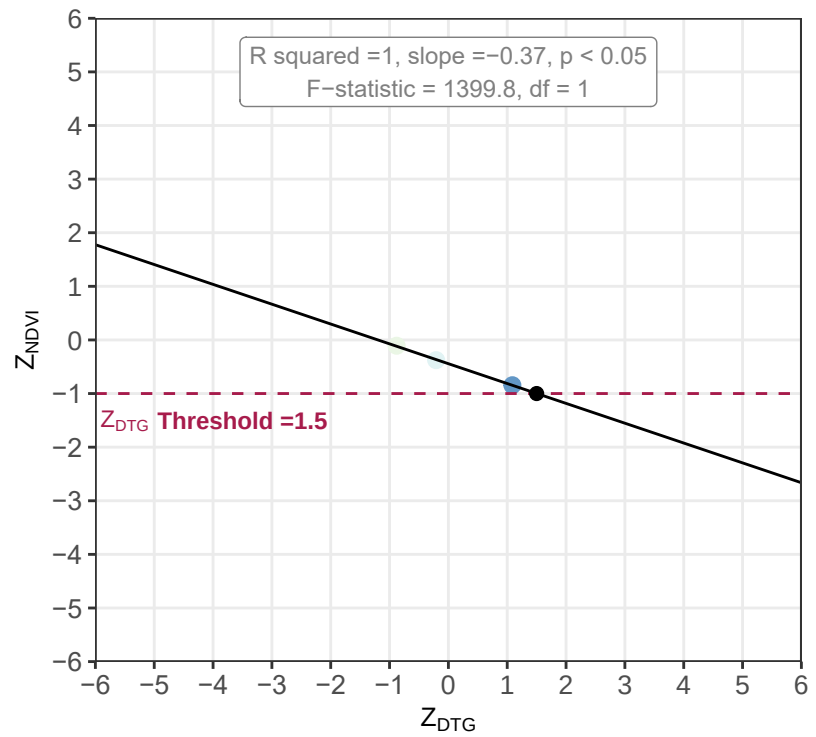
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c

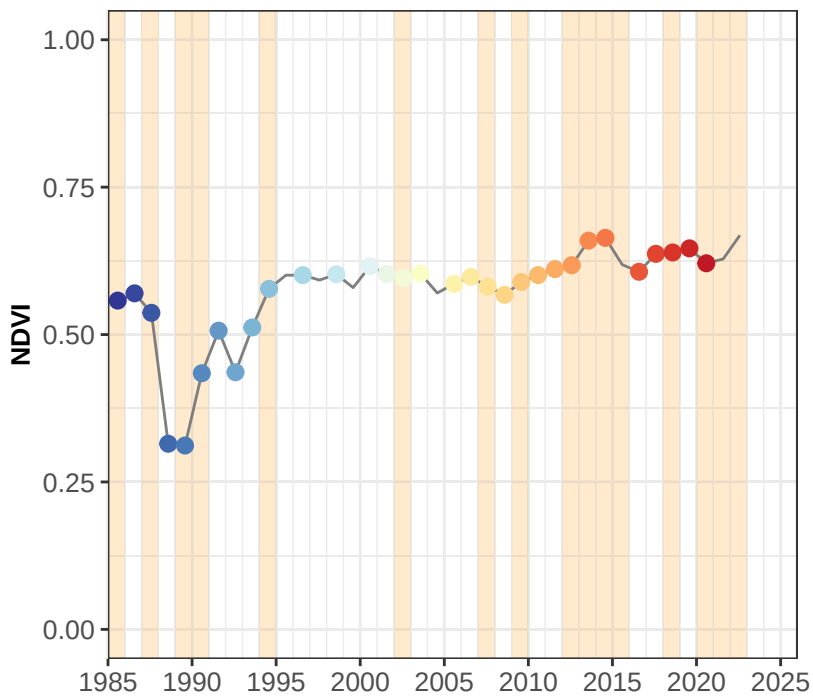


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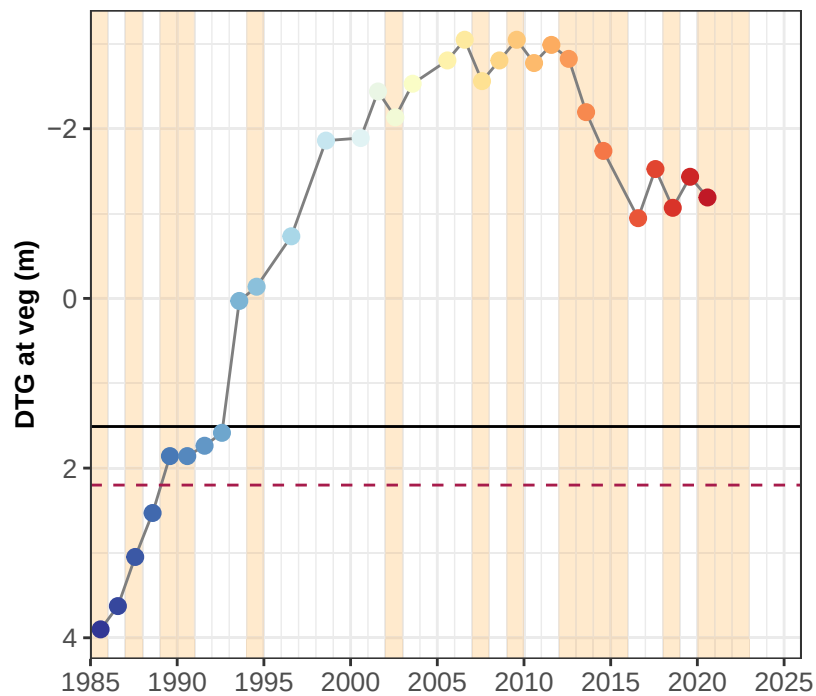


Salix (gdeID: 114786)

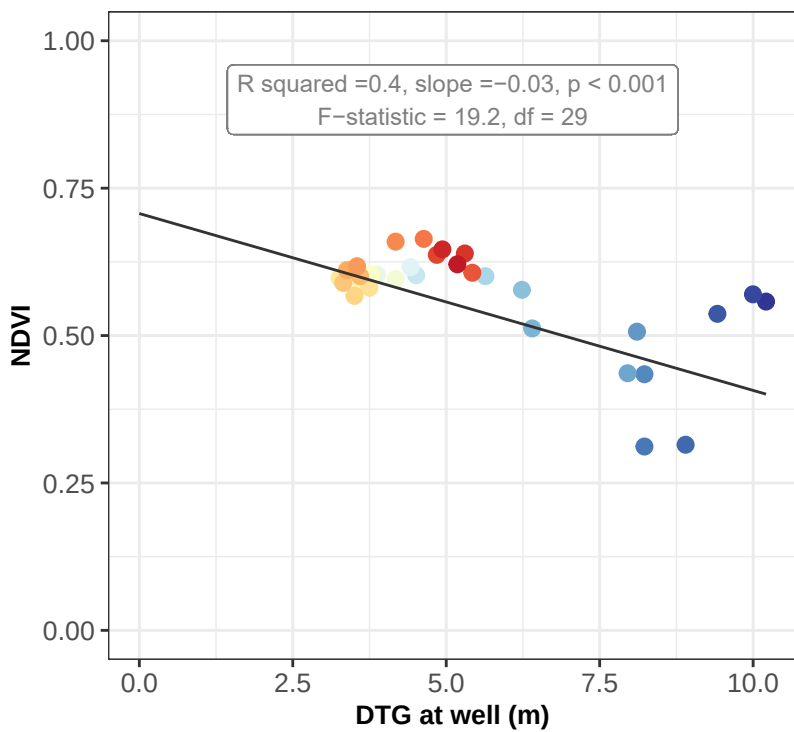
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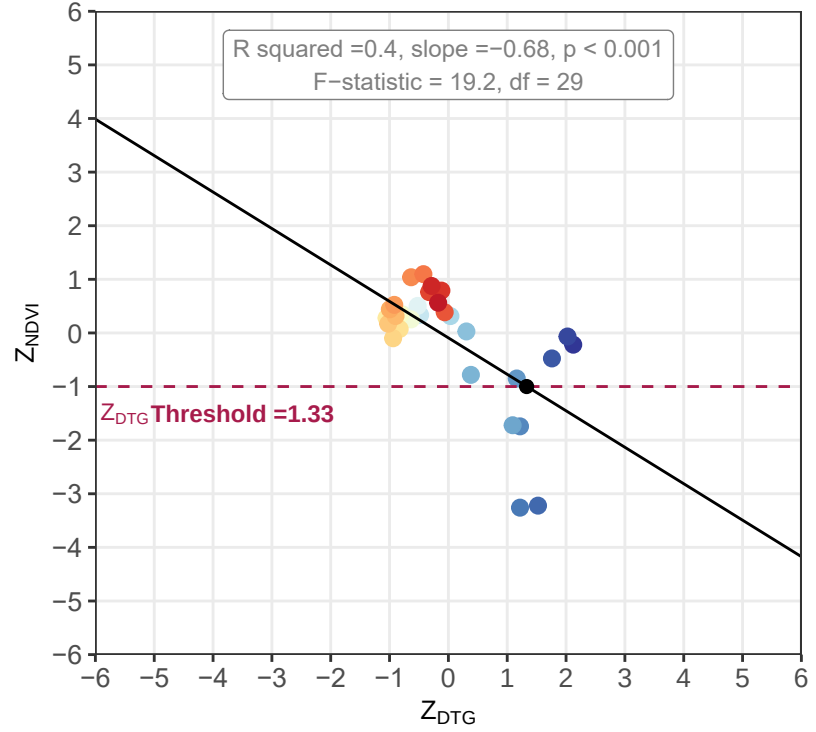
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c

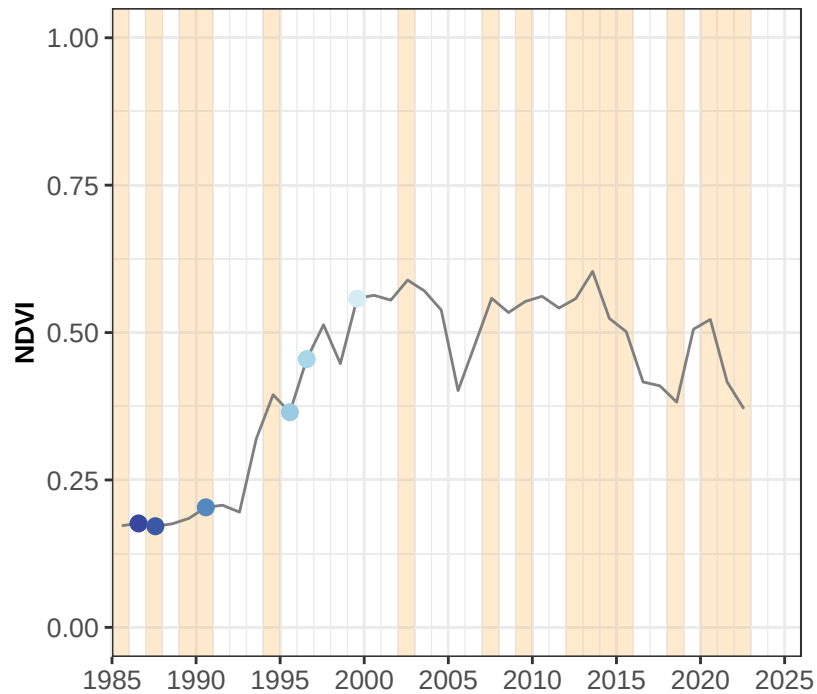


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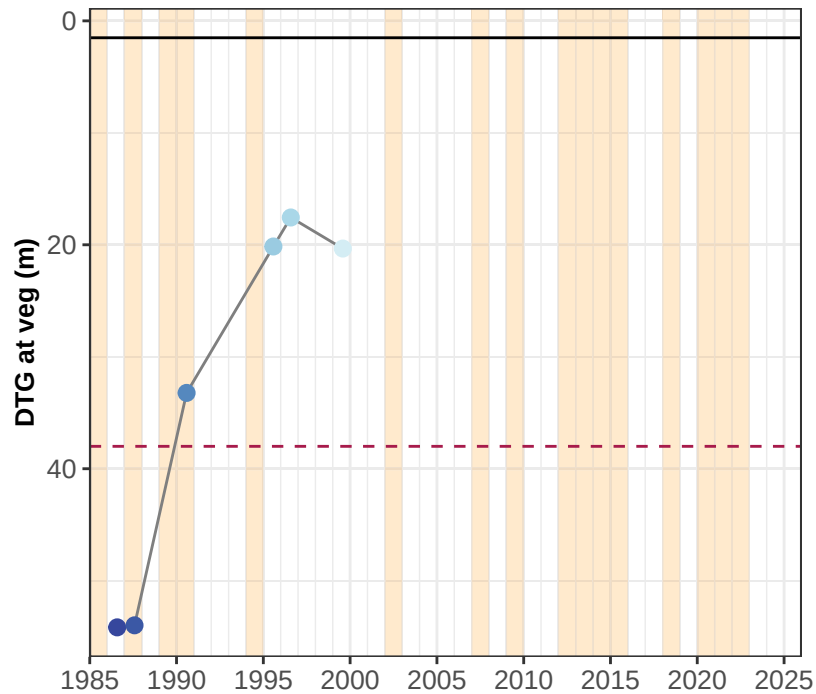


Salix (gdeID: 114790)

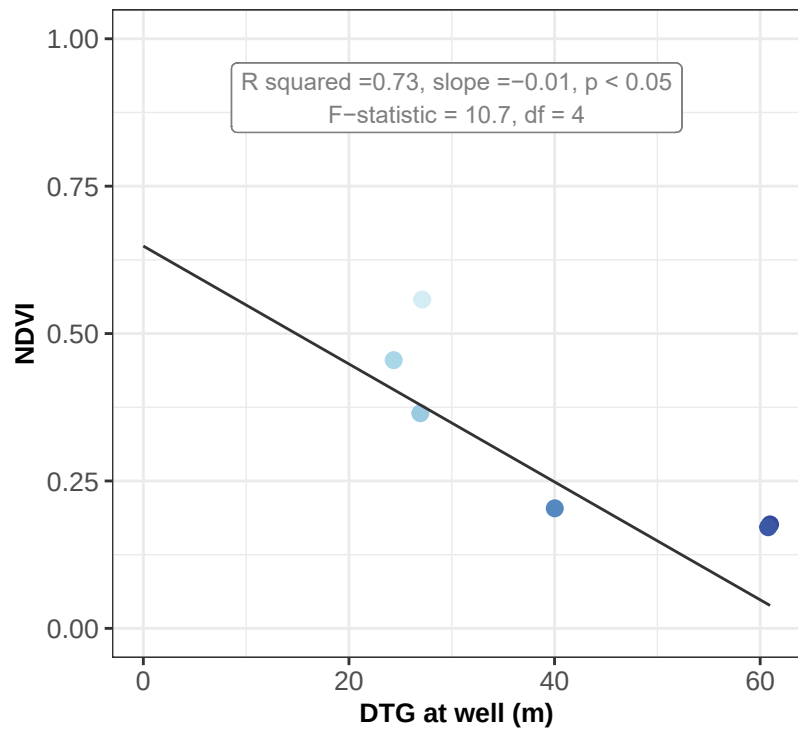
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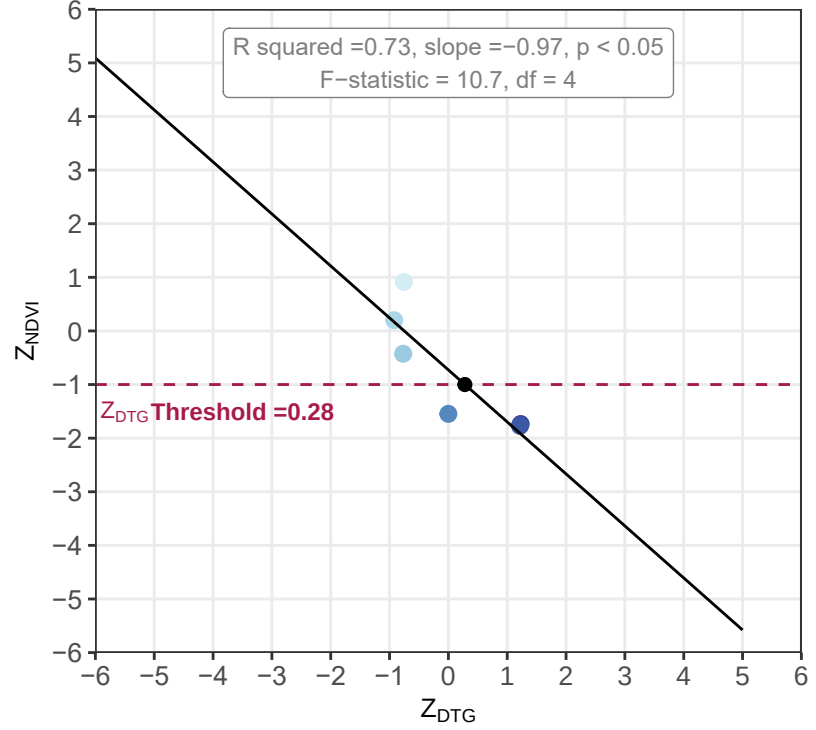
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c

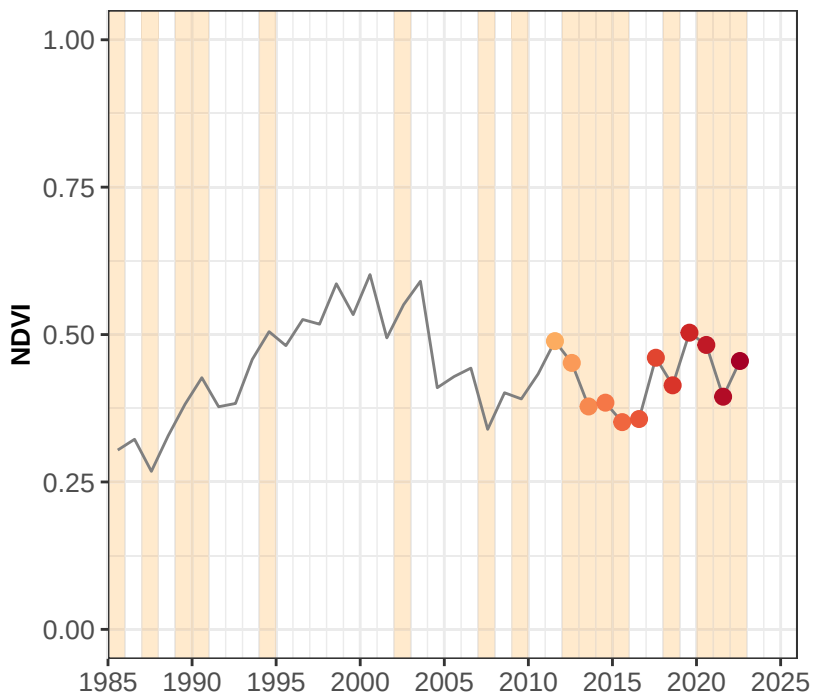


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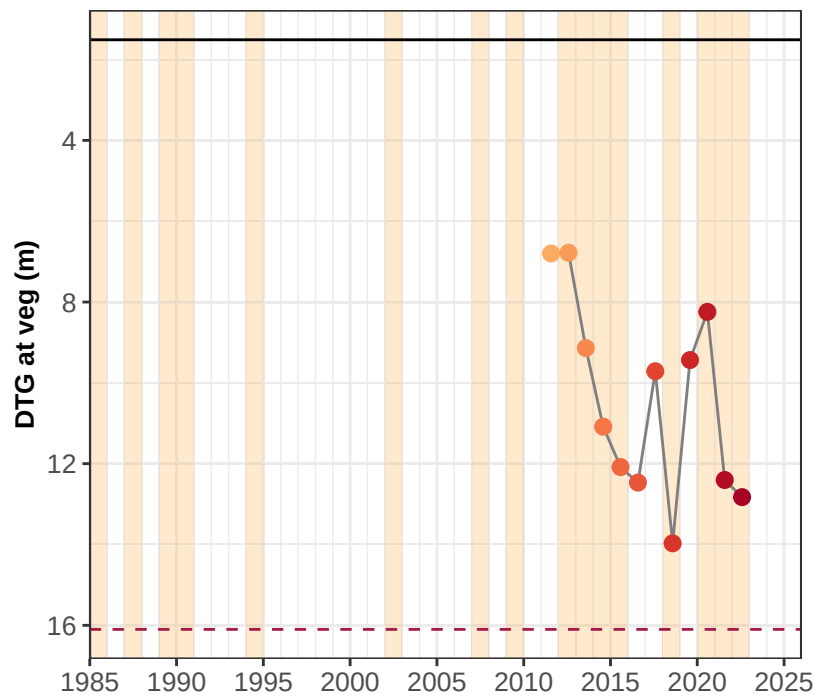


Salix (gdeID: 114914)

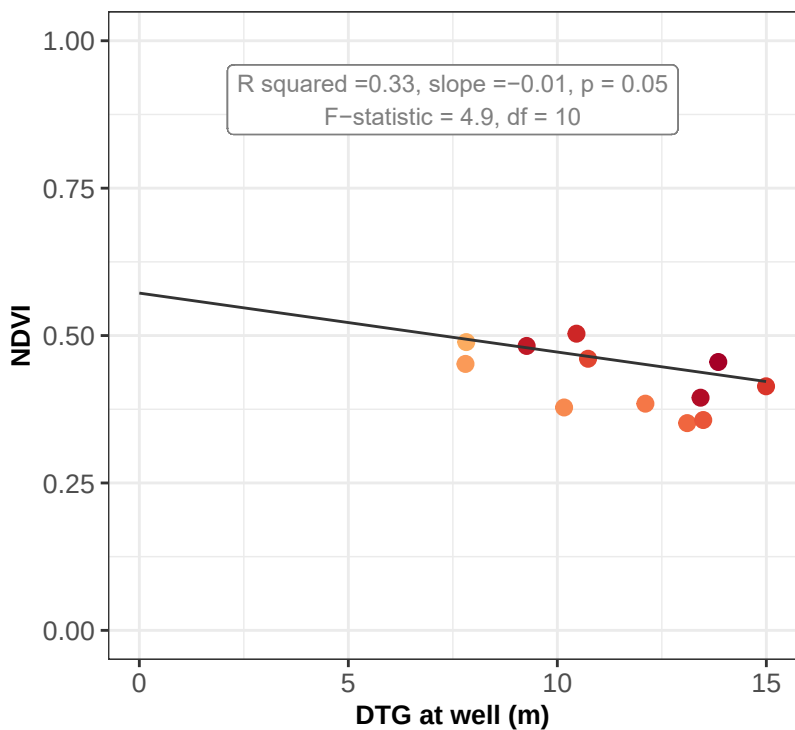
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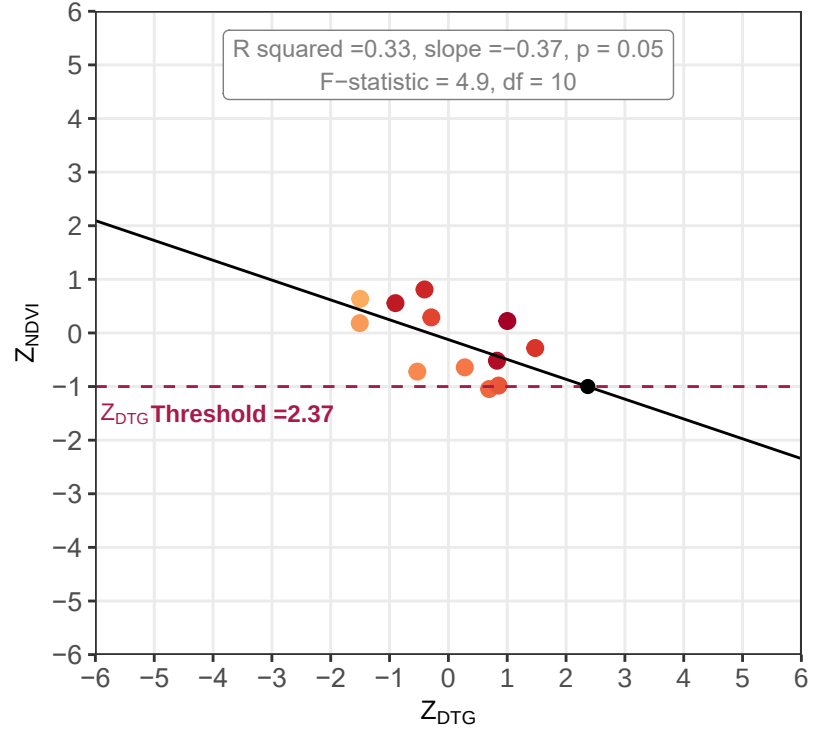
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c

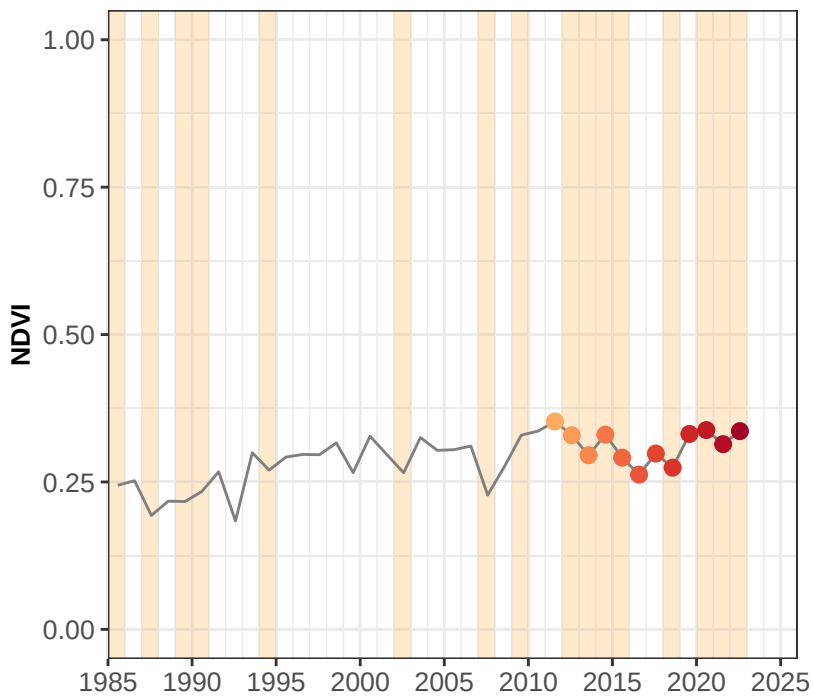


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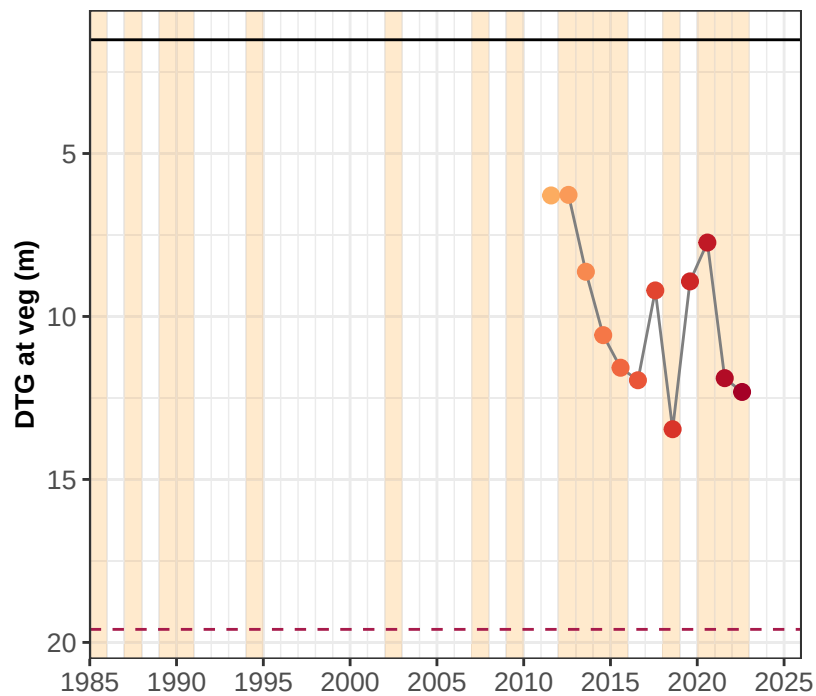


Salix (gdeID: 114919)

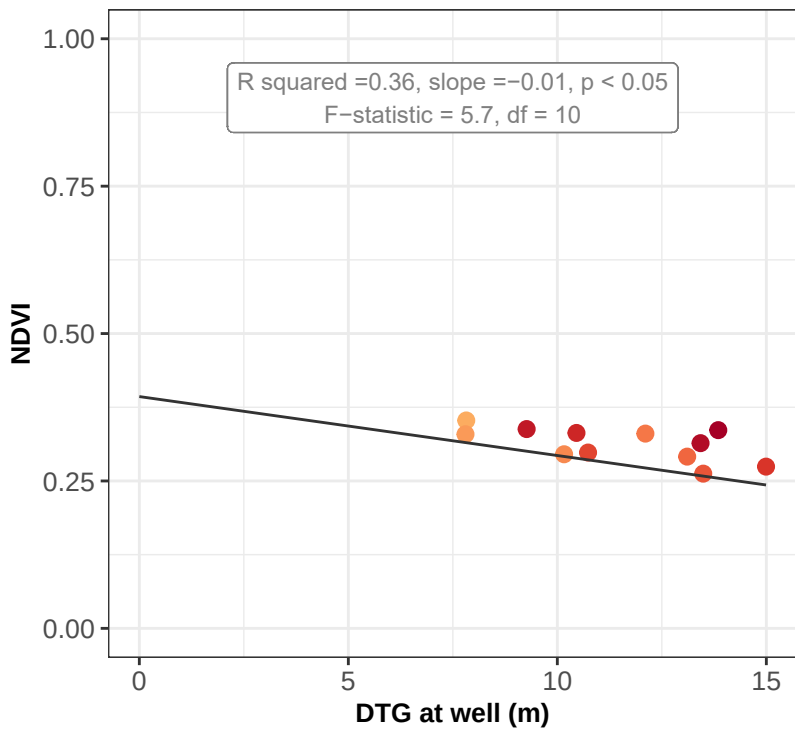
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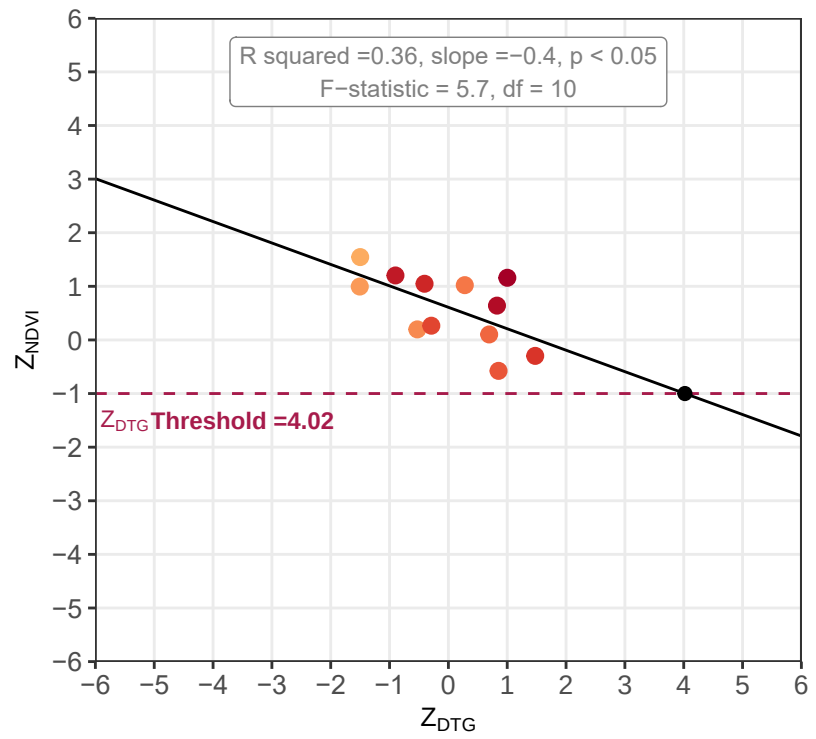
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c

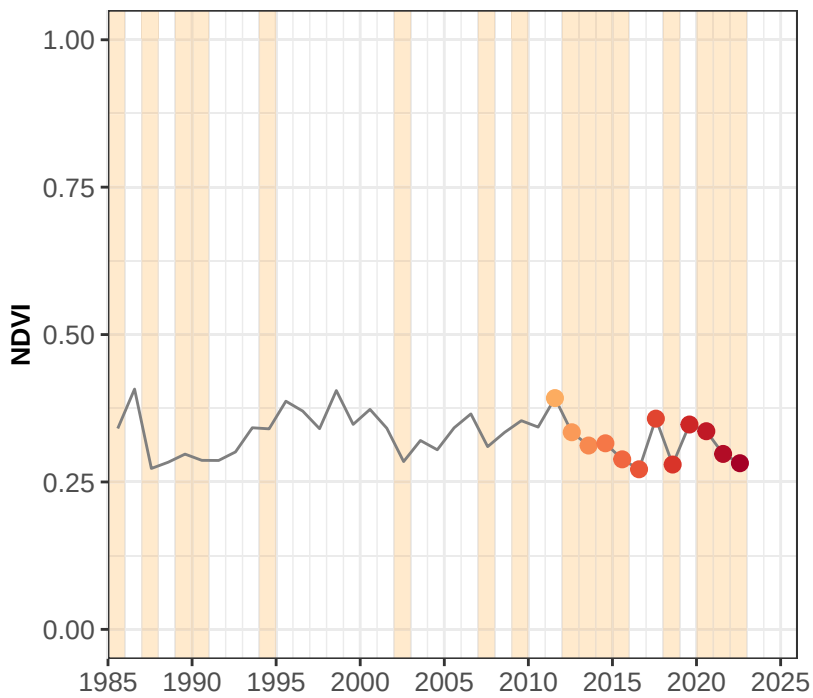


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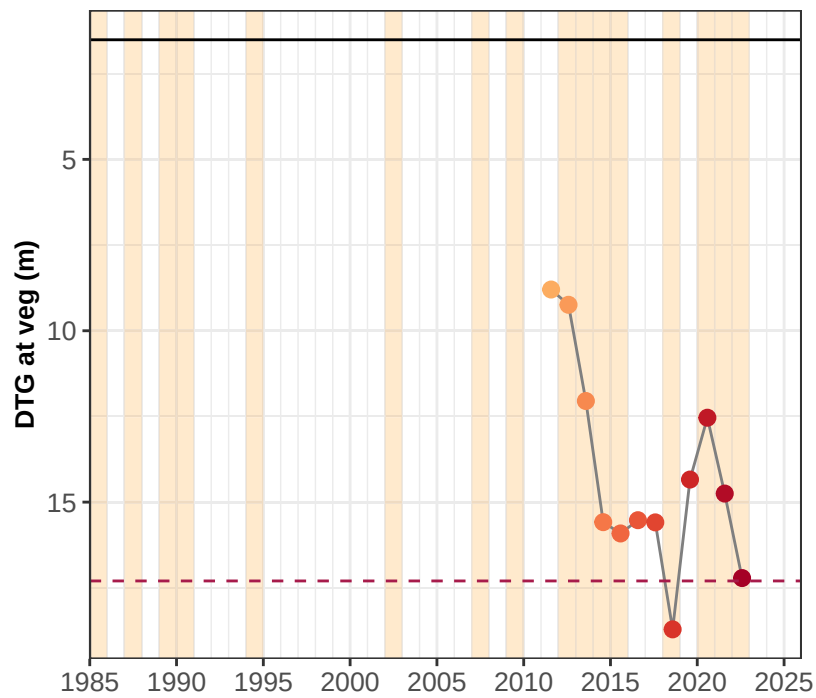


Salix (gdeID: 114924)

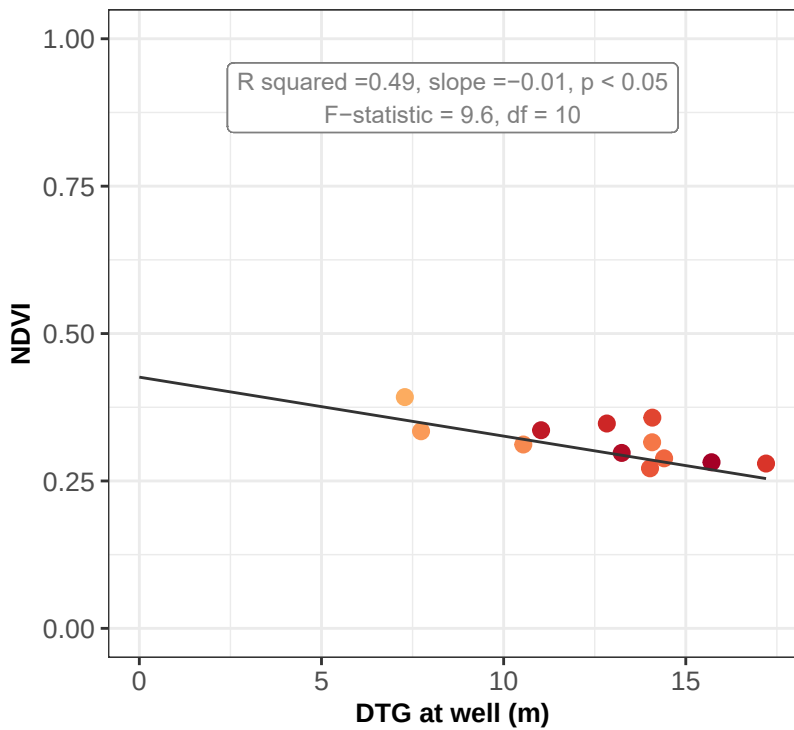
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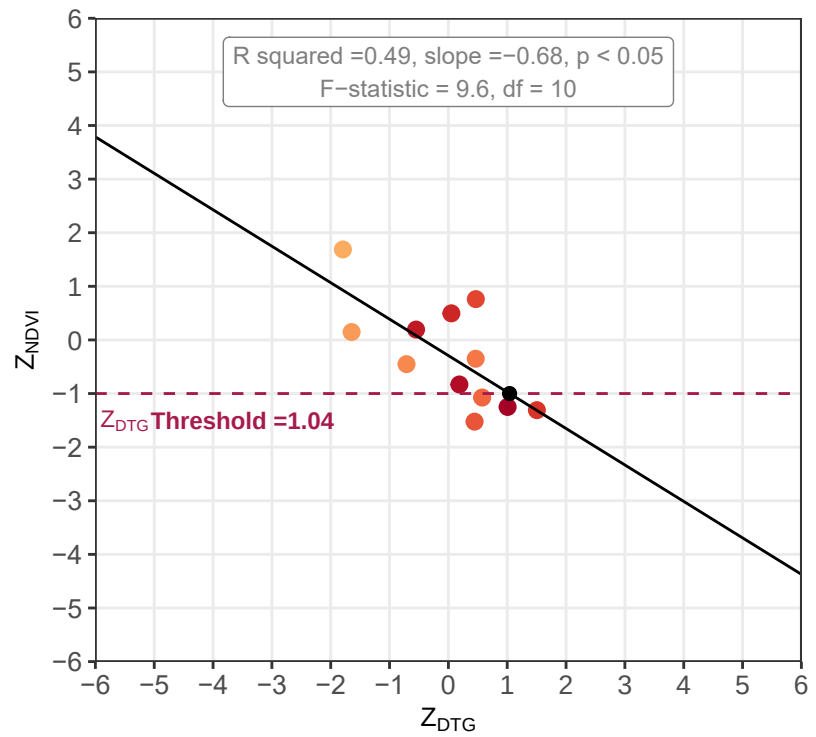
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c

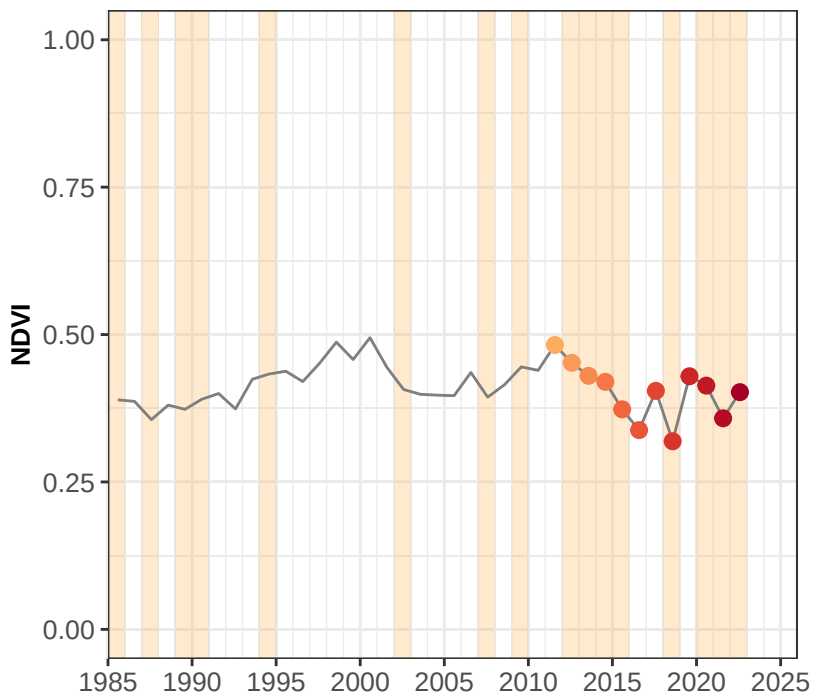


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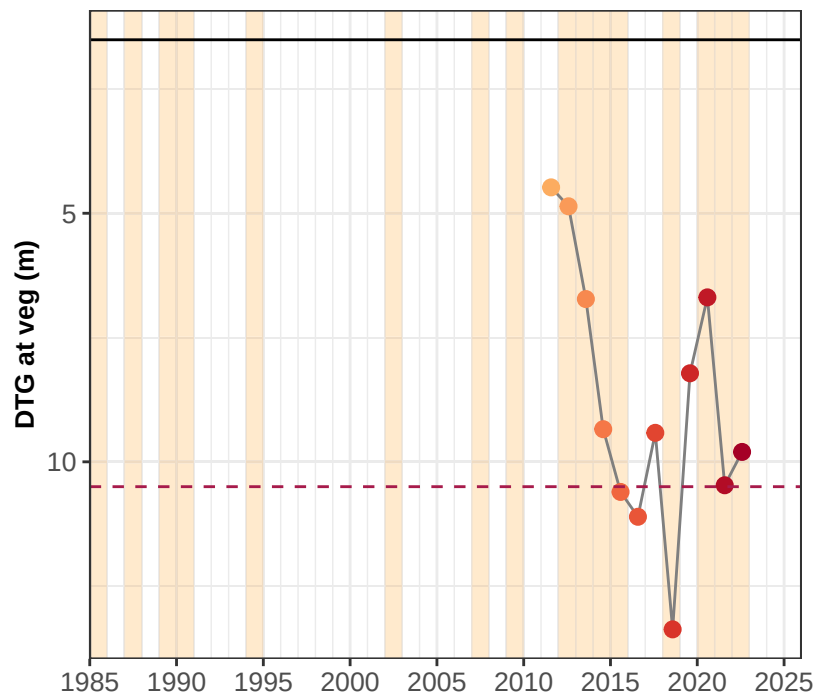


Salix (gdeID: 114925)

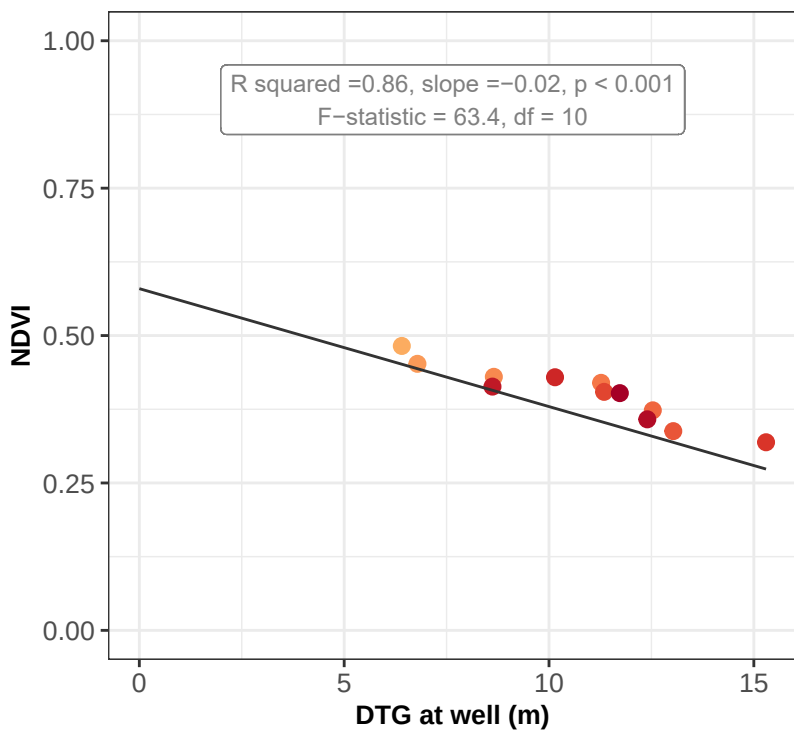
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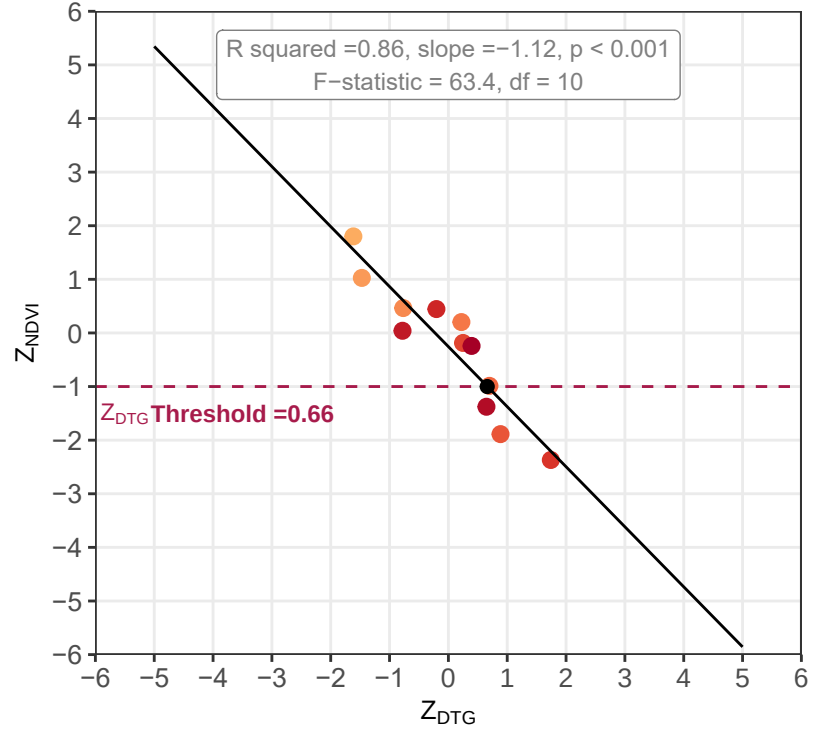
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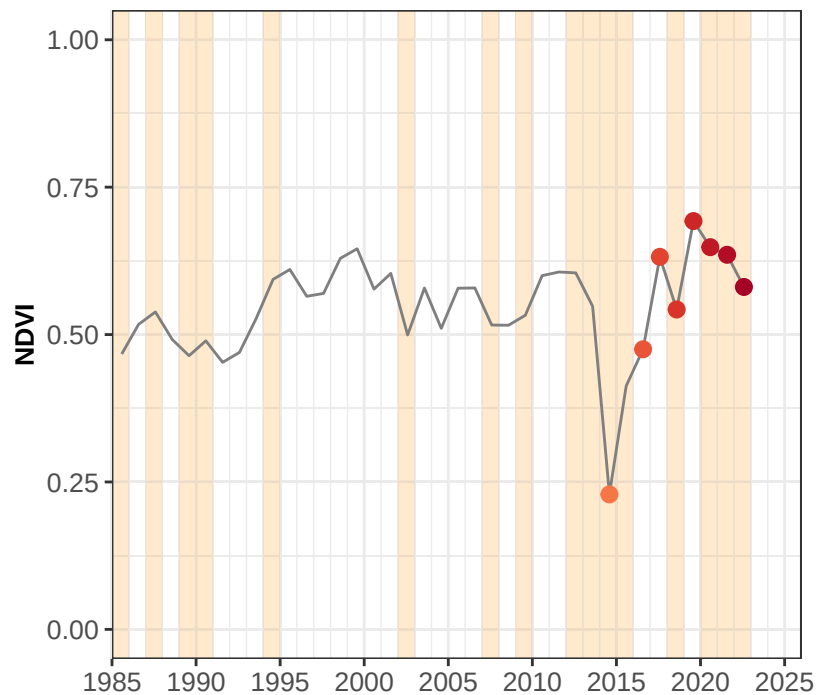


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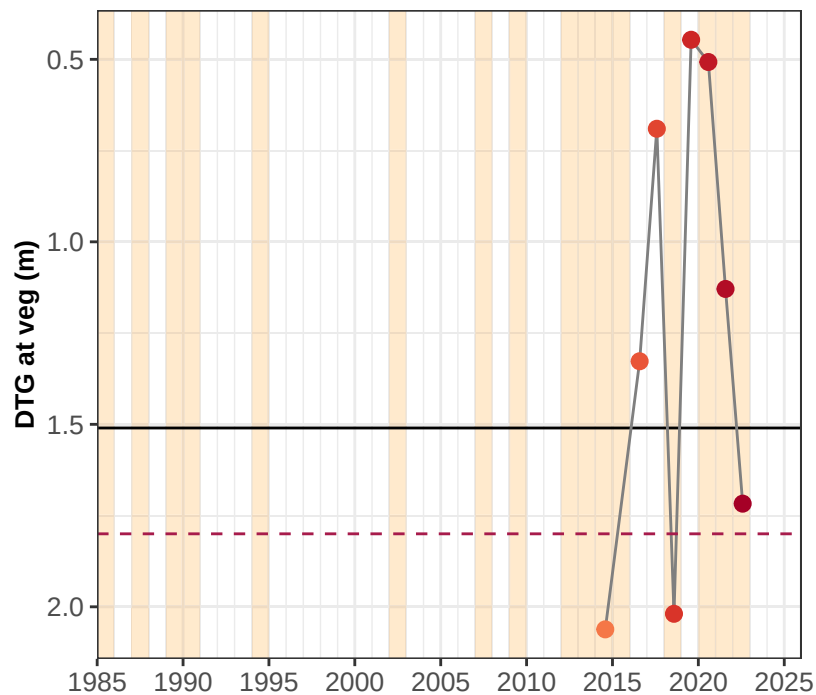


Salix (gdeID: 115158)

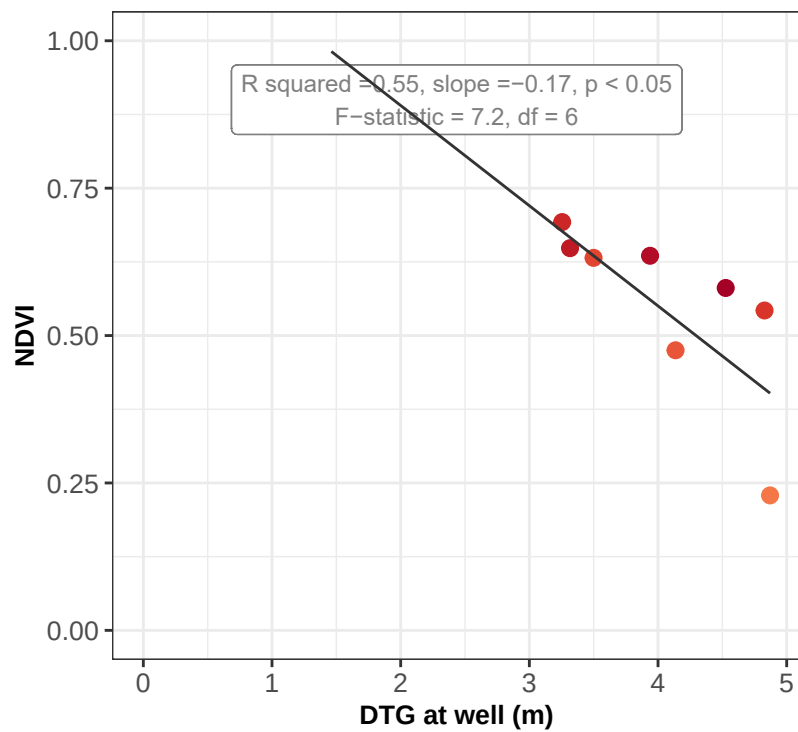
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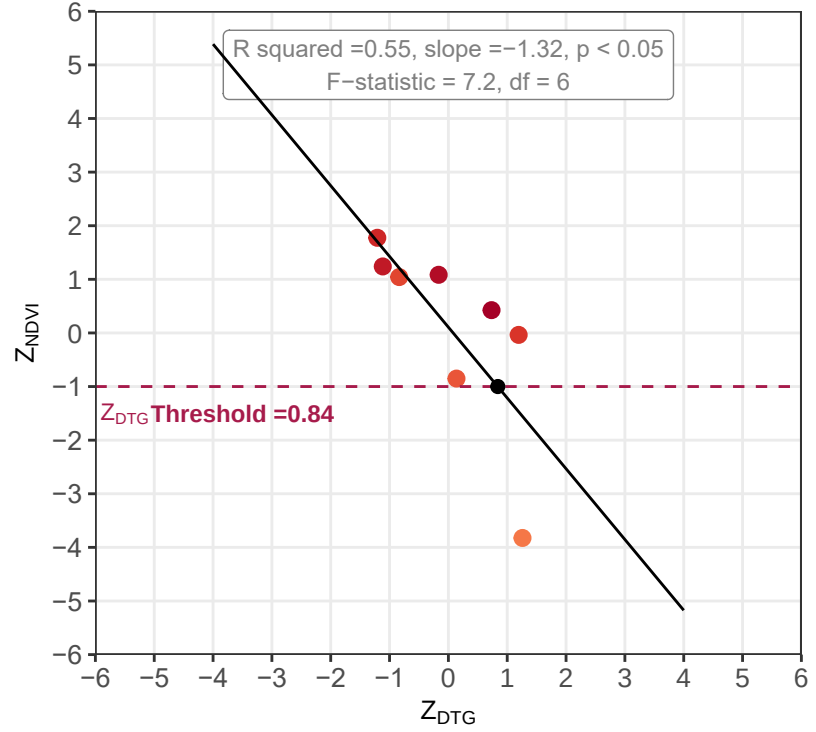
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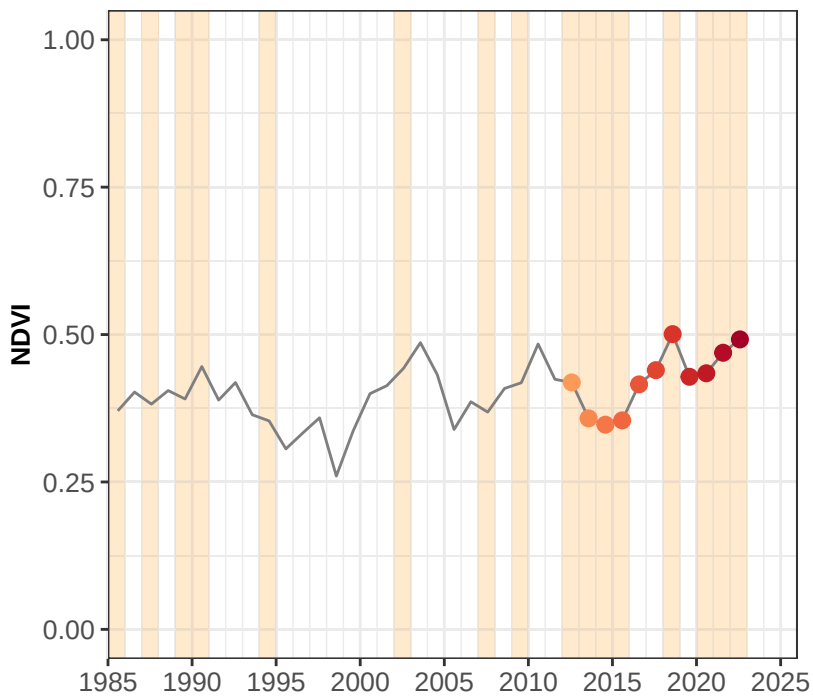


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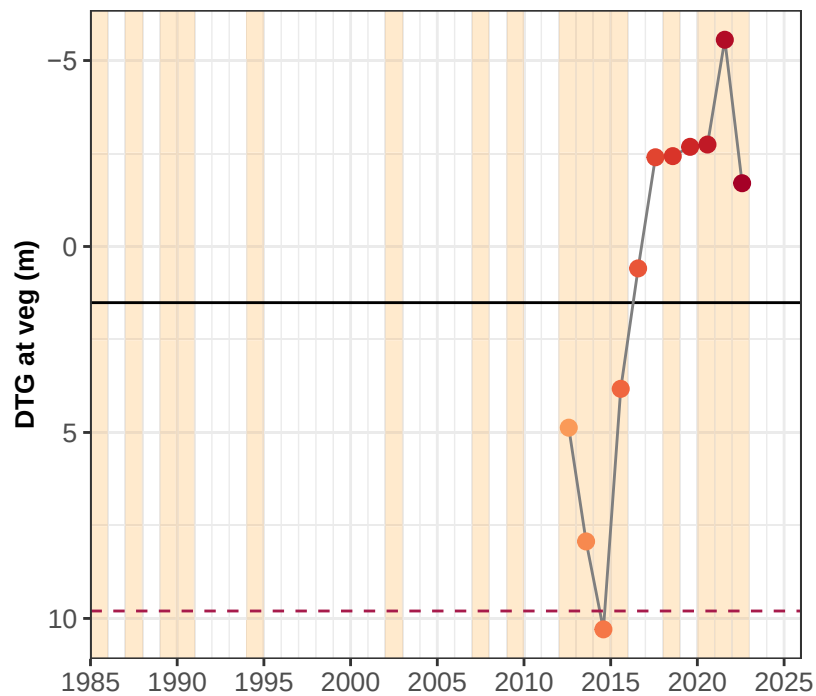


Salix (gdeID: 115212)

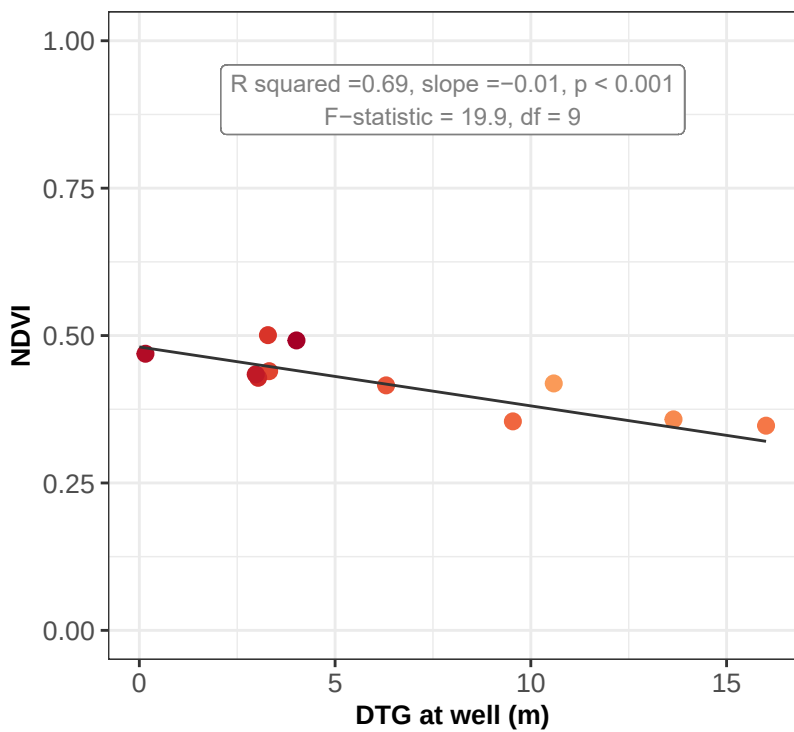
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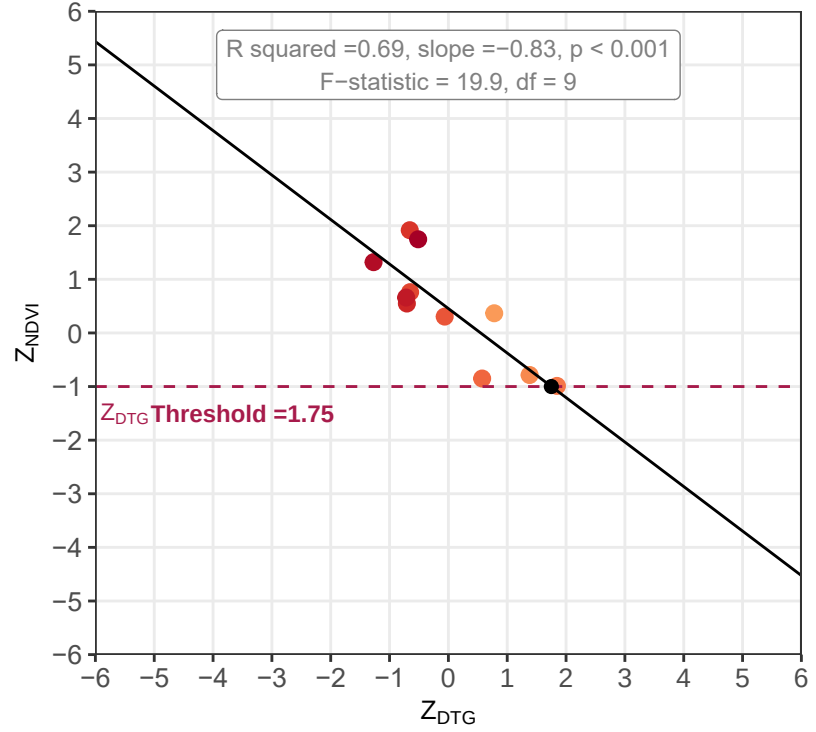
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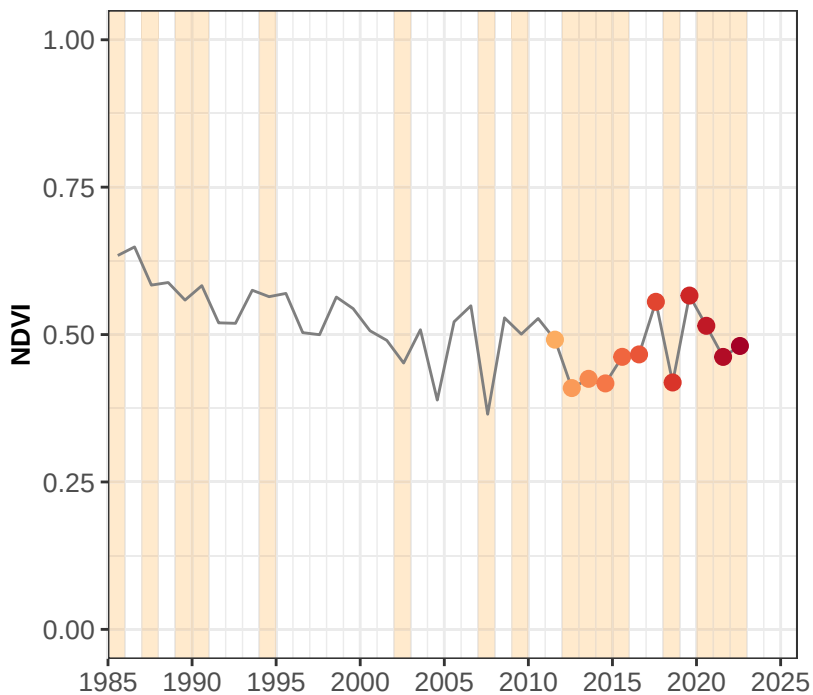


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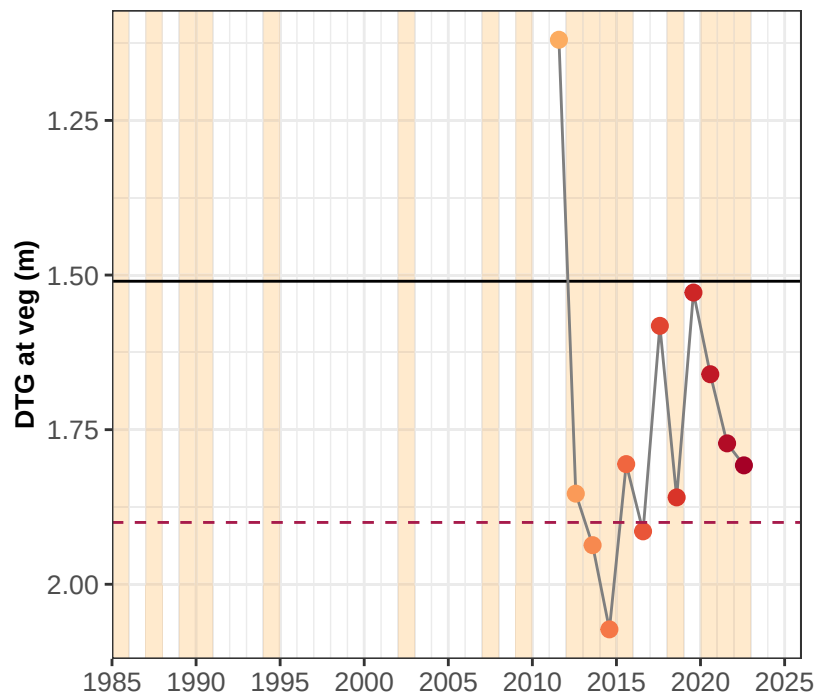


Salix (gdeID: 115235)

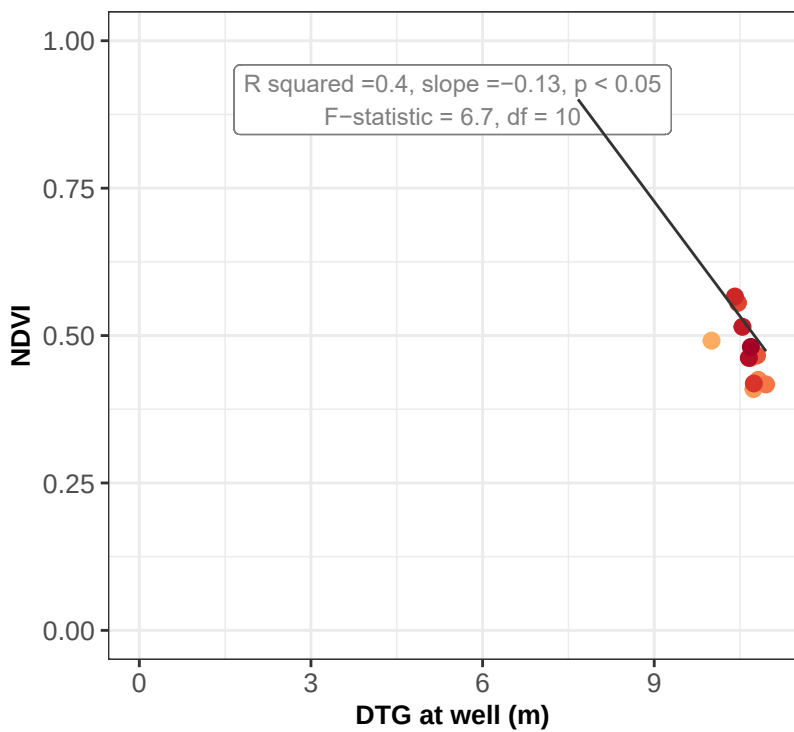
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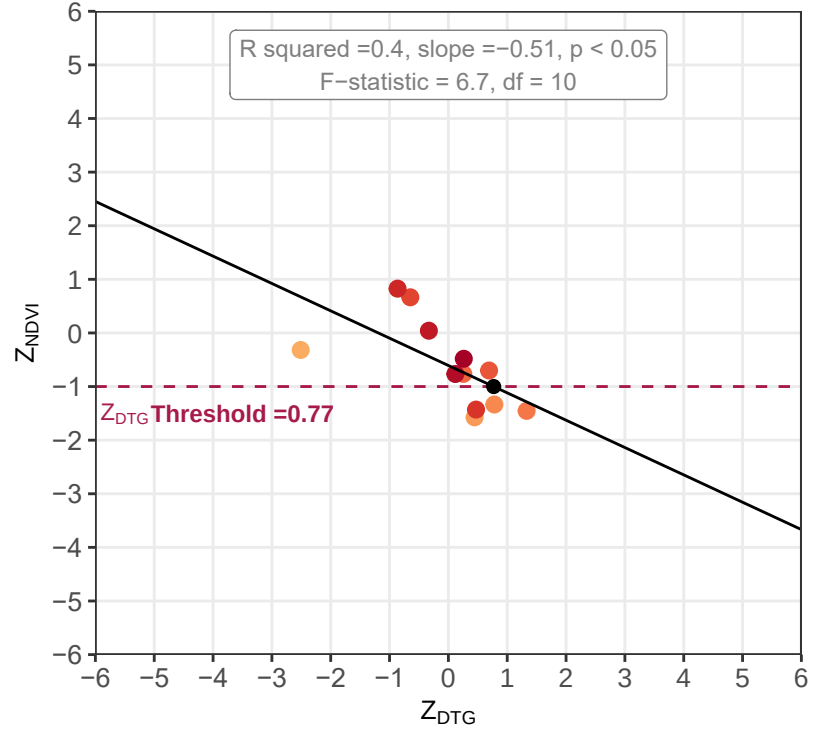
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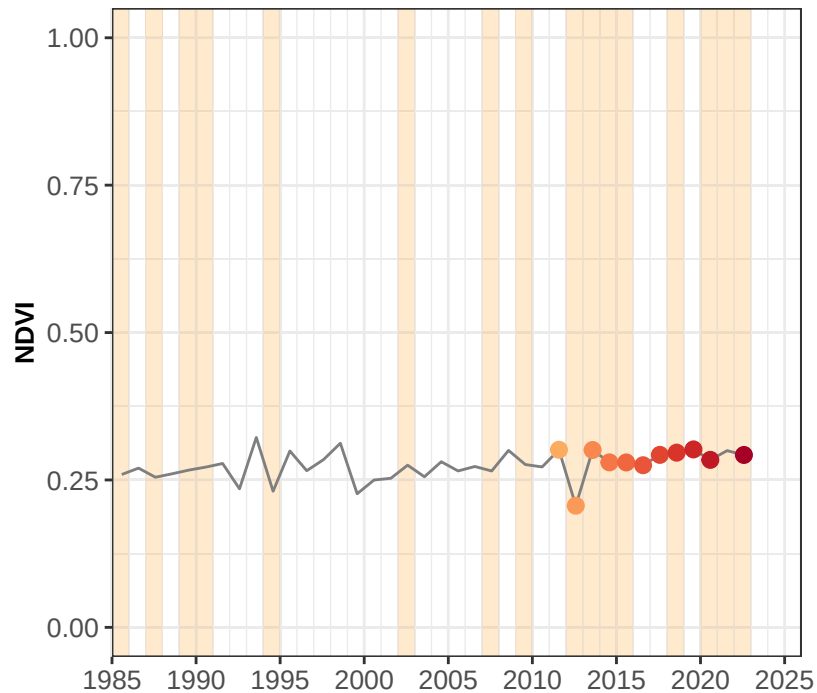


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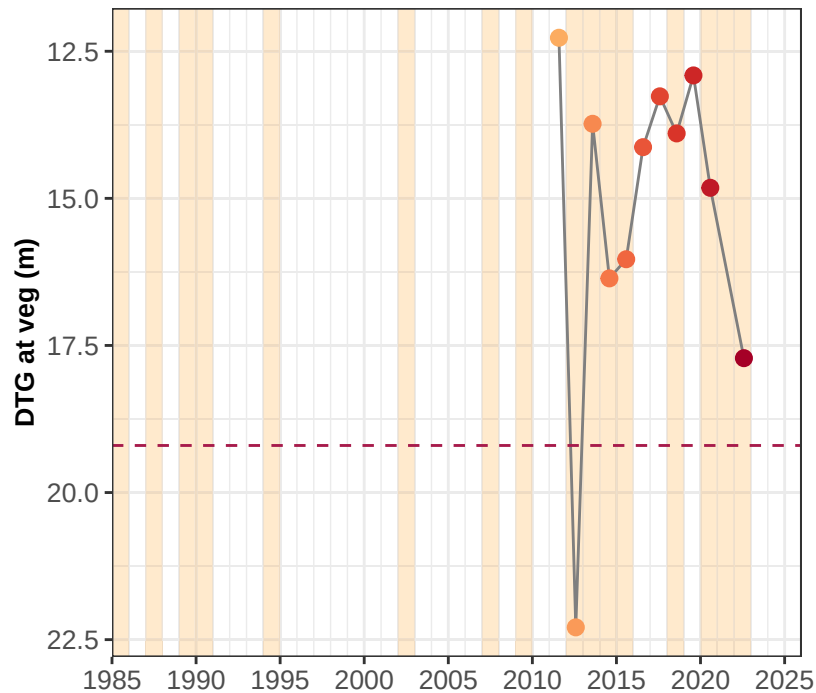


Flooded Veg (gdeID: 117480)

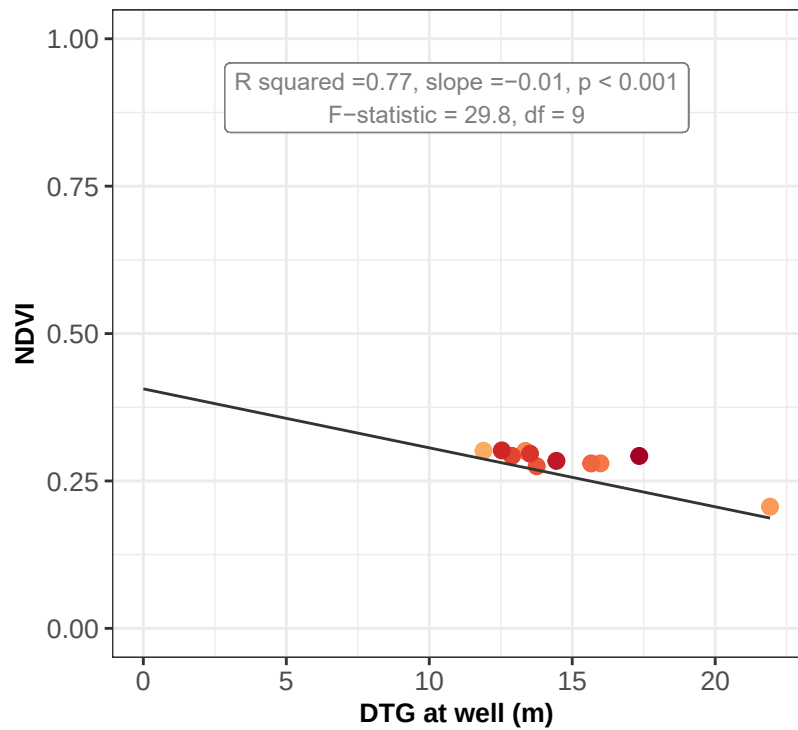
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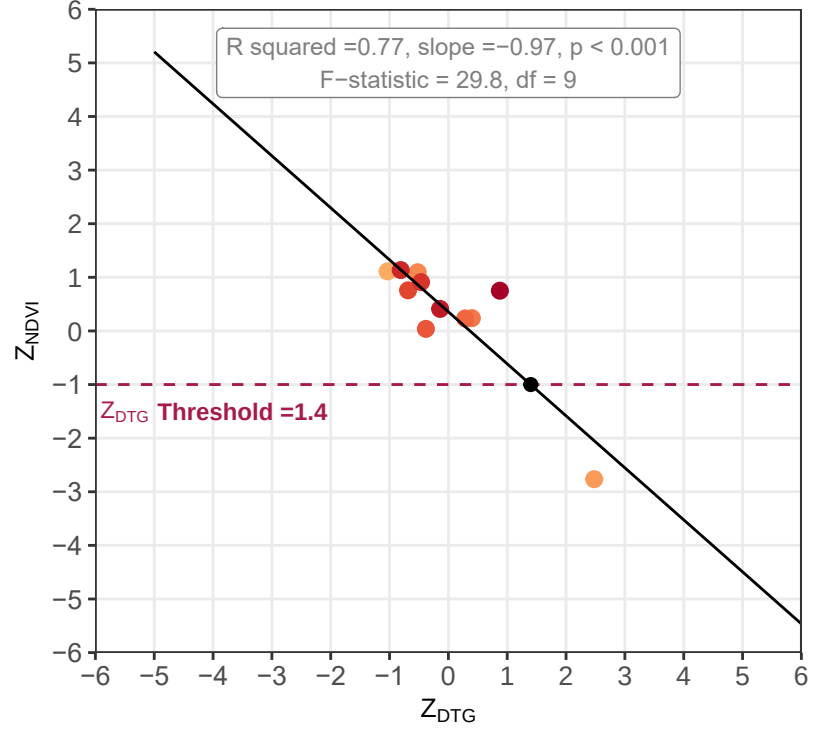
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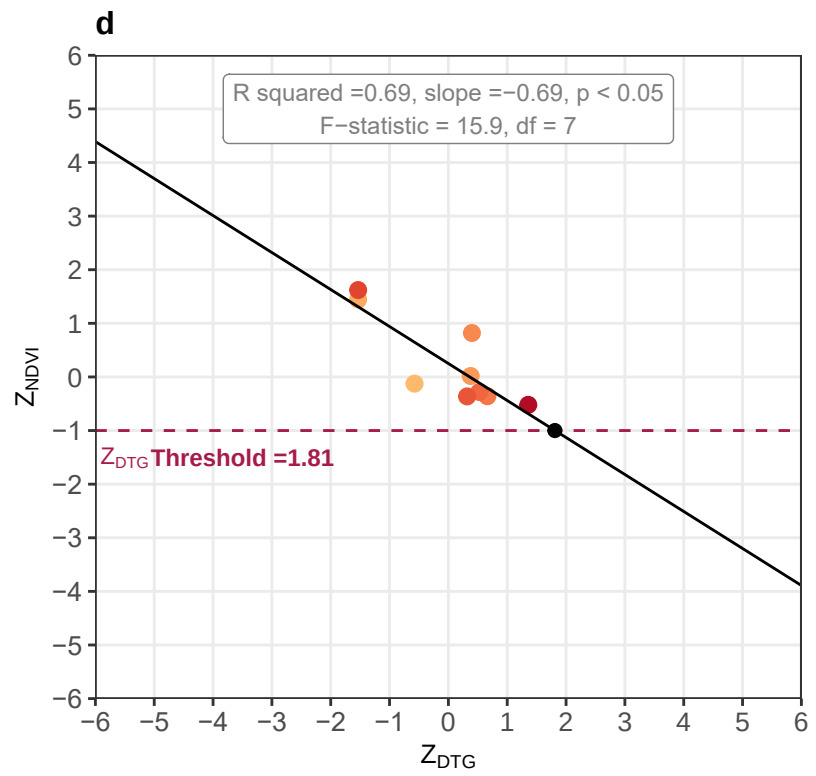
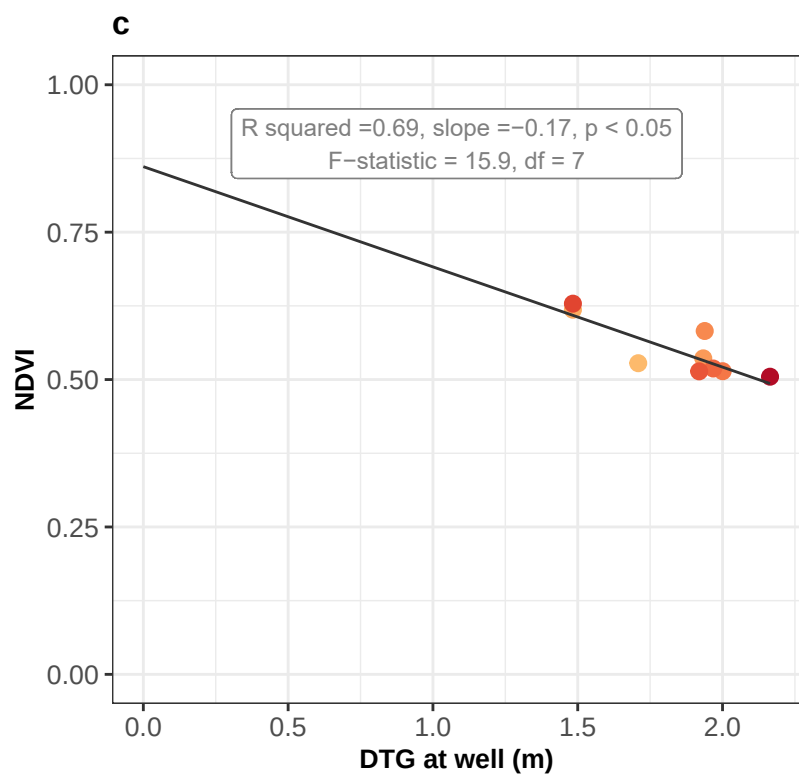
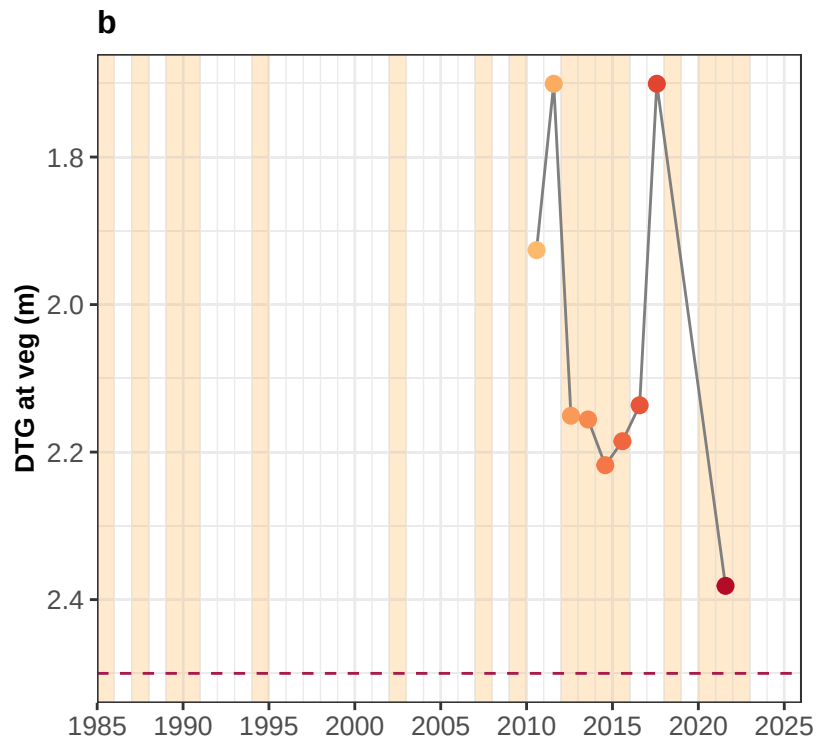
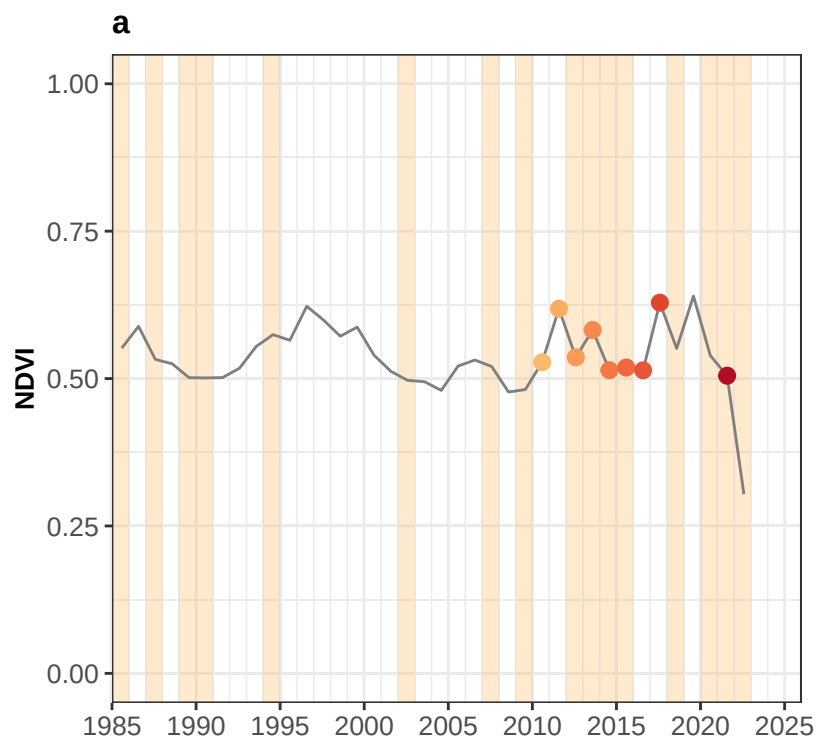
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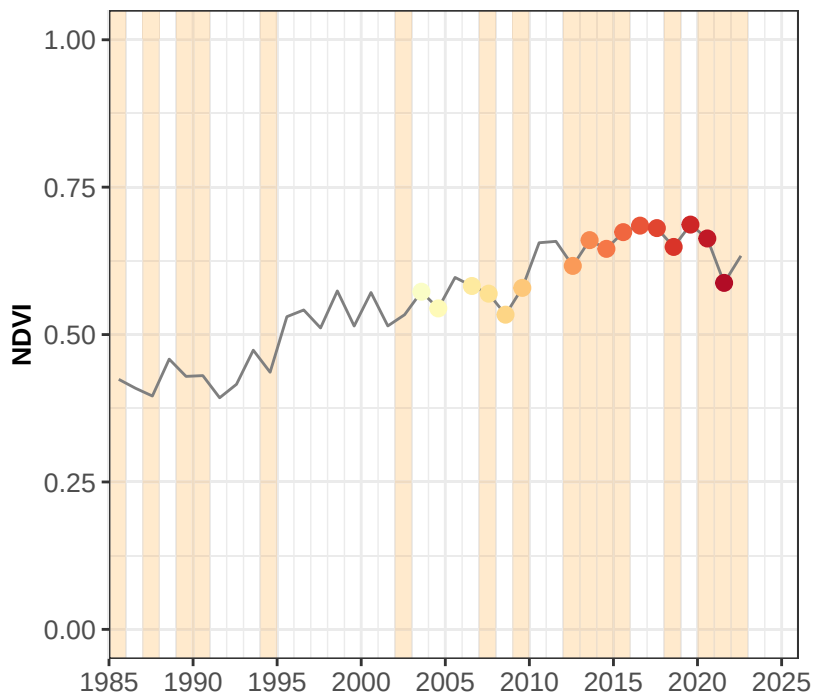


Rubus (gdeID: 12374)

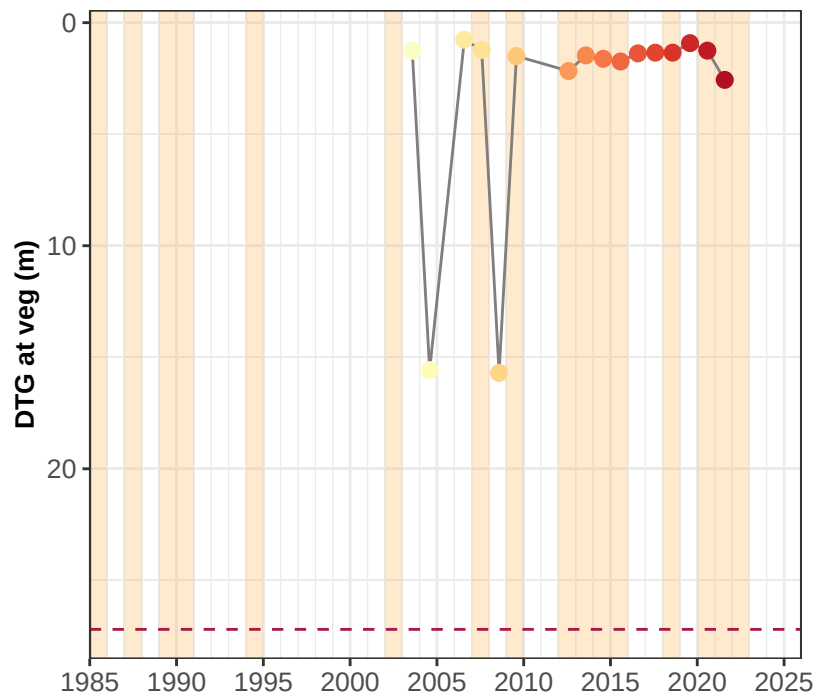


(gdeID: 124367)

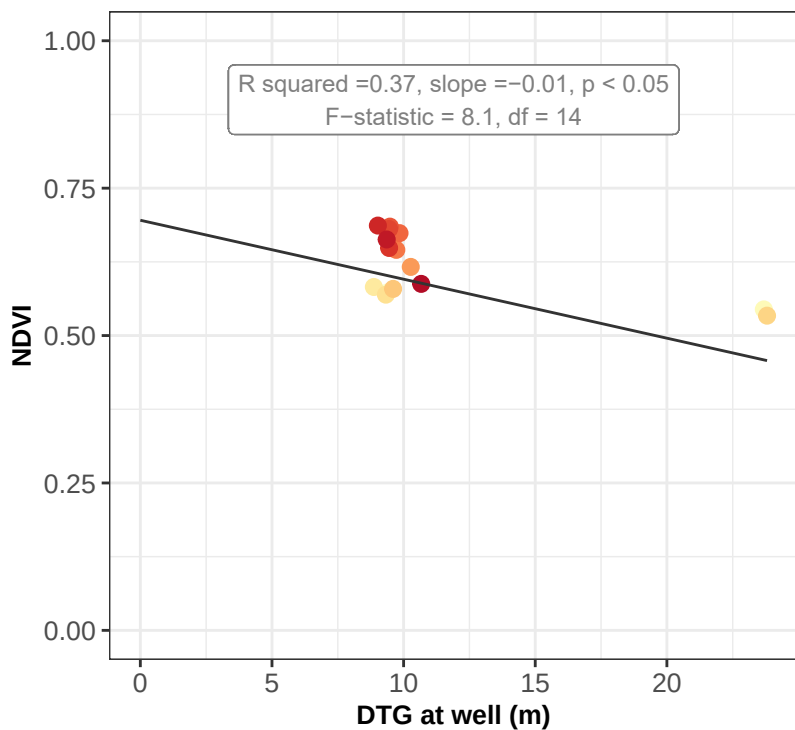
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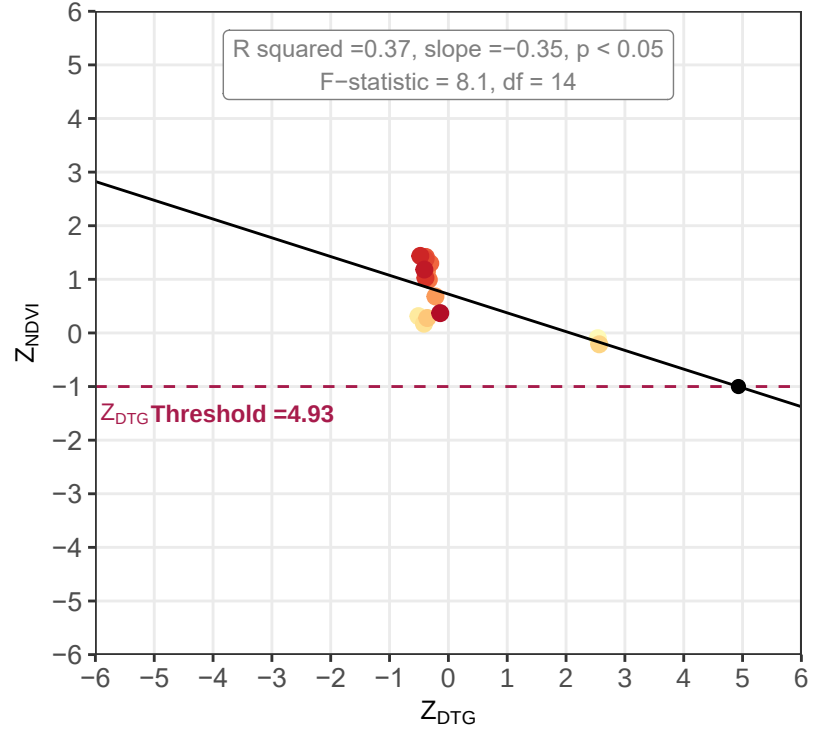
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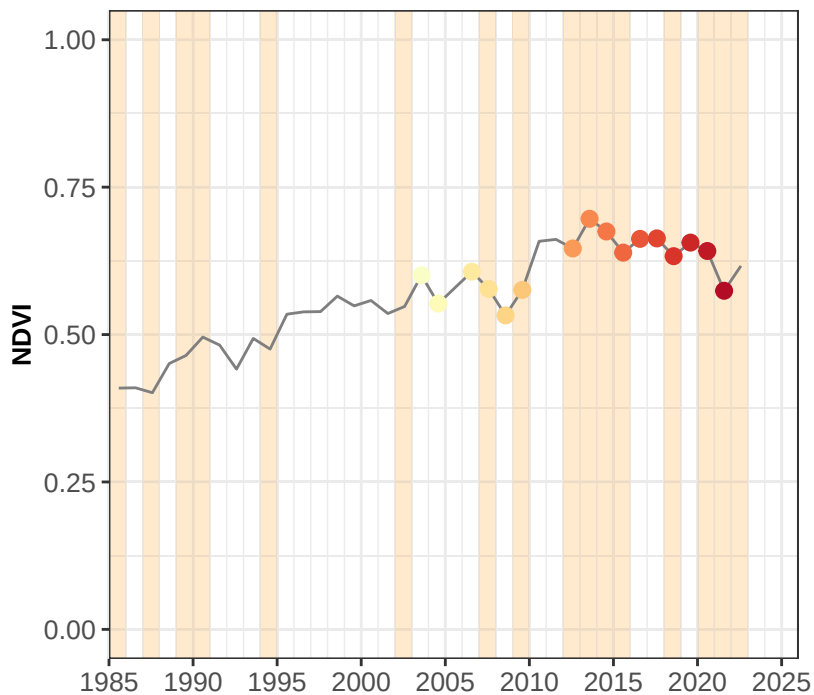


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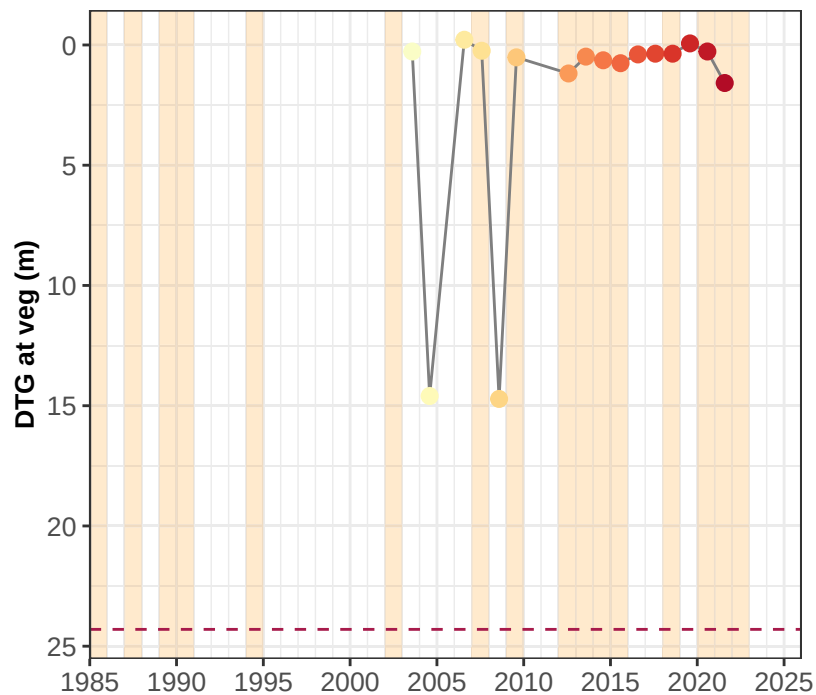


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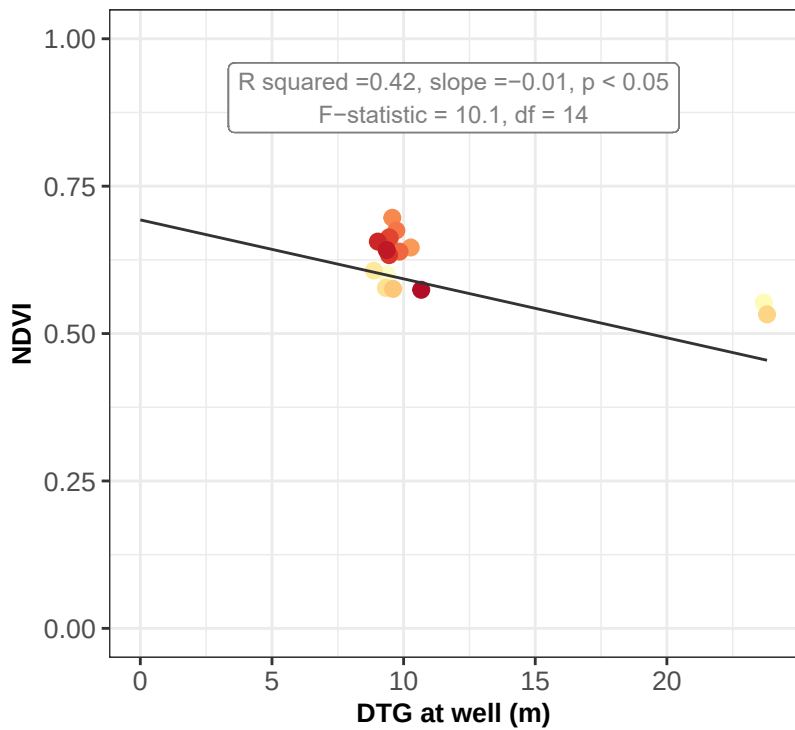
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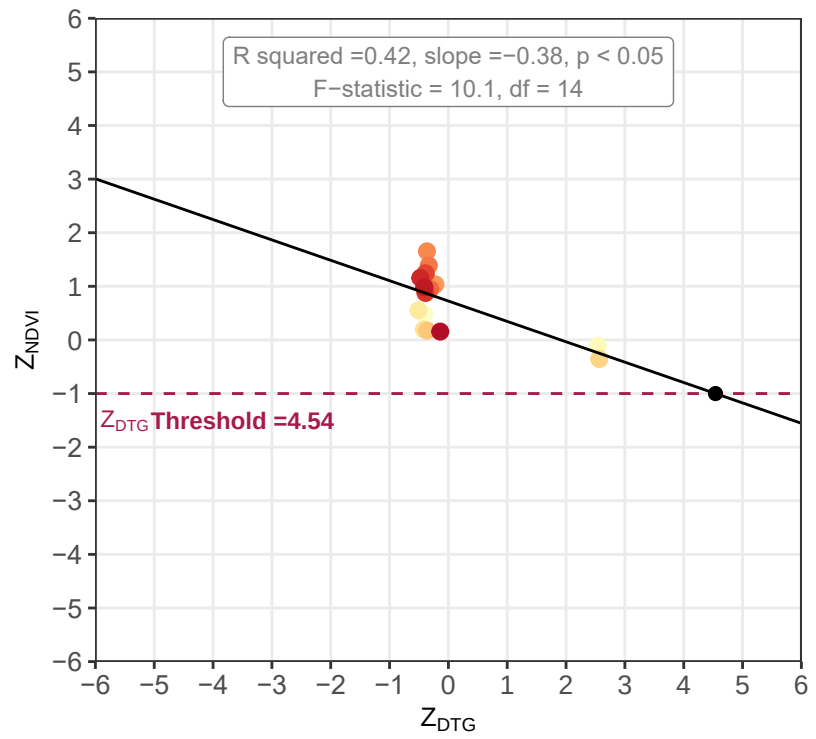
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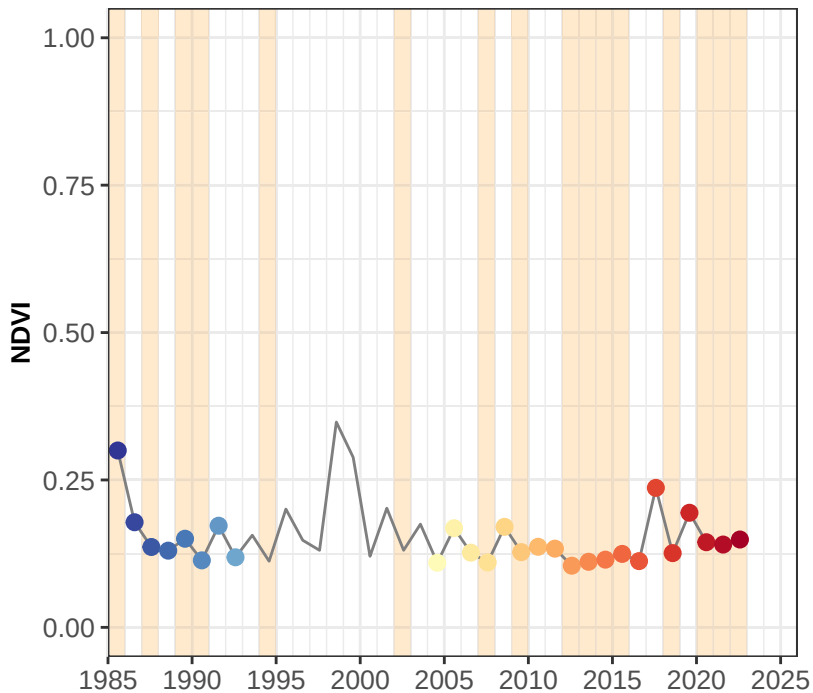


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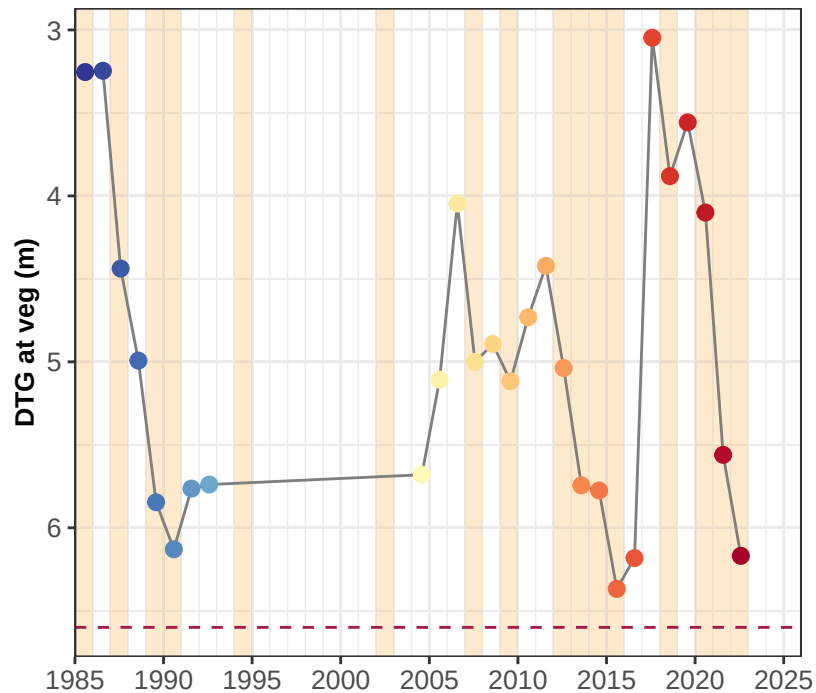


(gdeID: 125105)

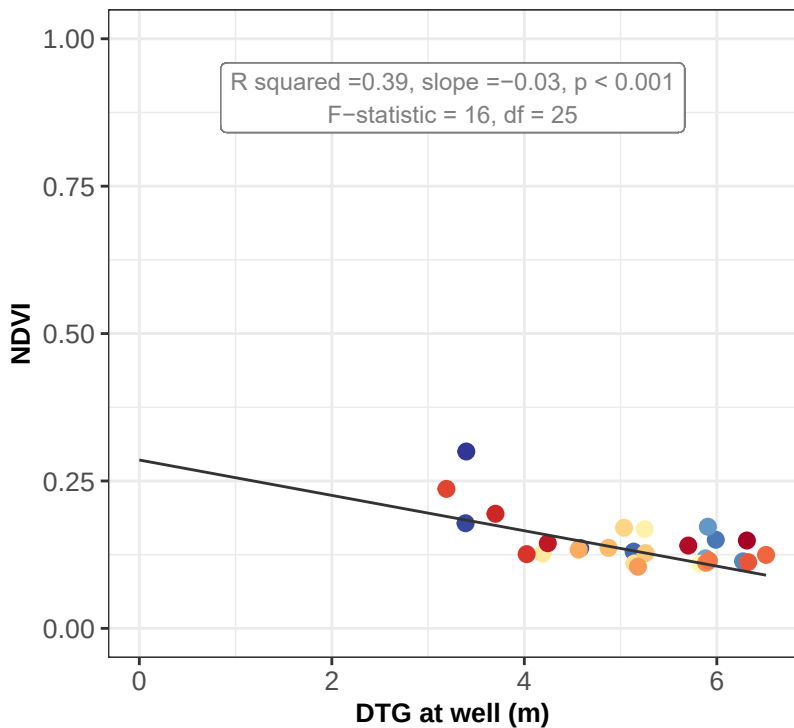
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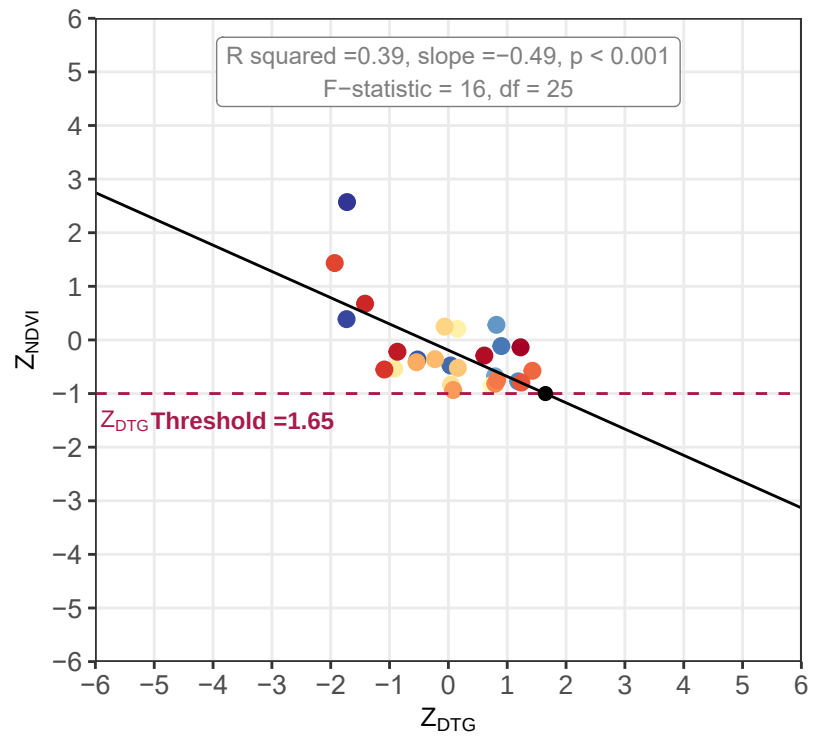
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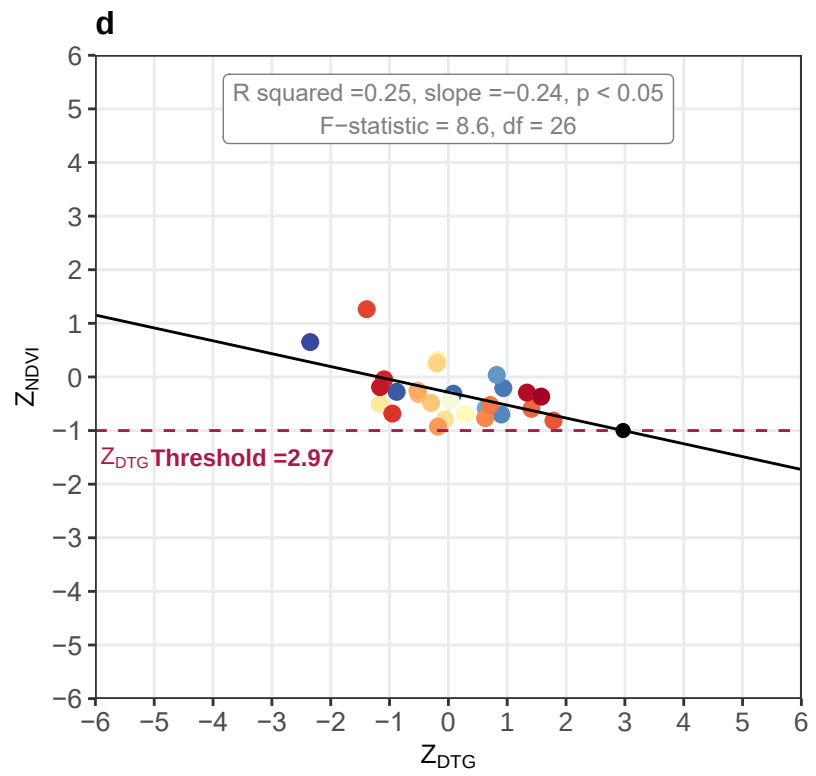
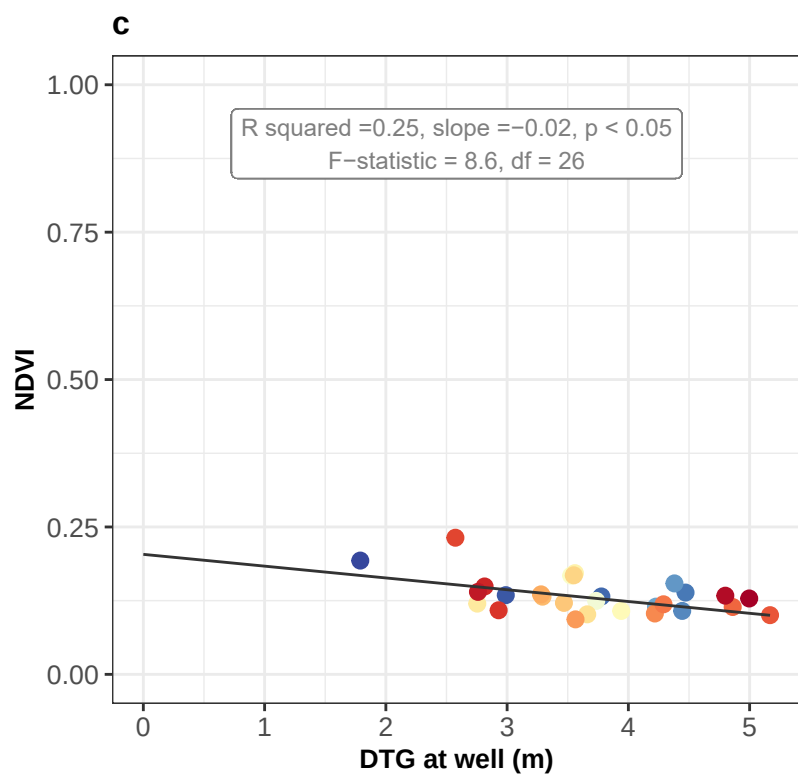
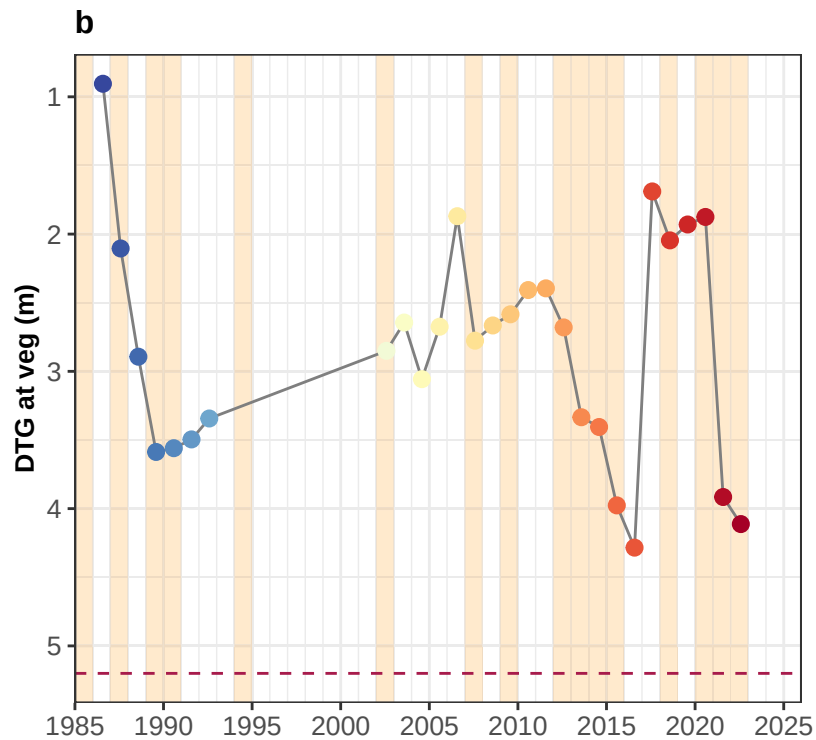
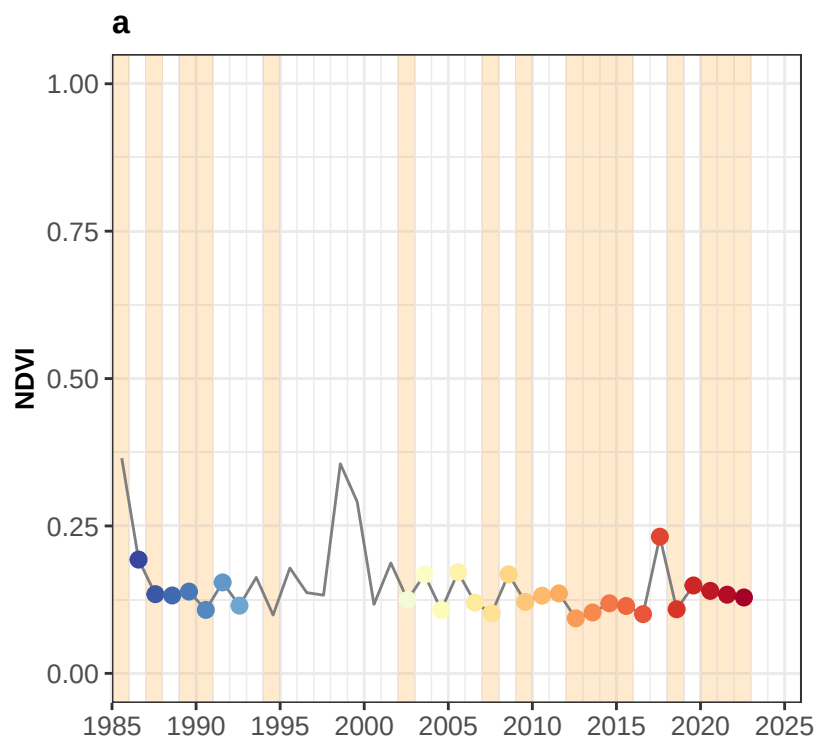
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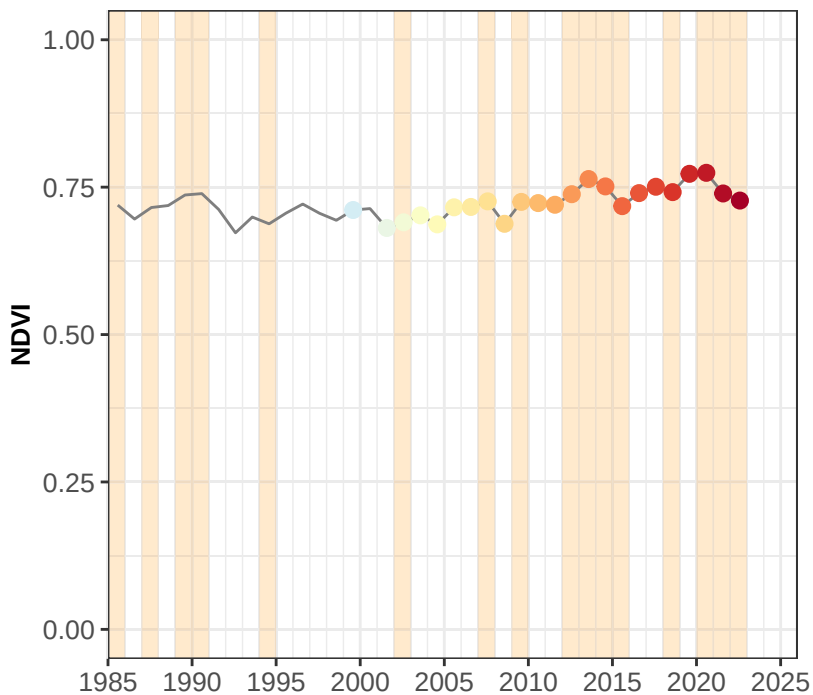


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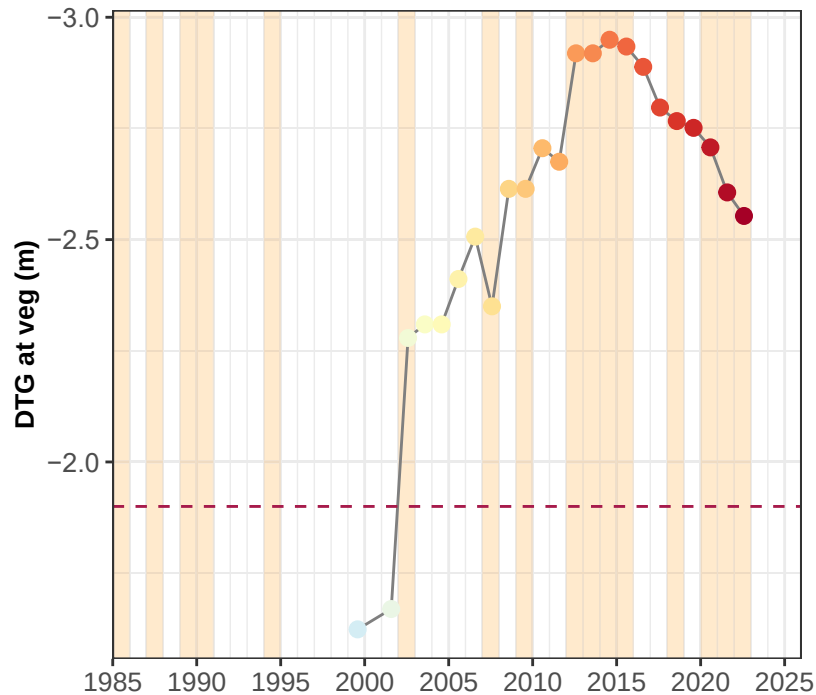


Juglans (gdeID: 126633)

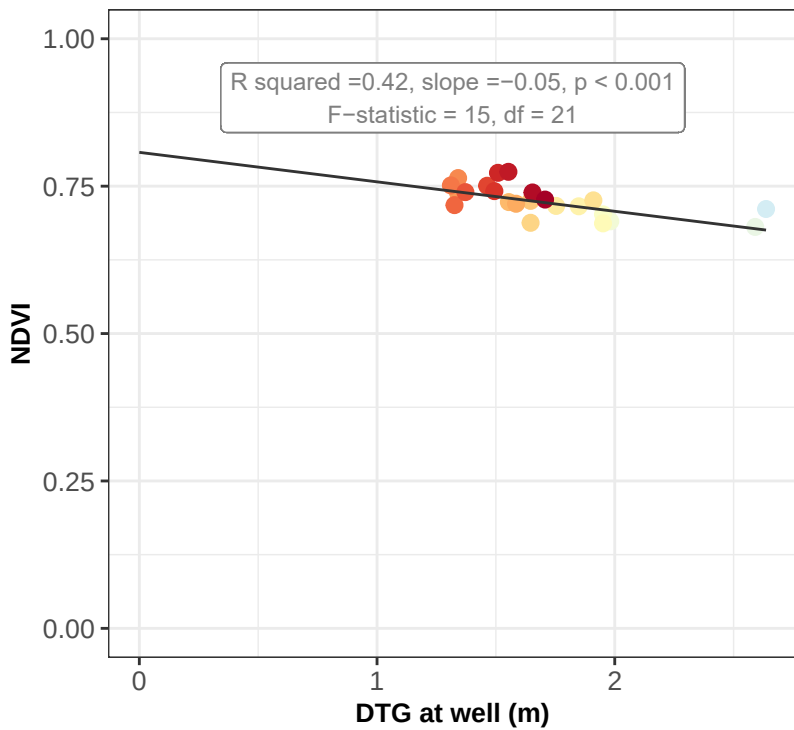
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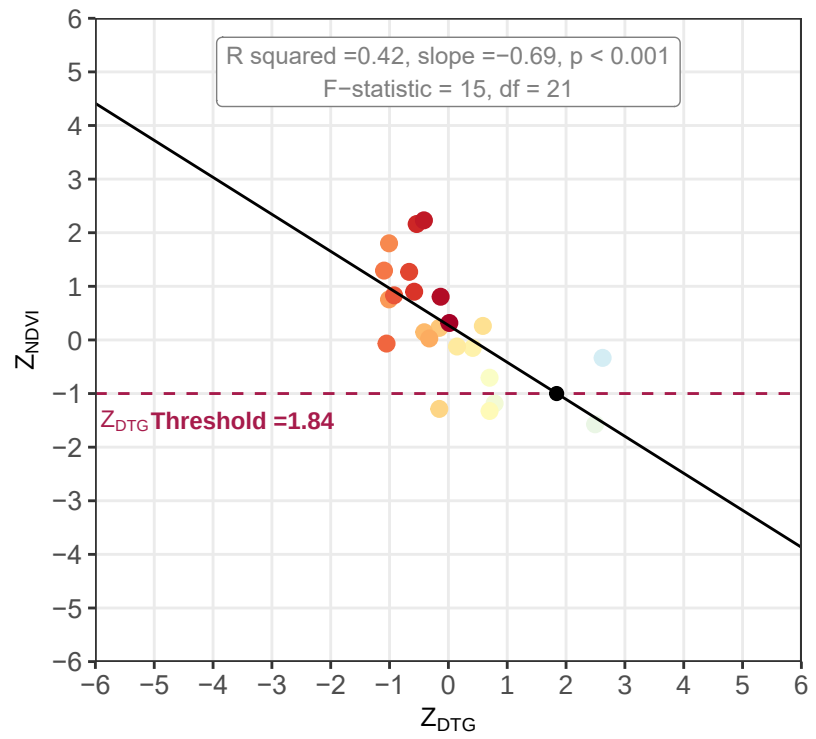
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c

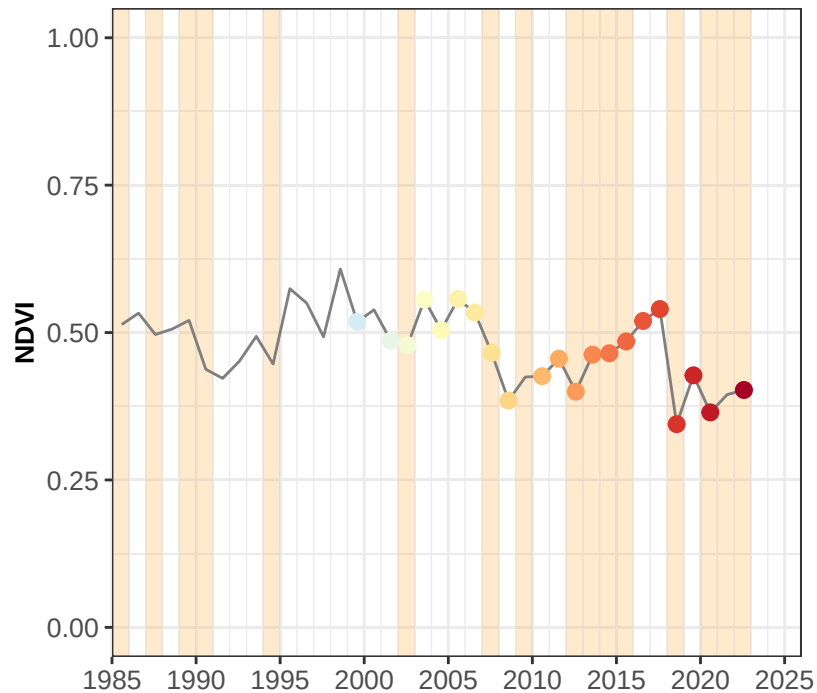


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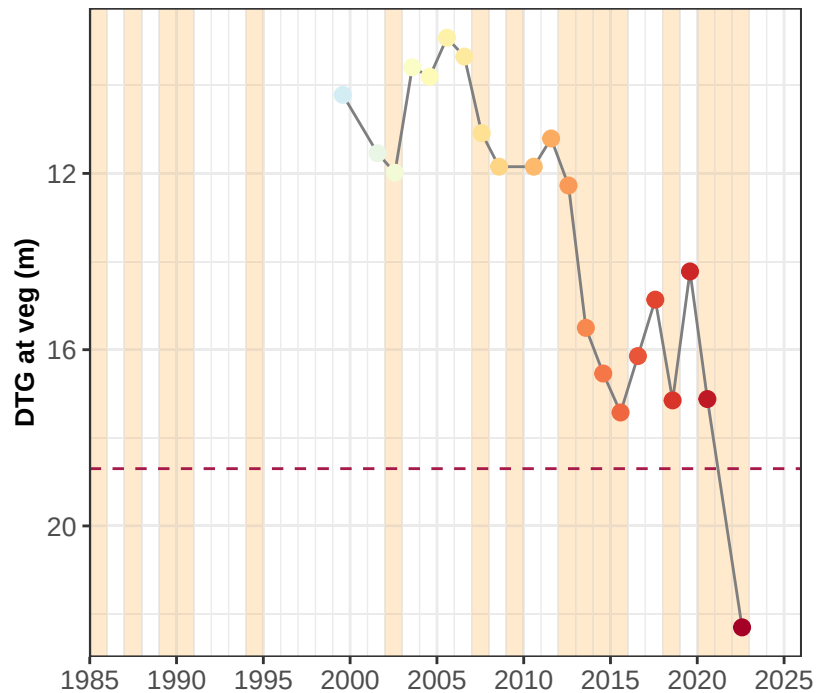


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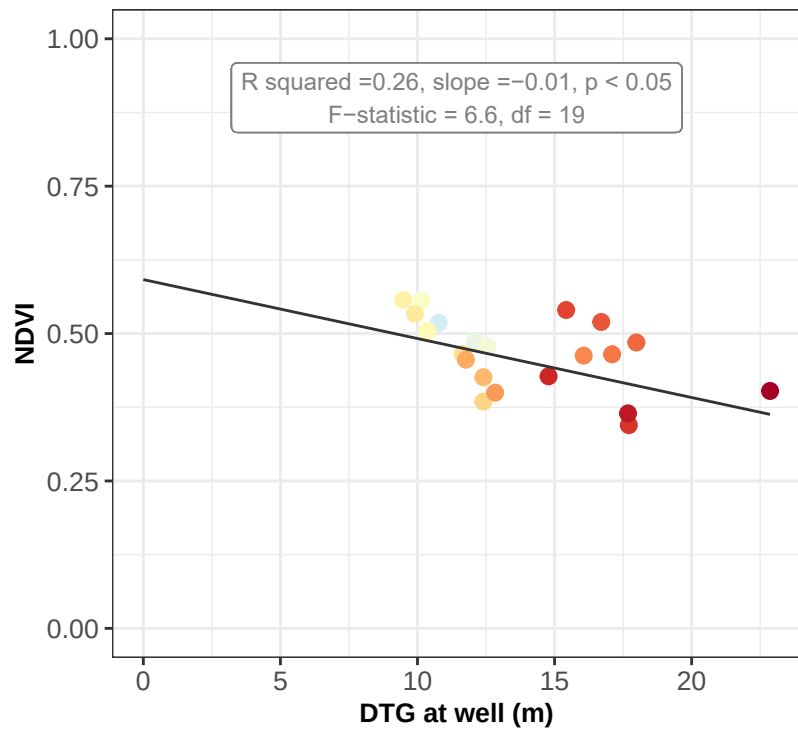
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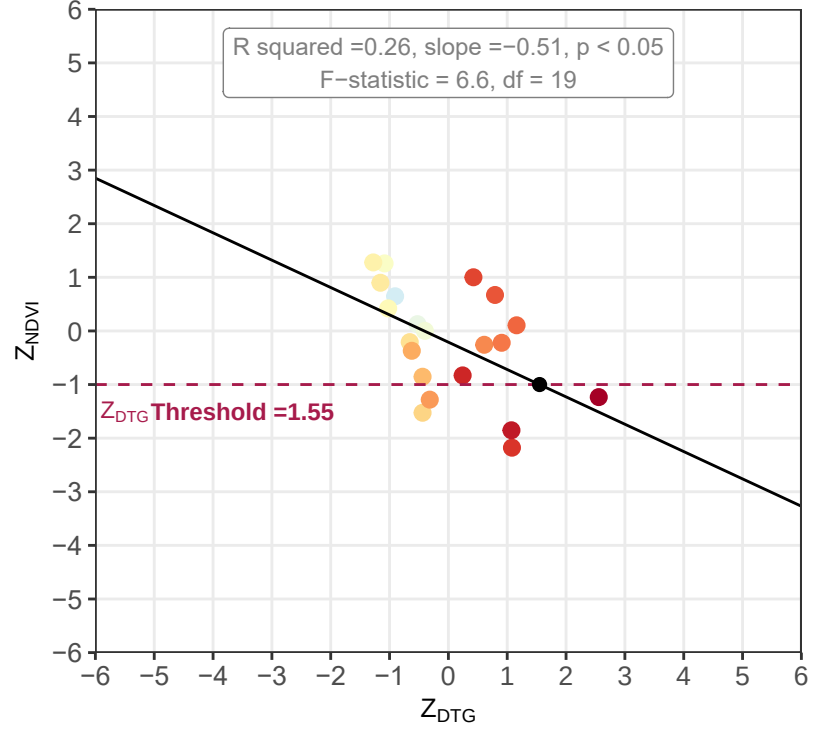
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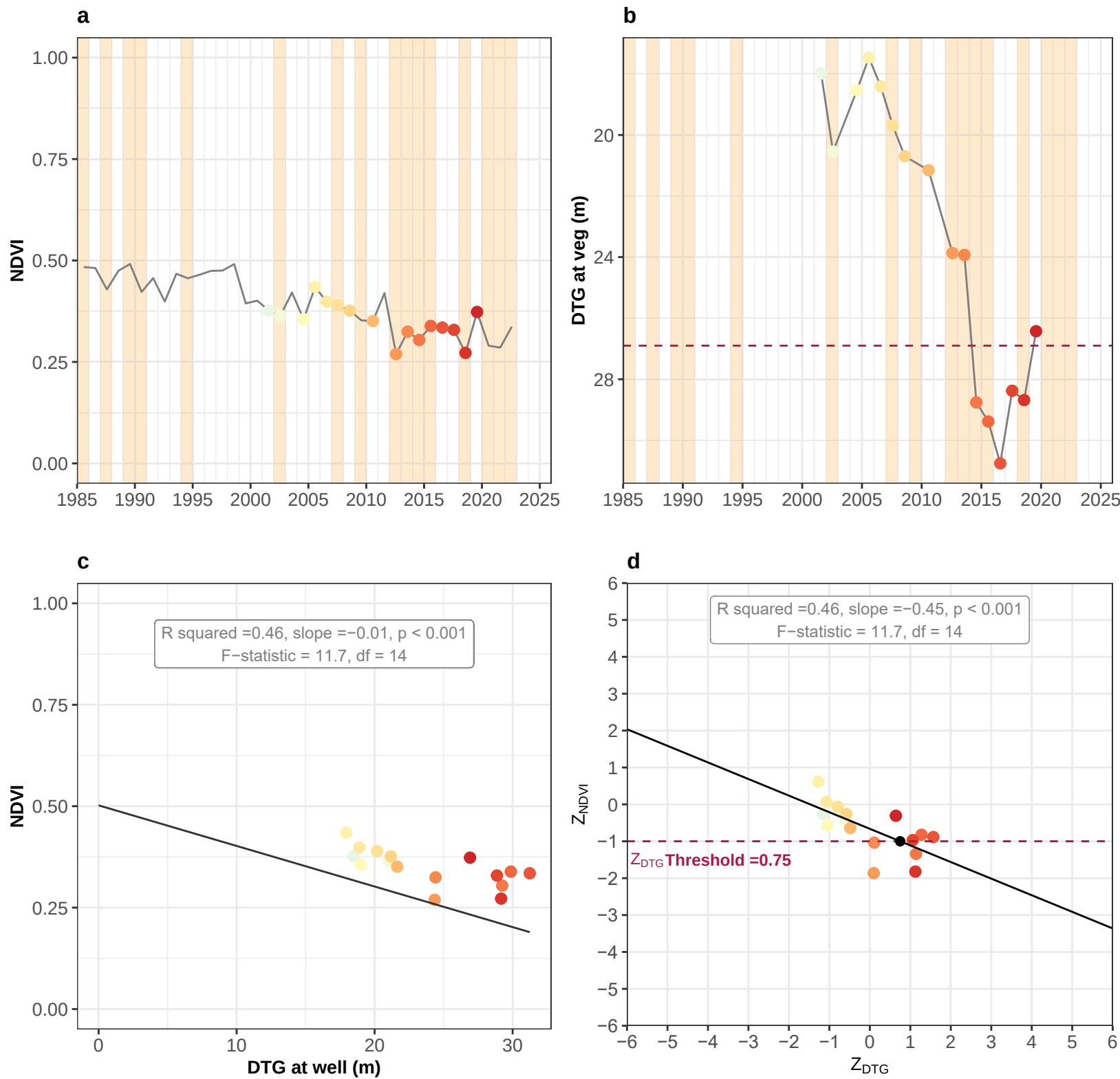
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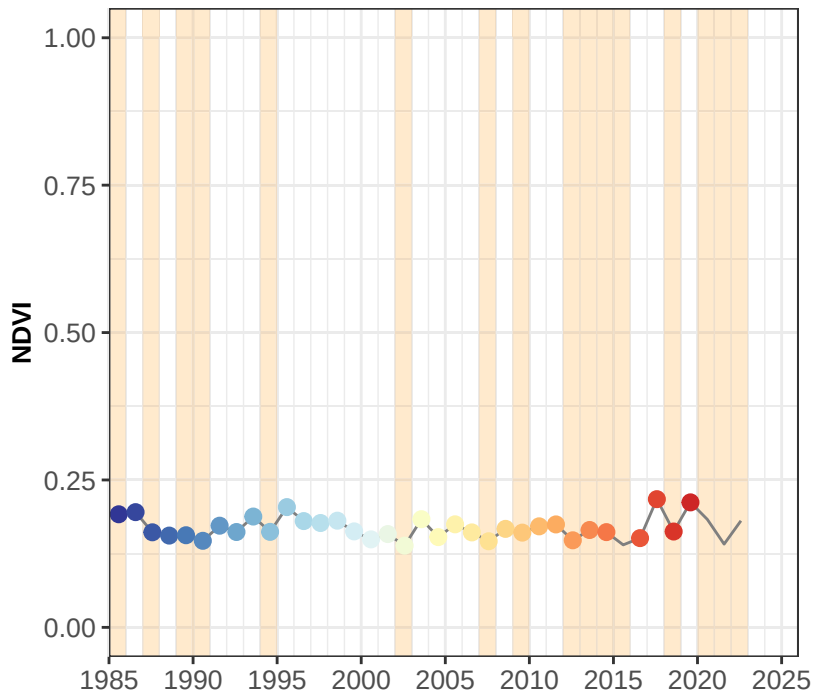


Juglans (gdeID: 126888)

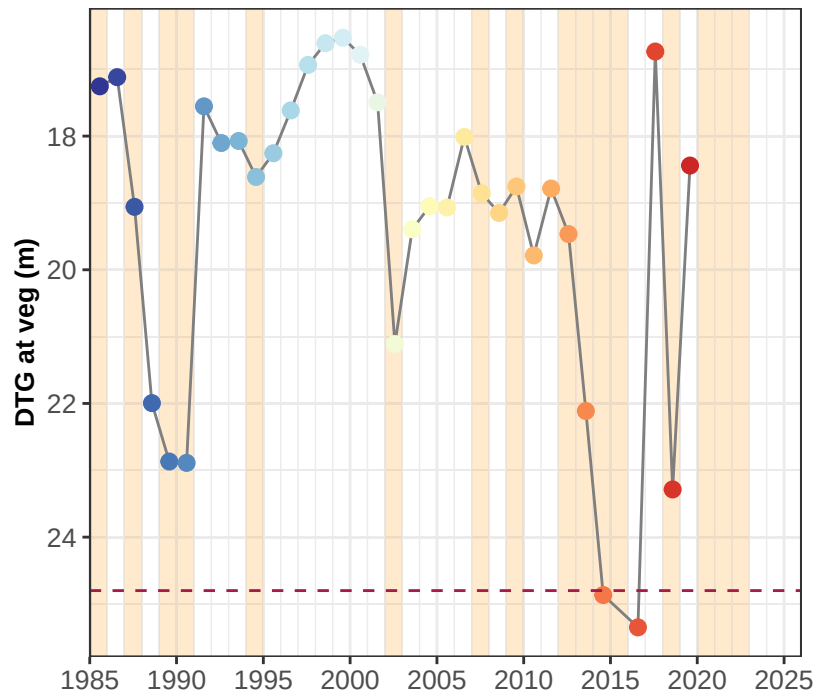


(gdeID: 127382)

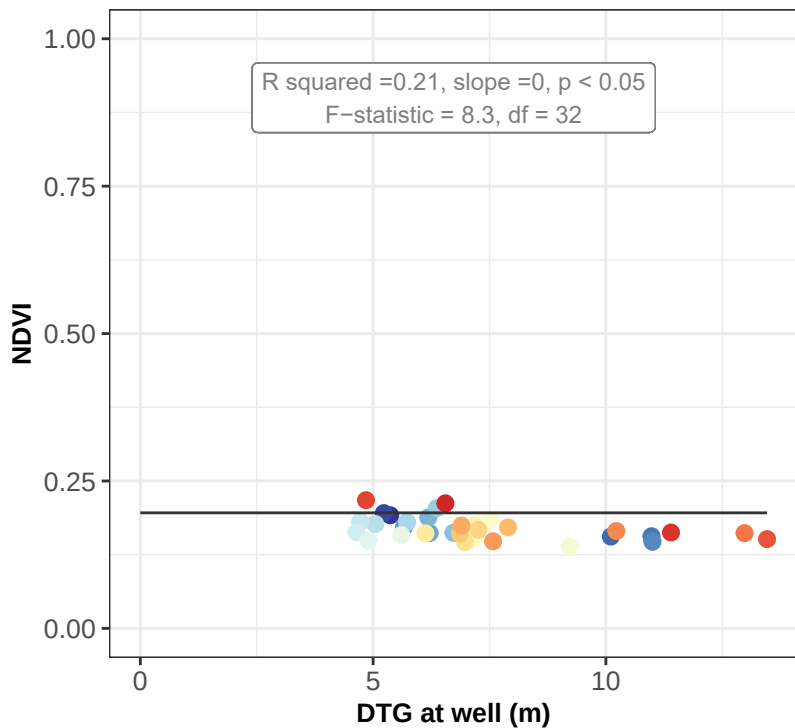
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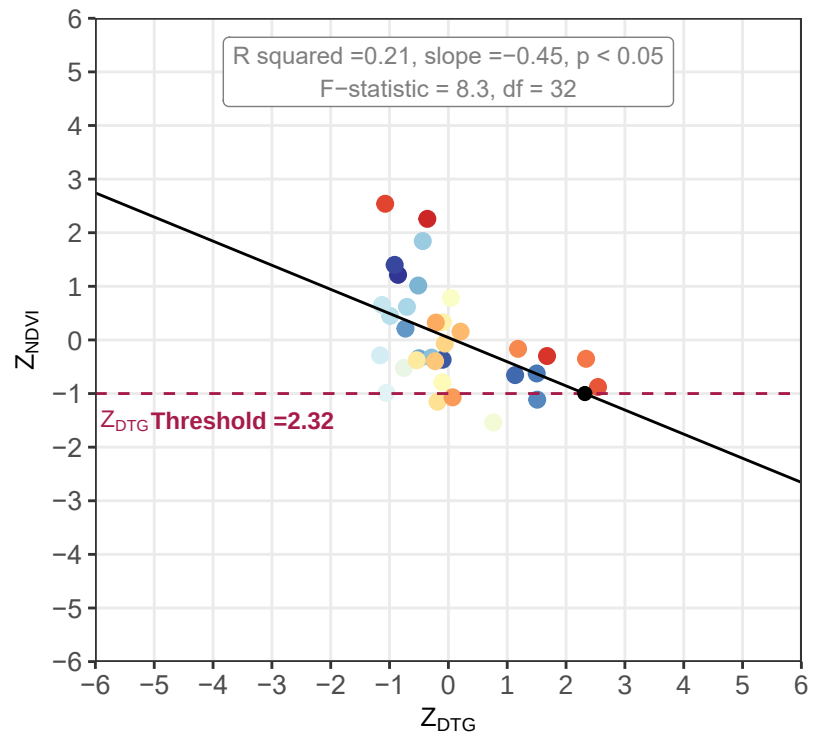
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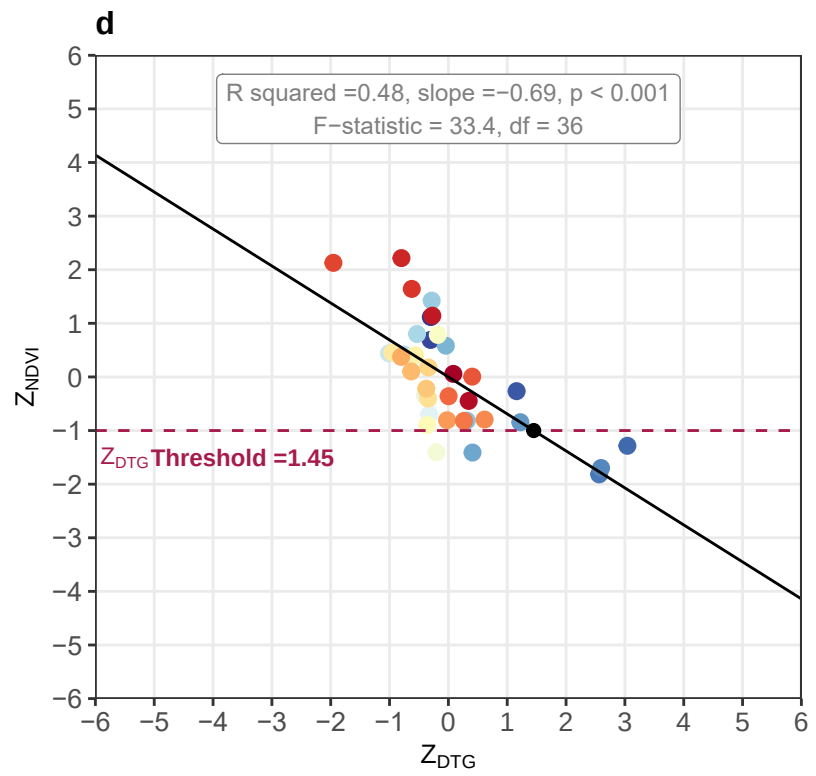
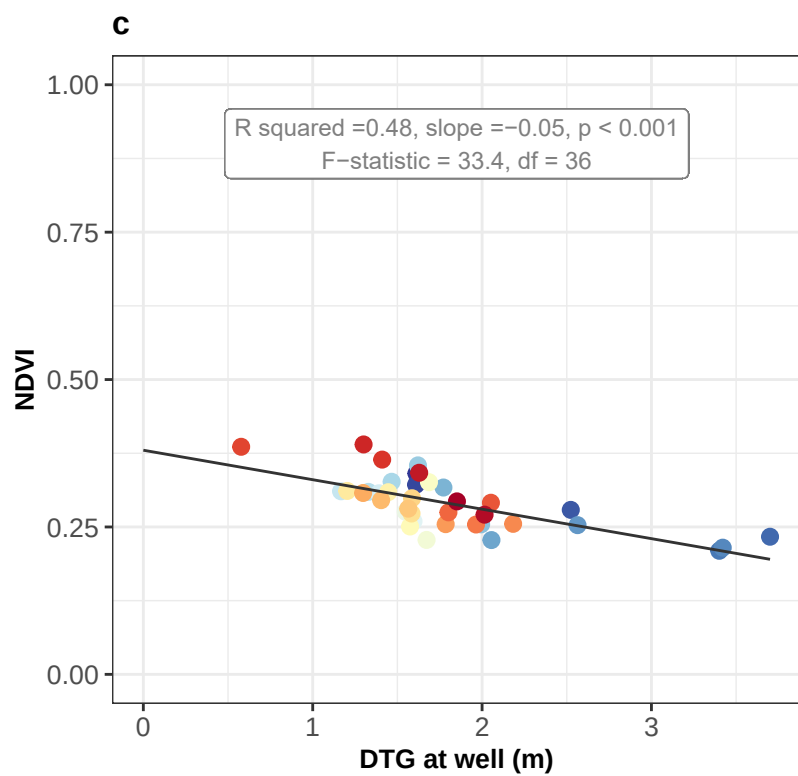
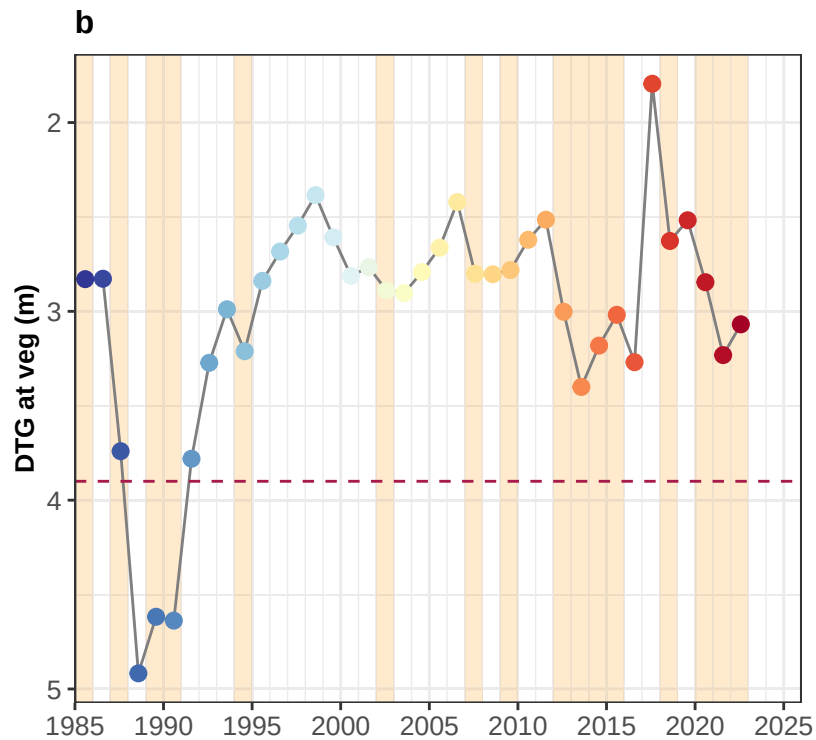
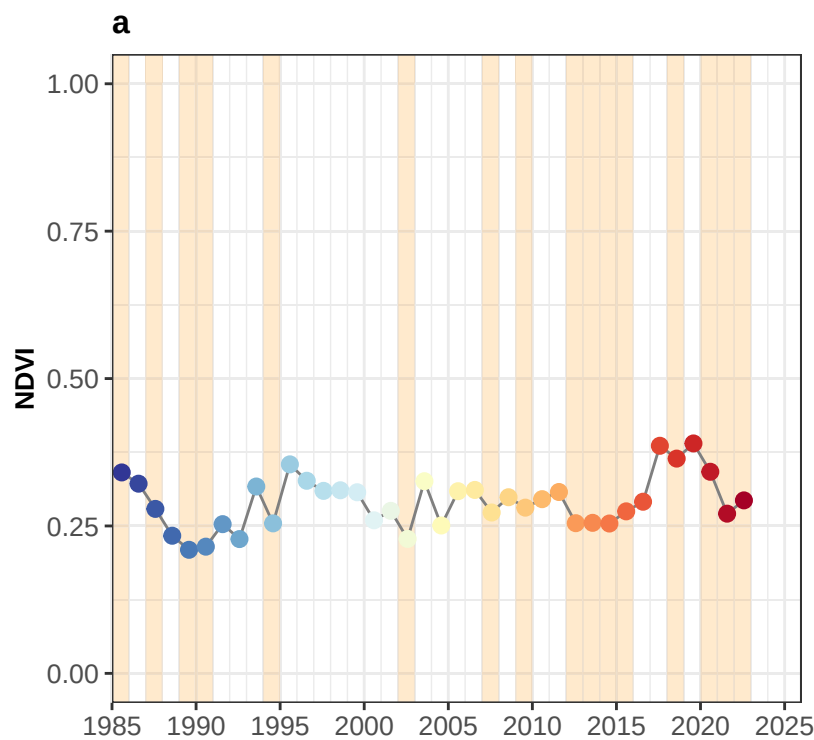
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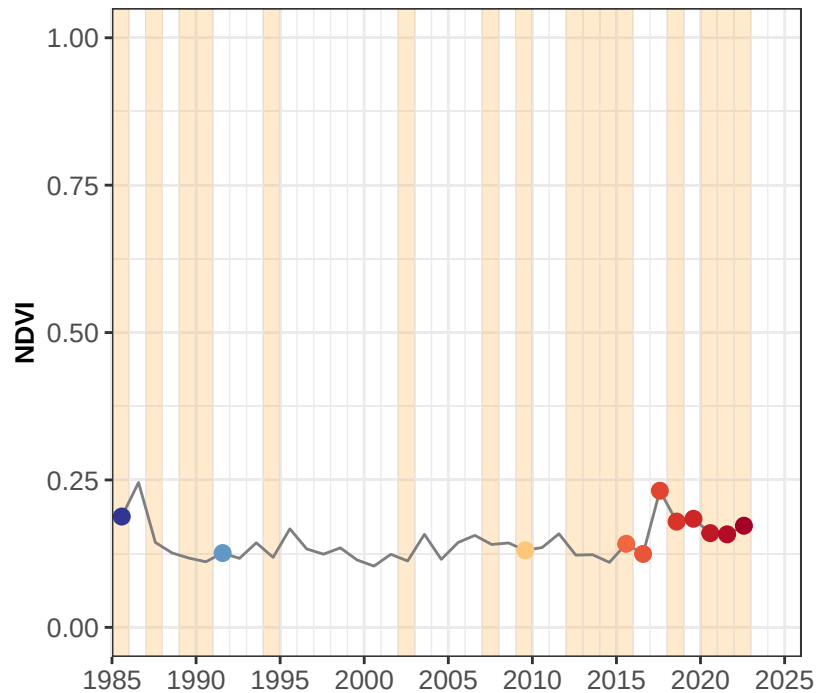


(gdeID: 127549)

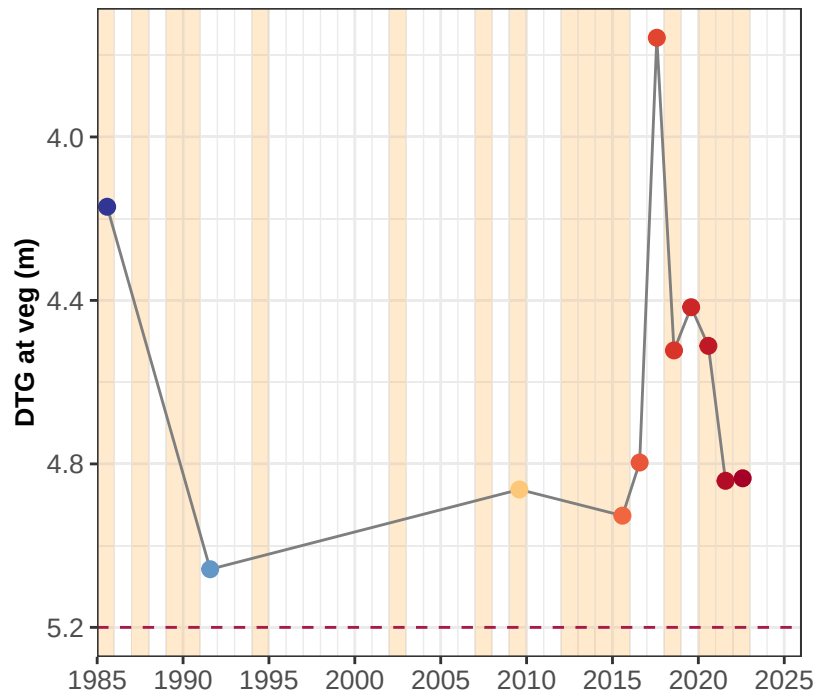


(gdeID: 127987)

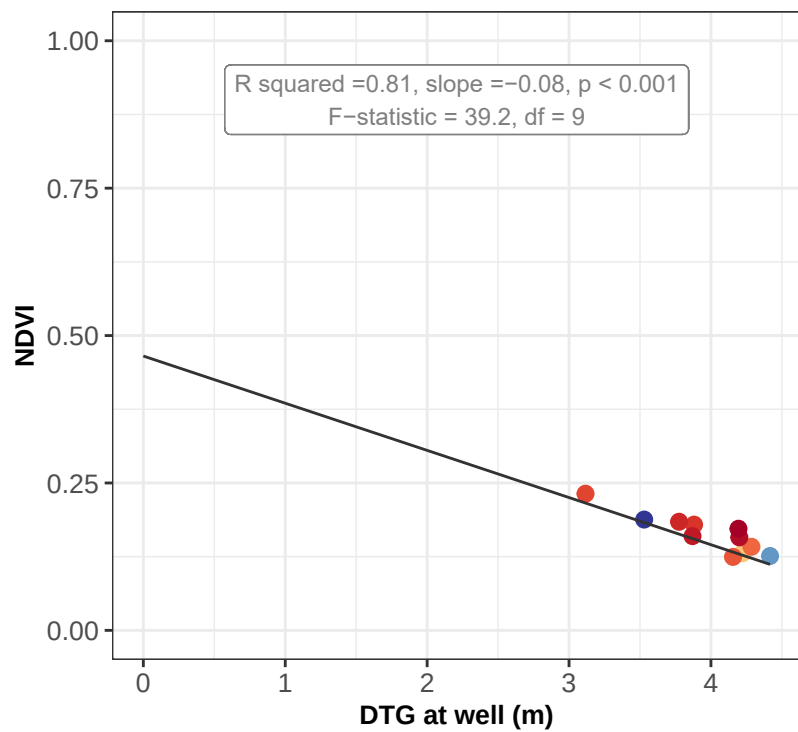
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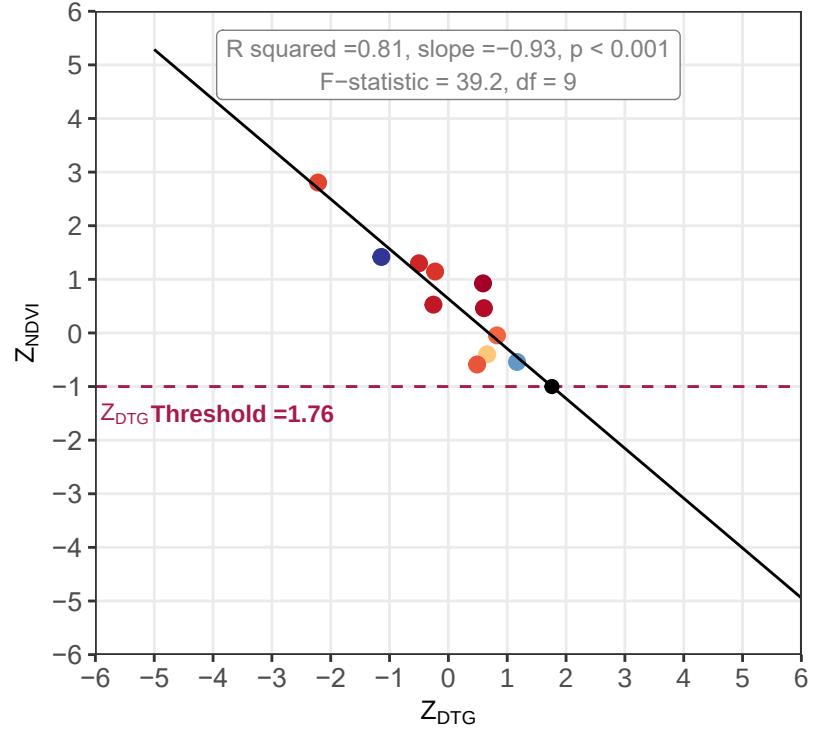
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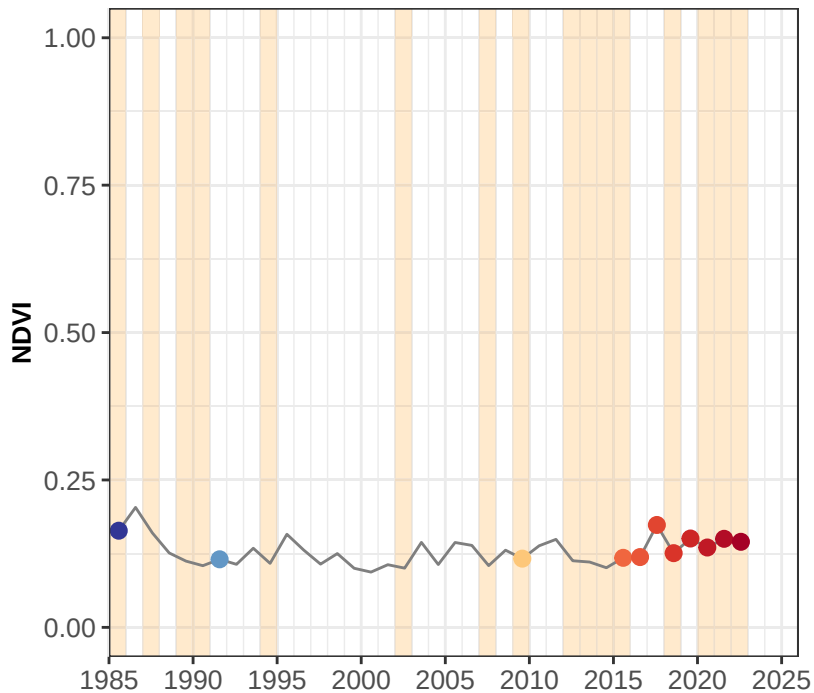


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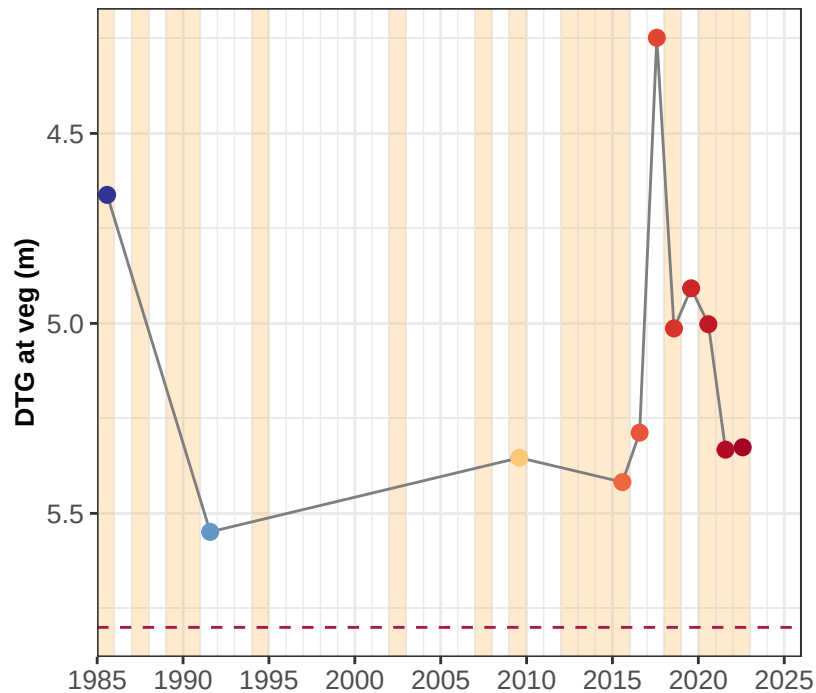


(gdeID: 128019)

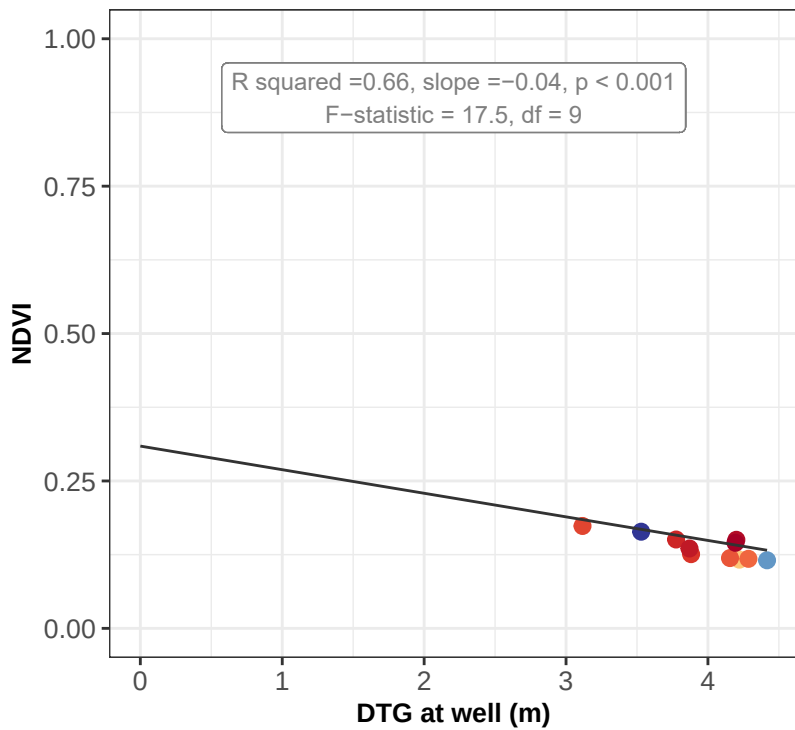
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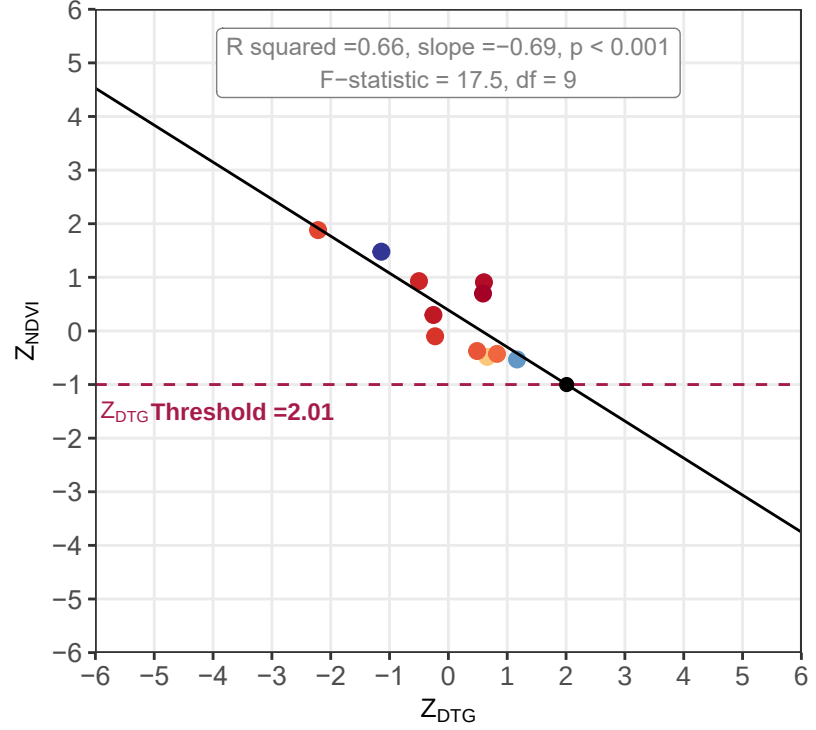
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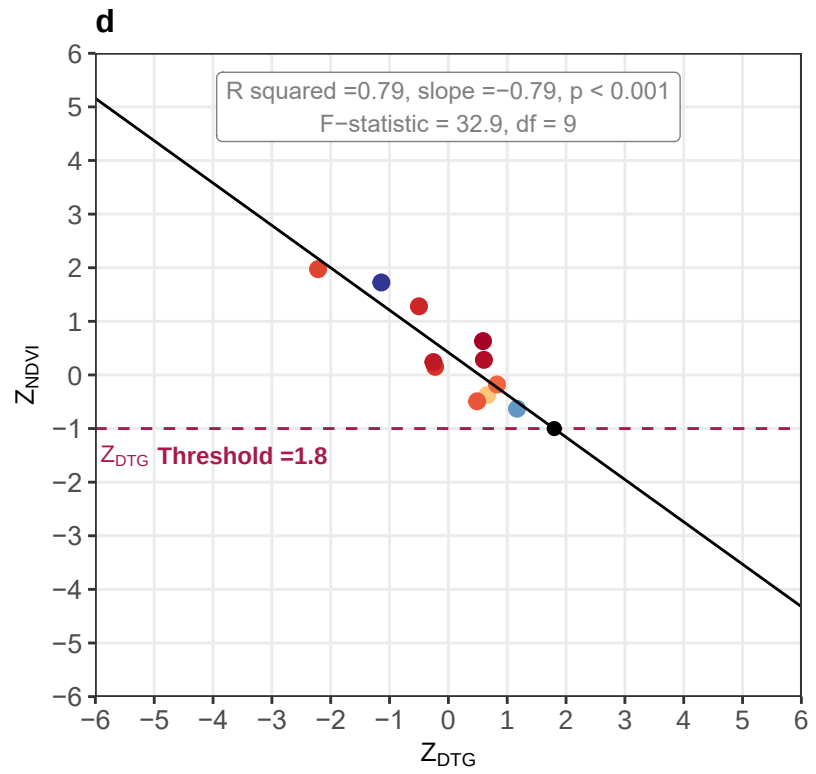
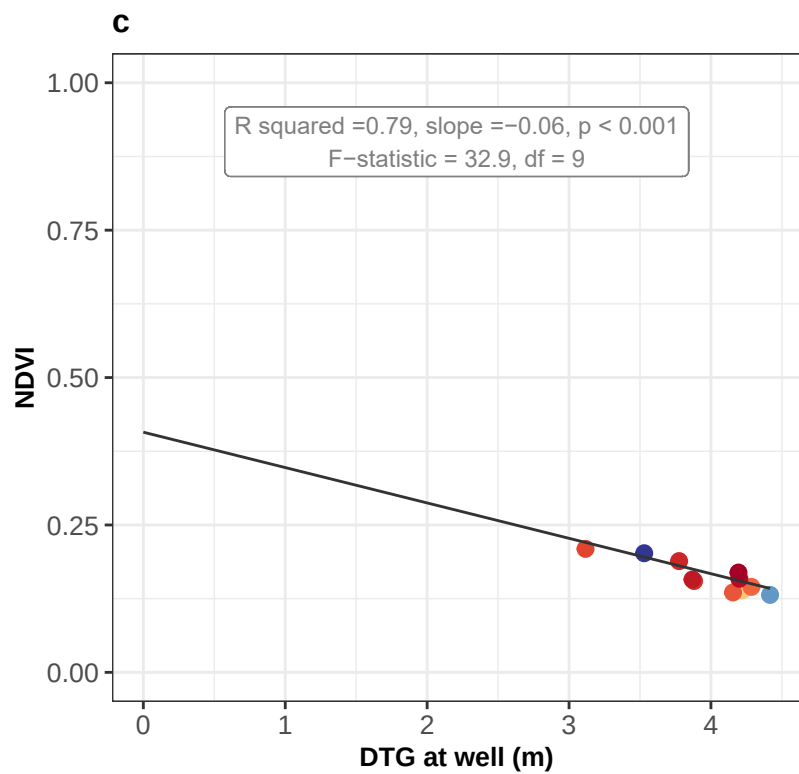
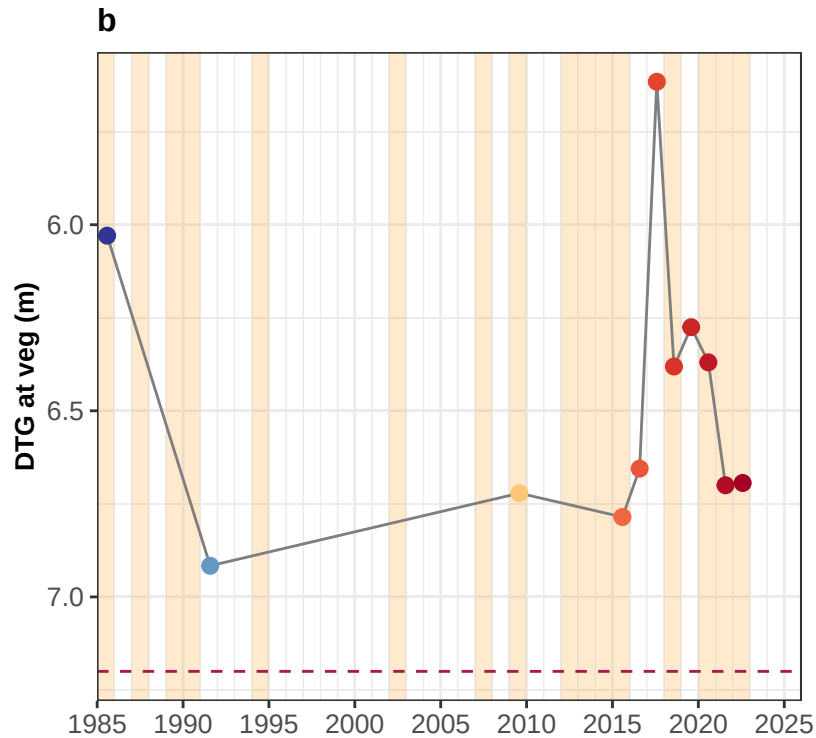
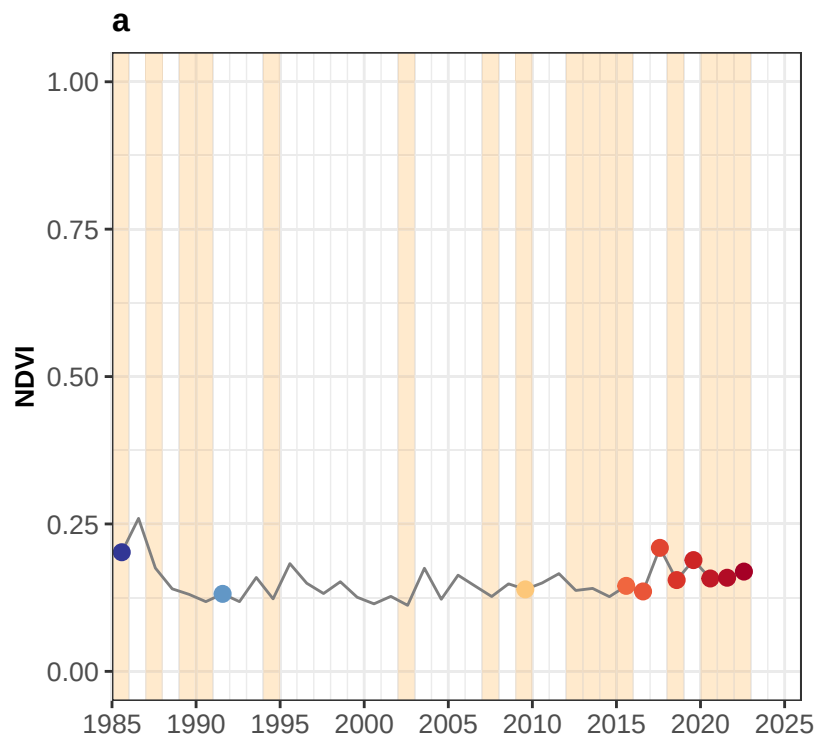
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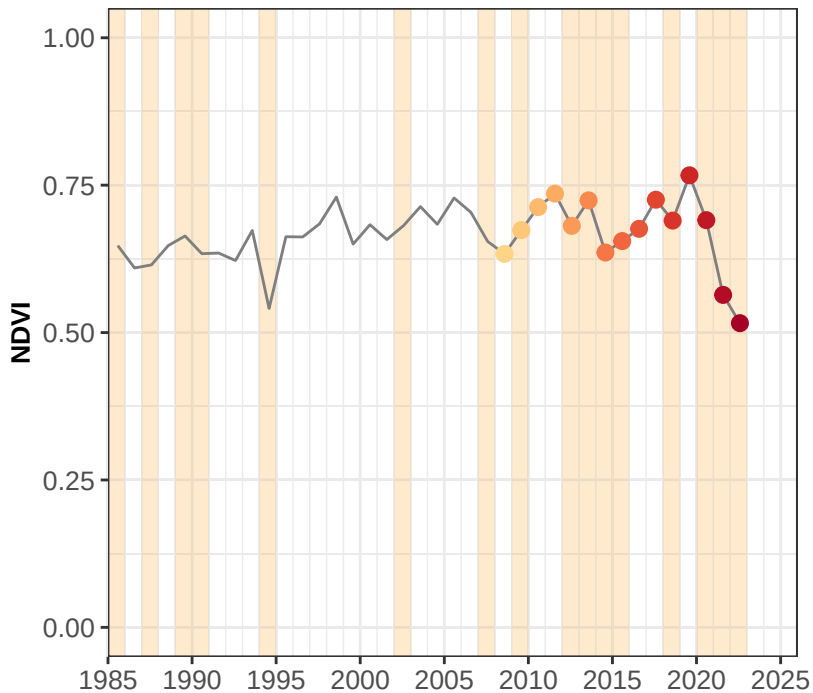


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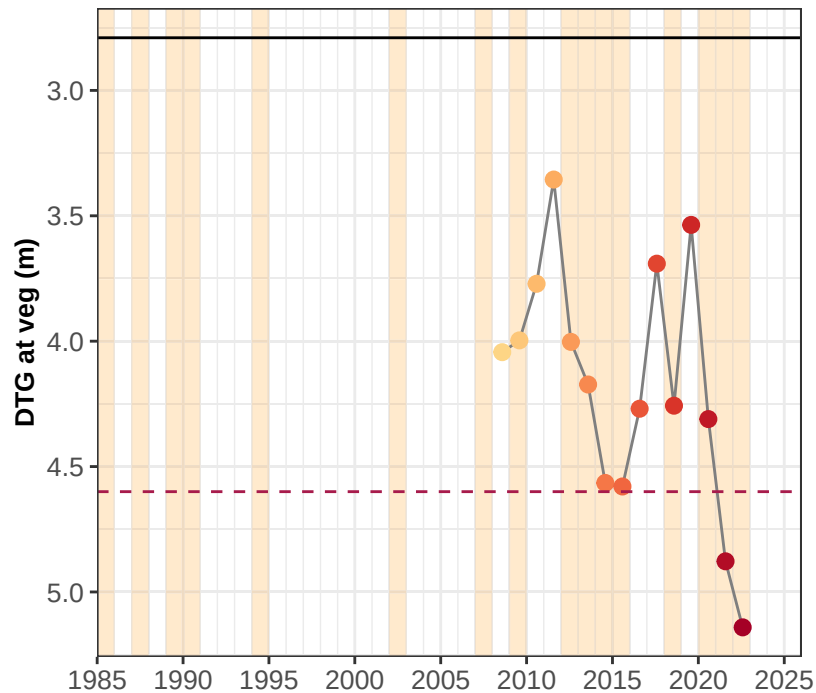


Populus (gdeID: 128071)

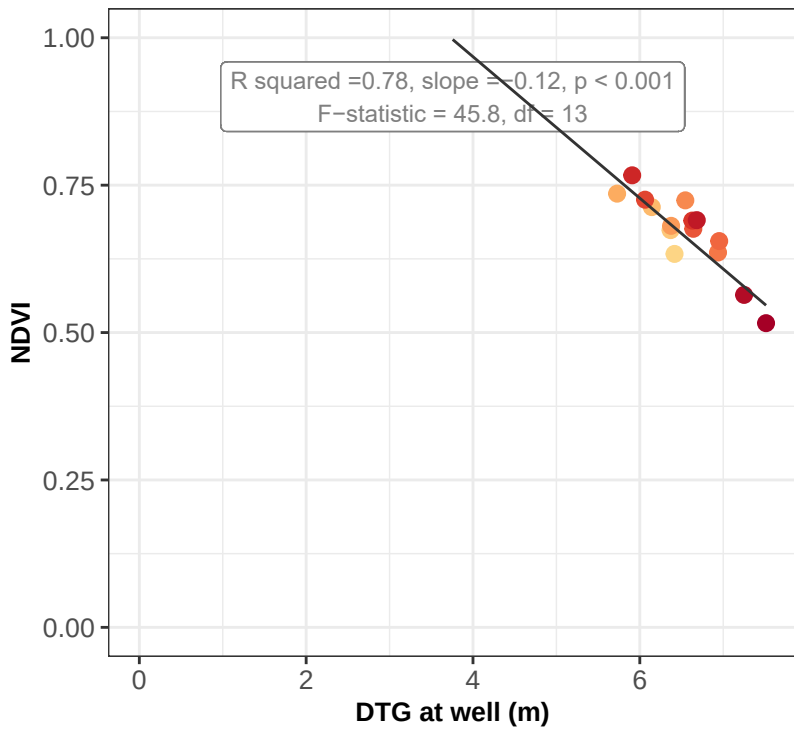
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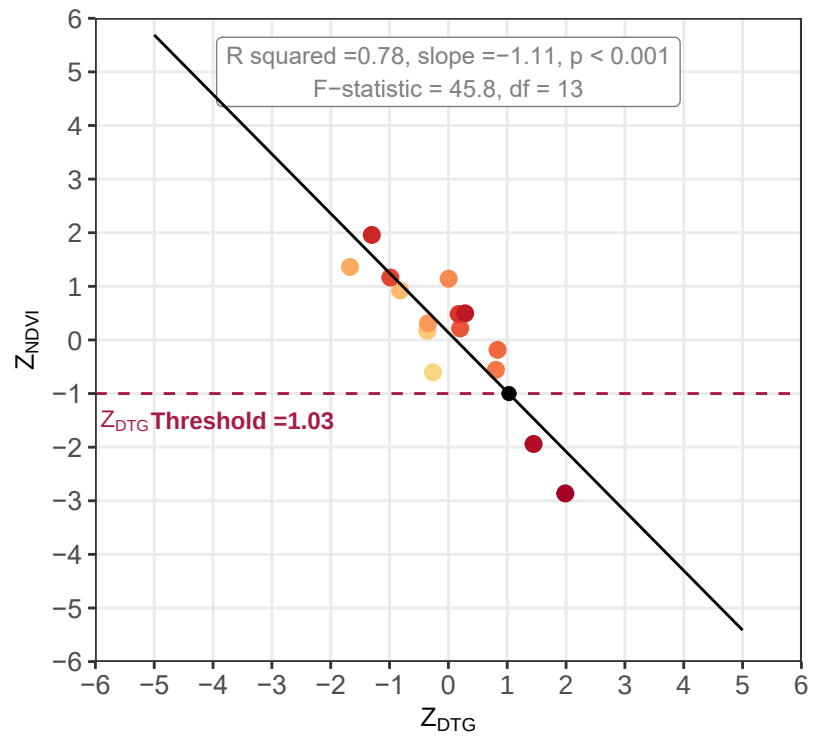
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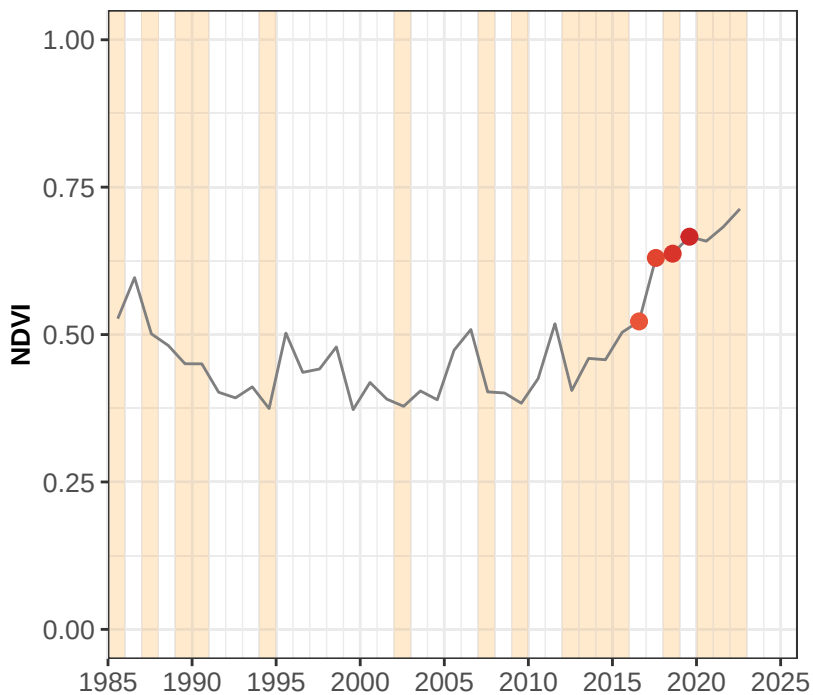


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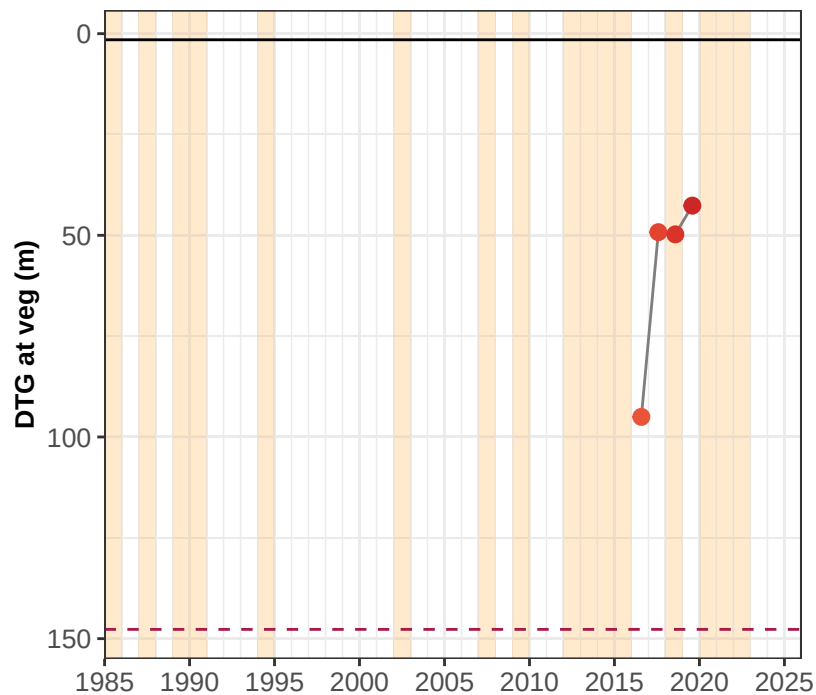


Salix (gdeID: 12828)

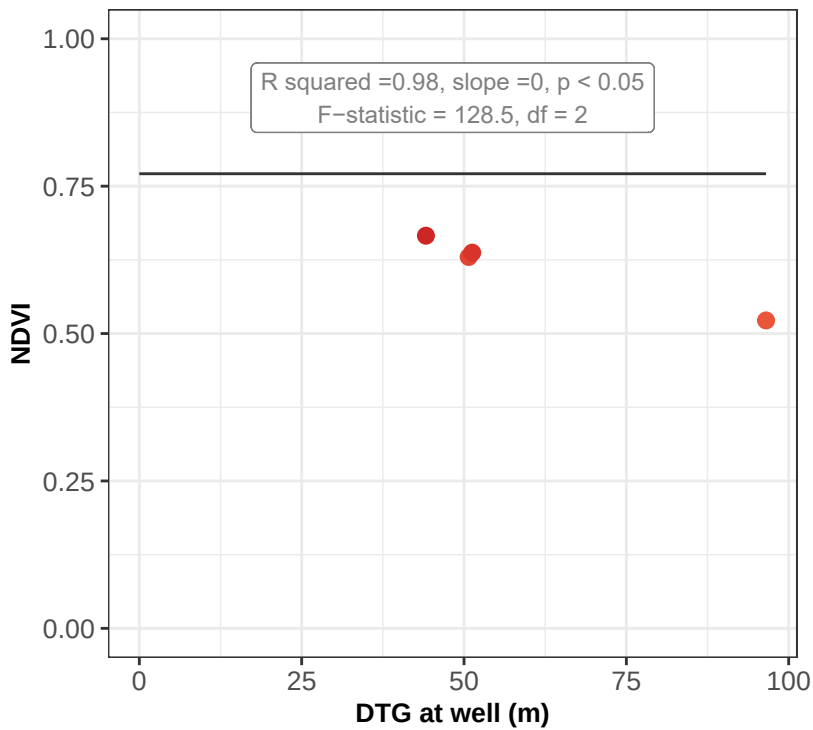
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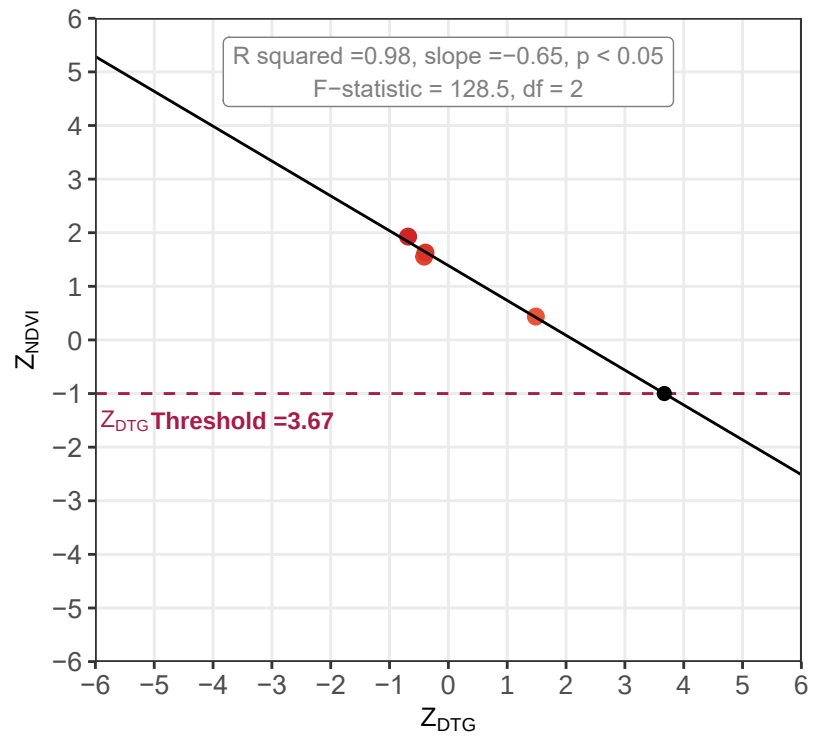
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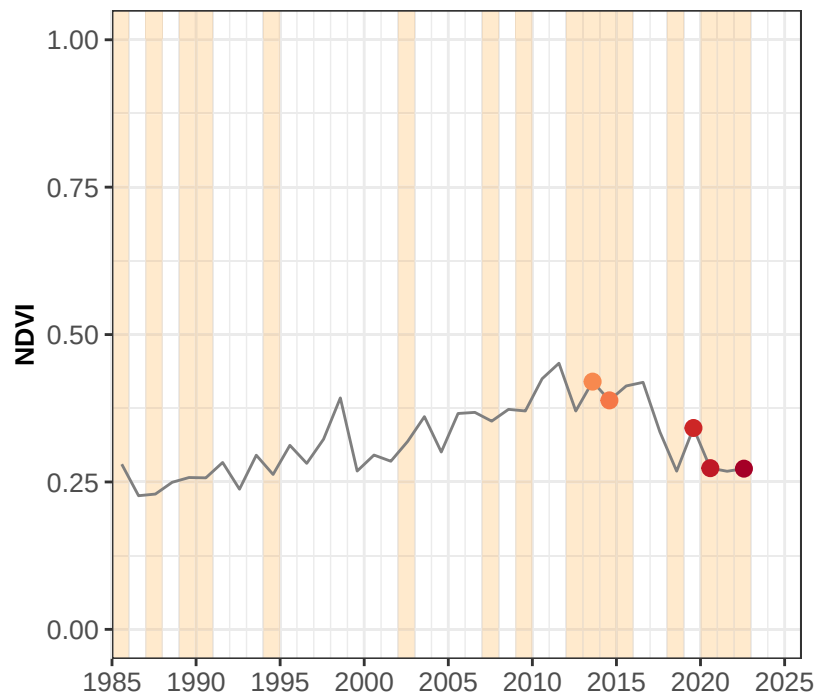


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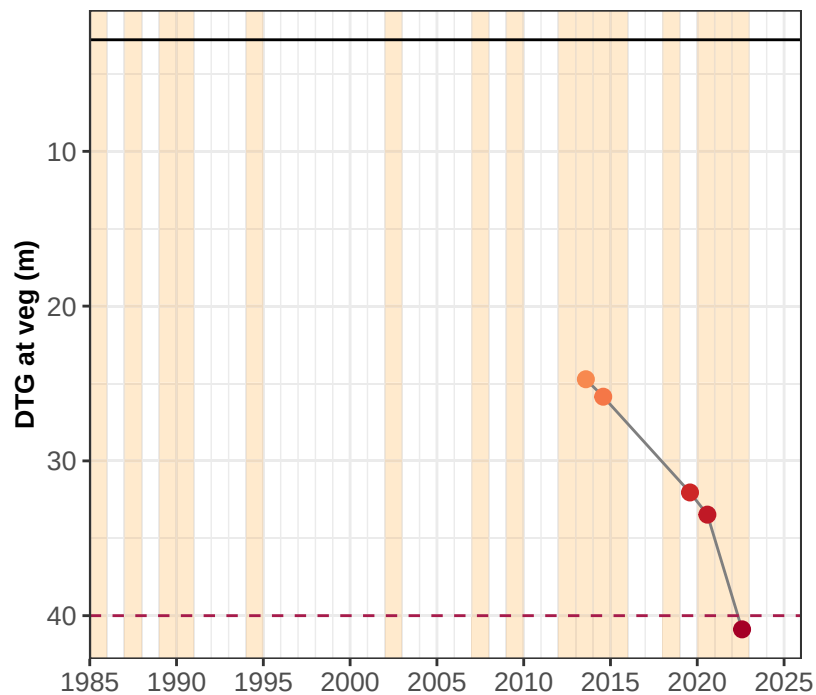


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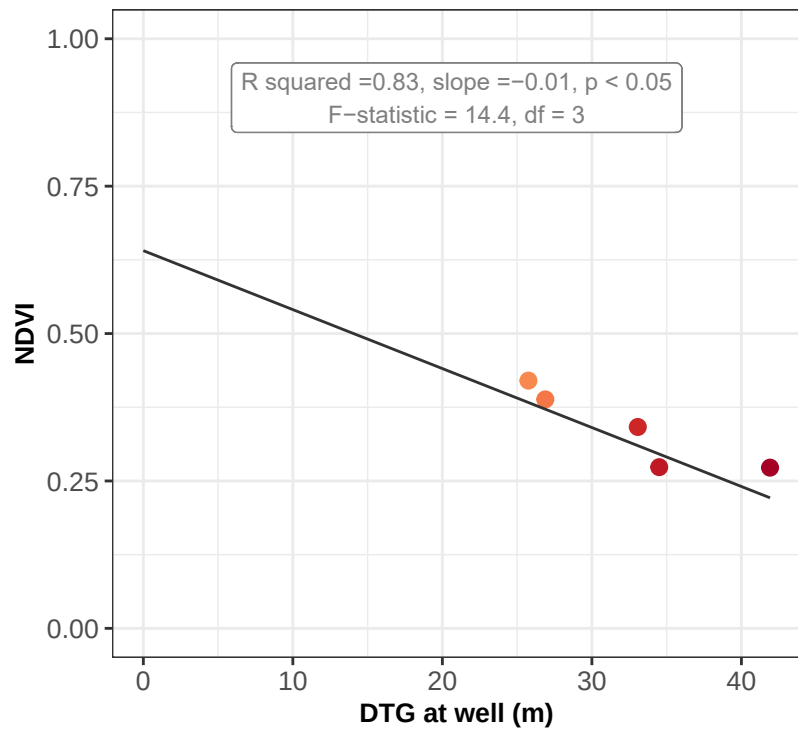
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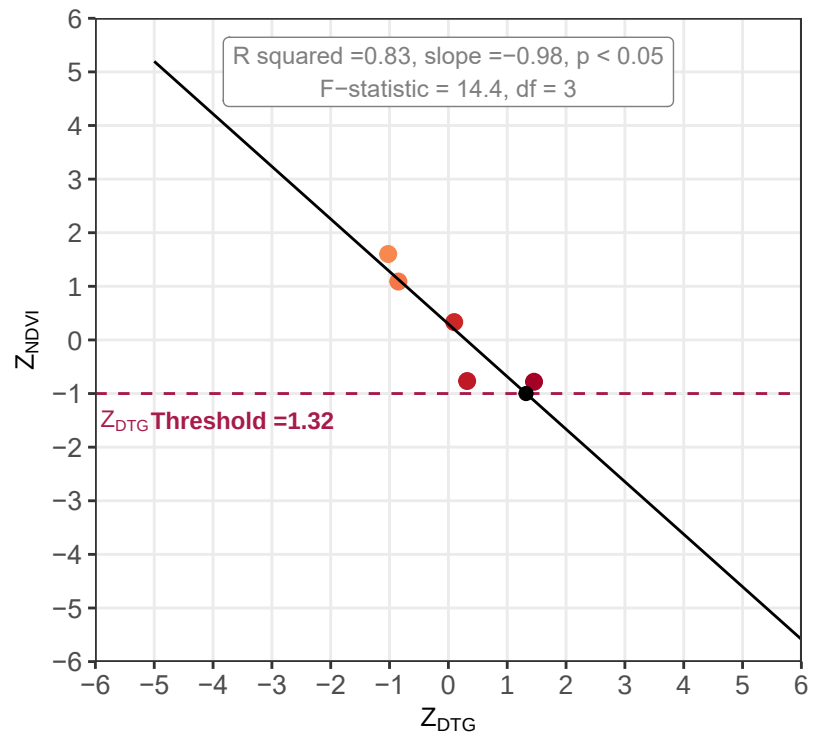
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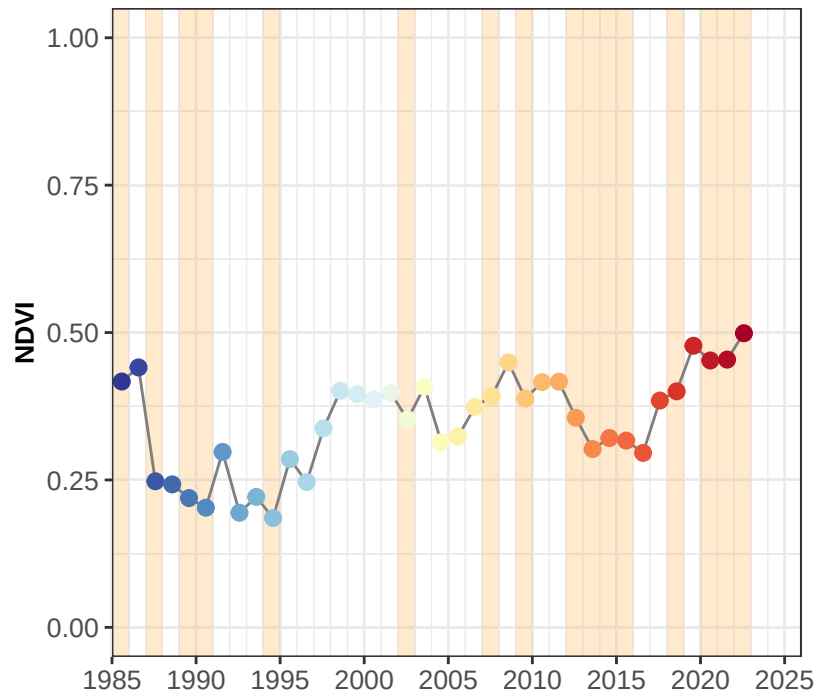


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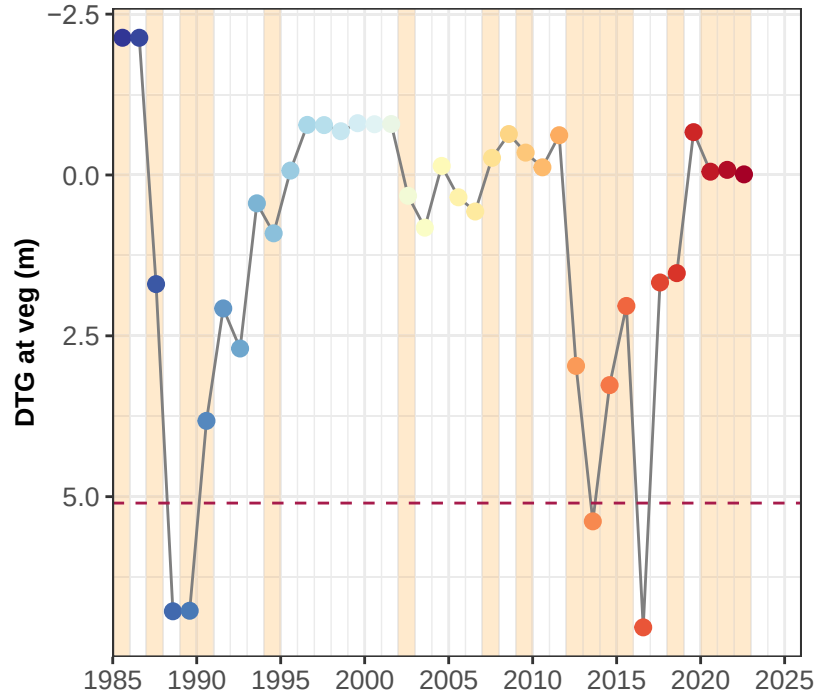


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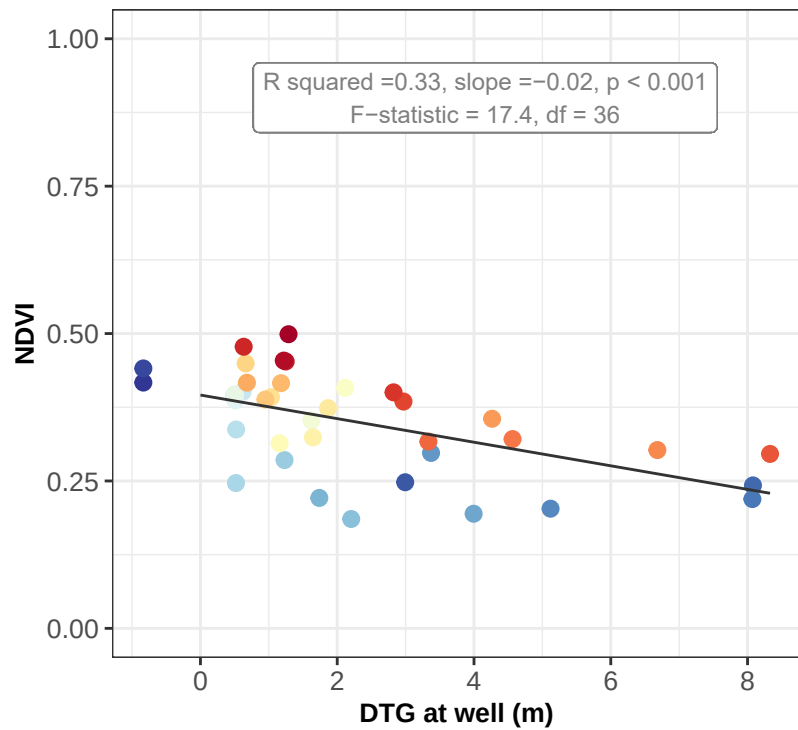
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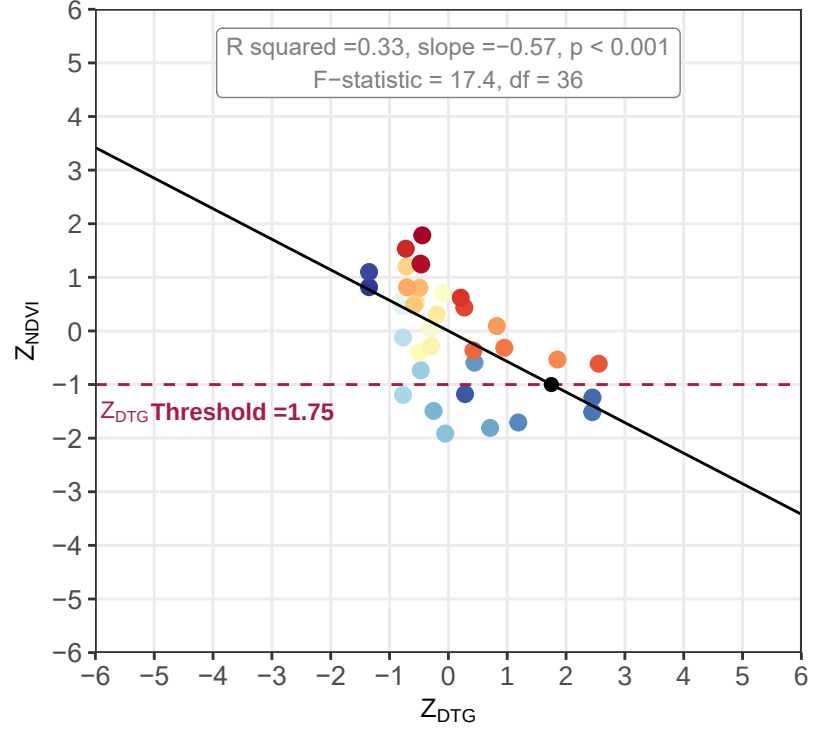
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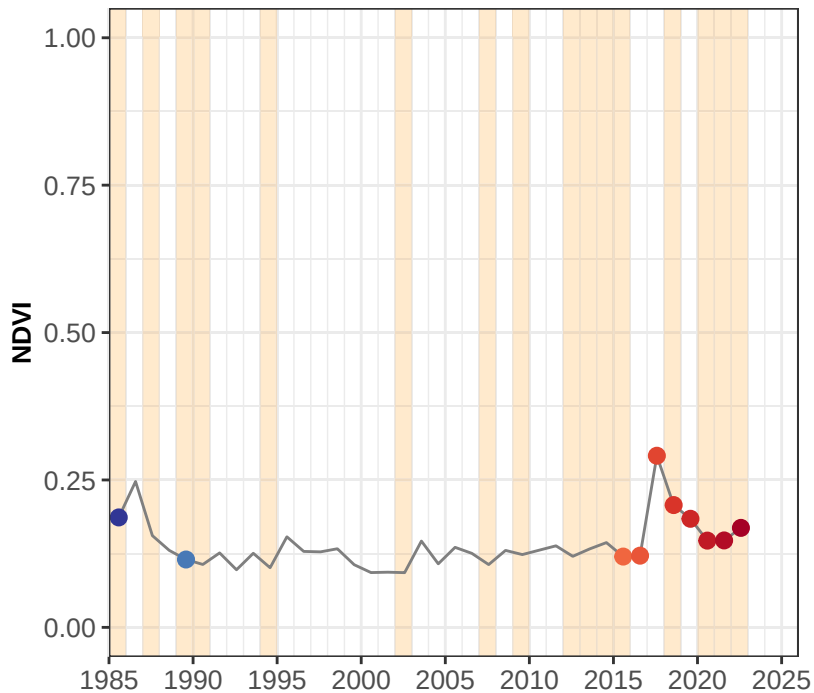


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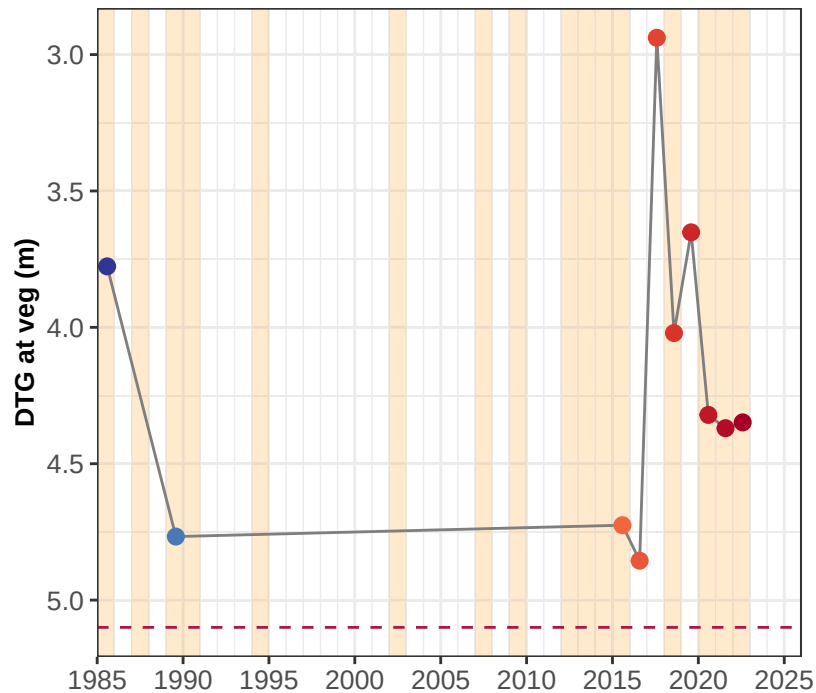


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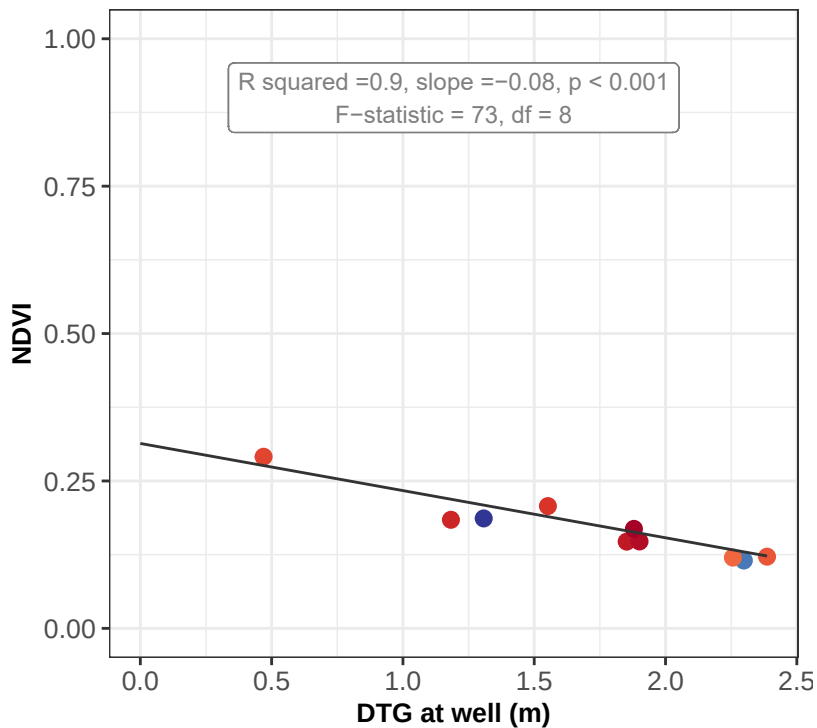
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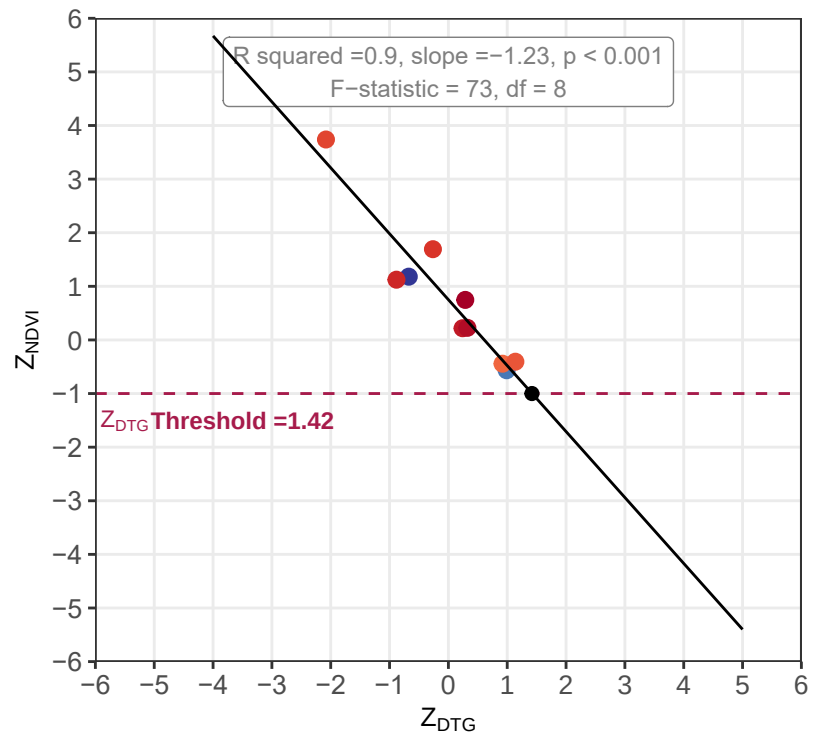
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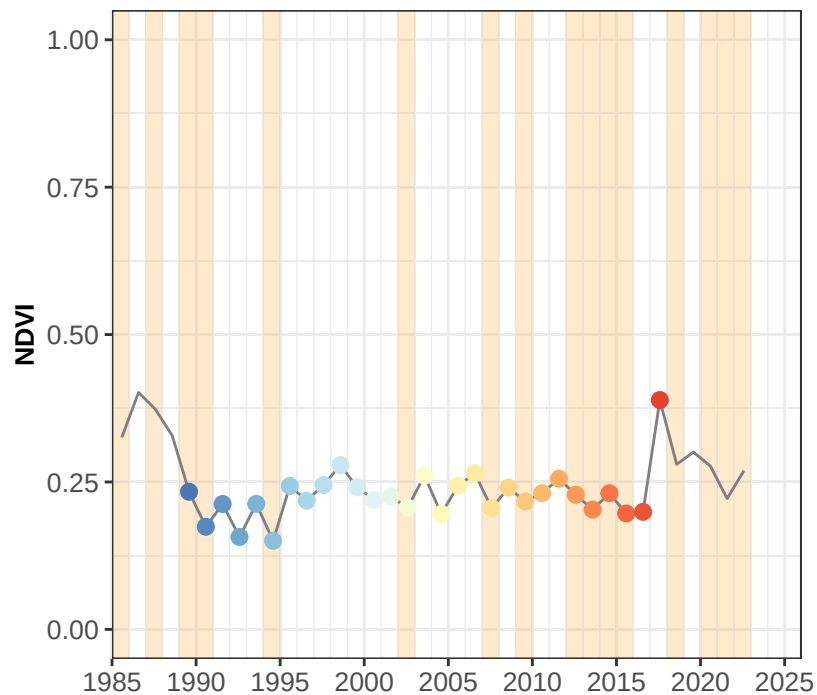


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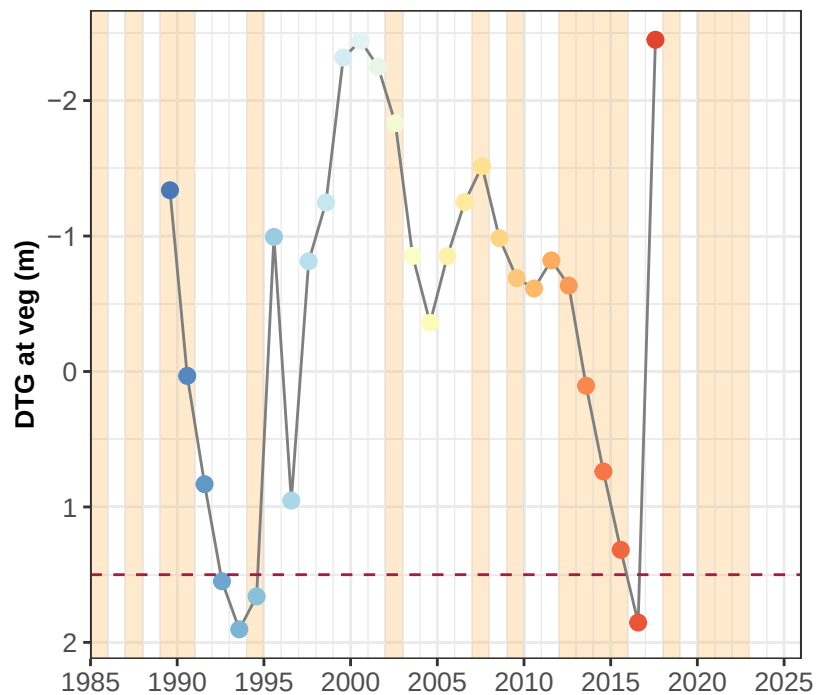


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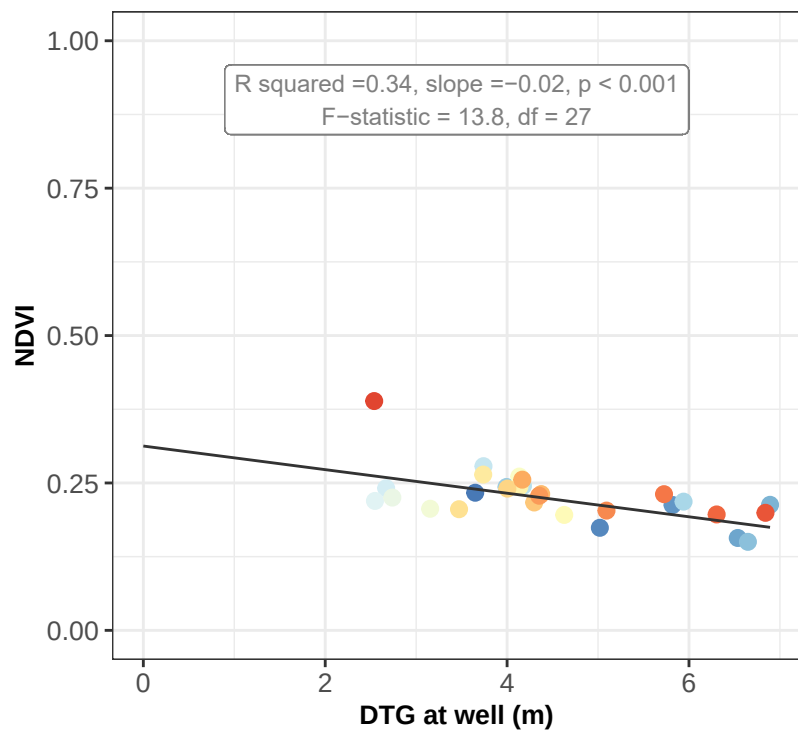
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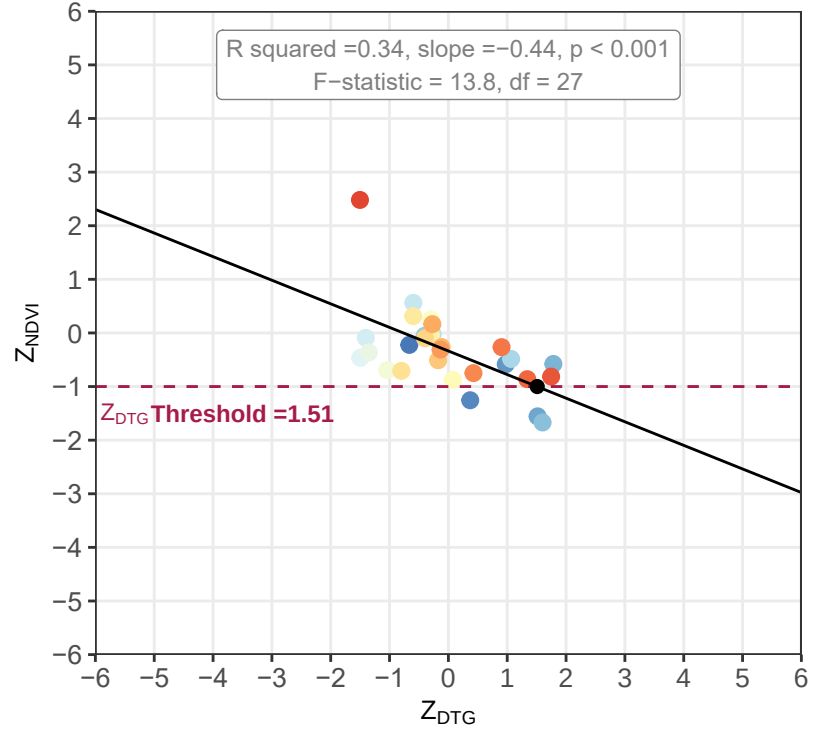
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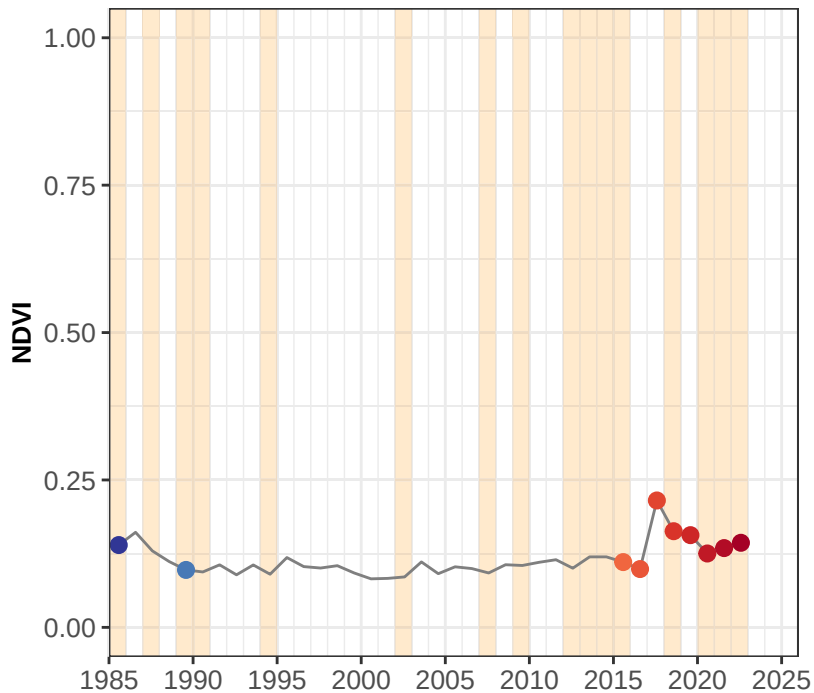


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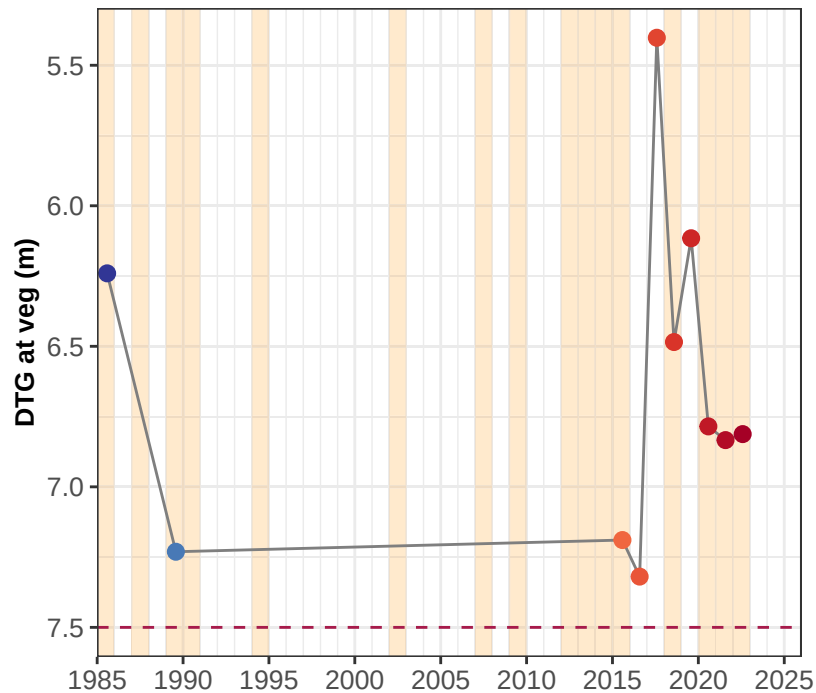


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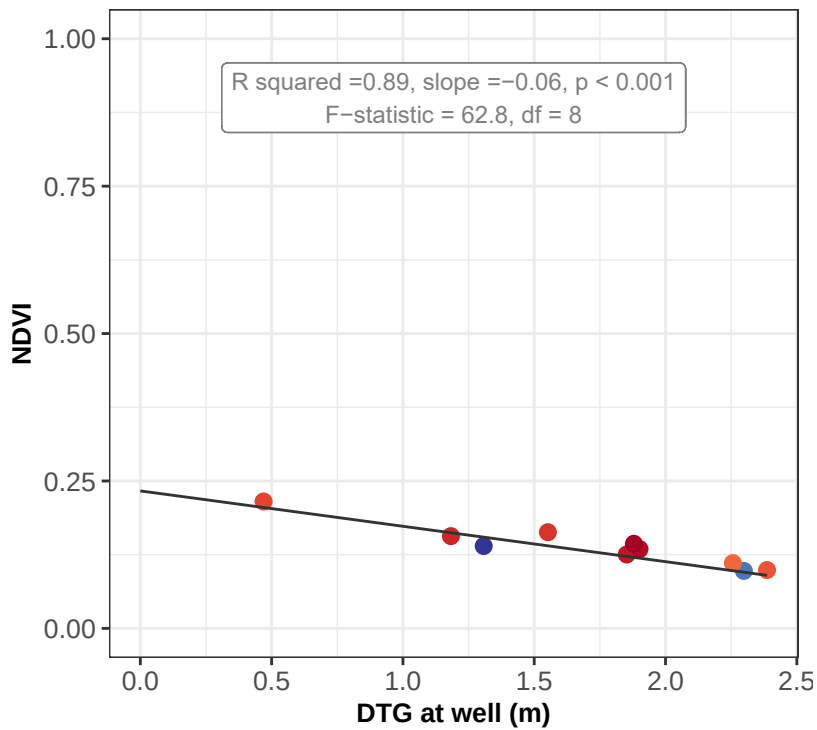
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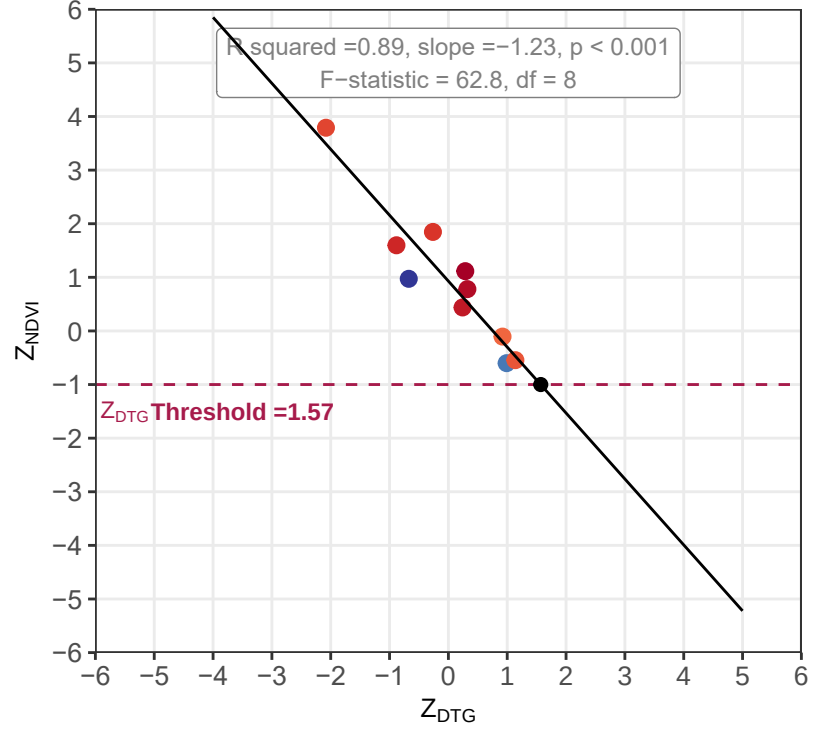
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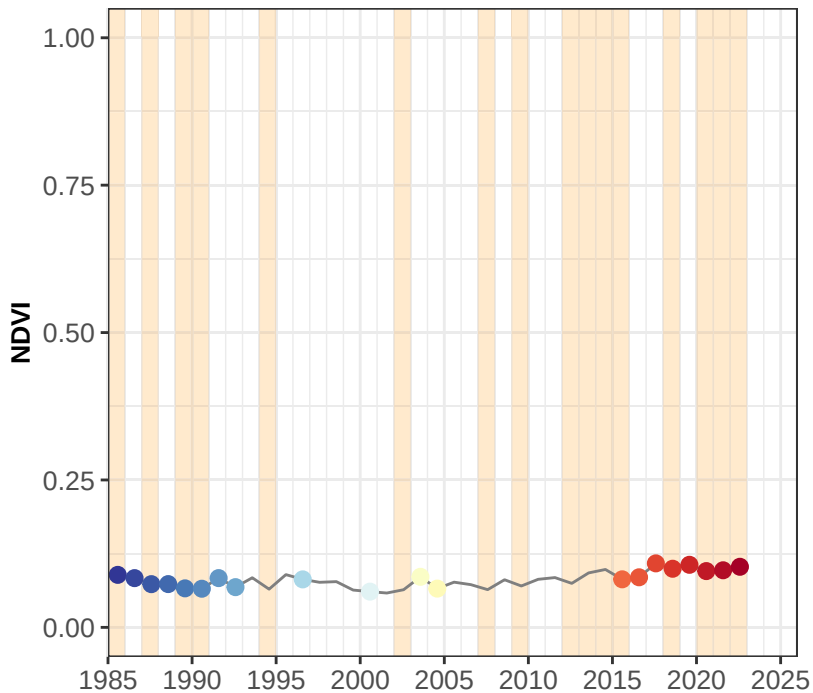


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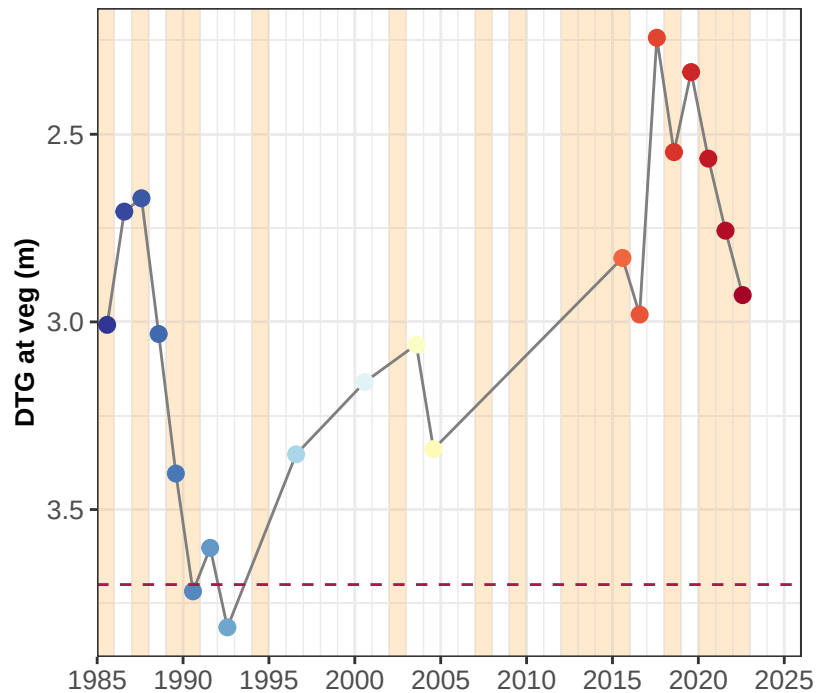


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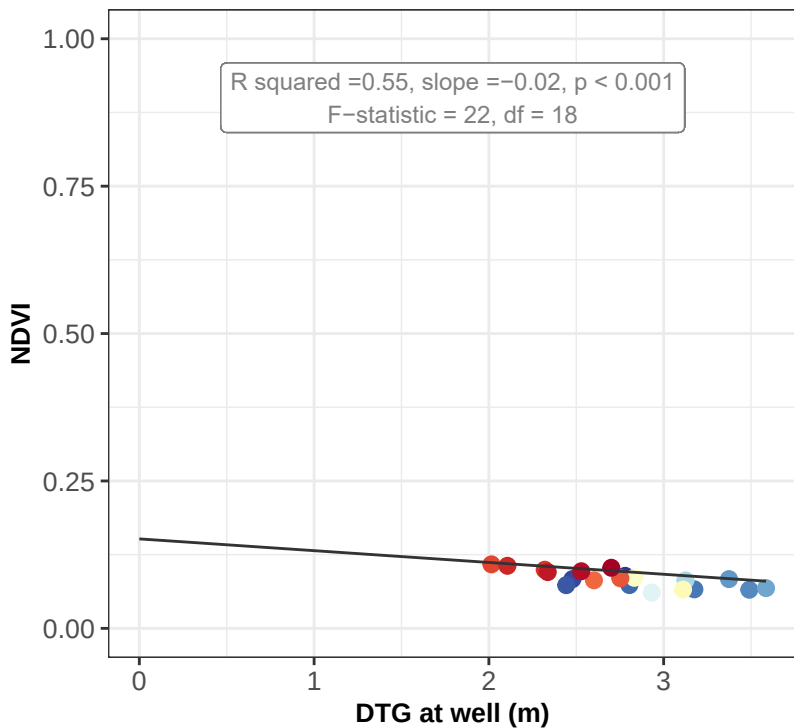
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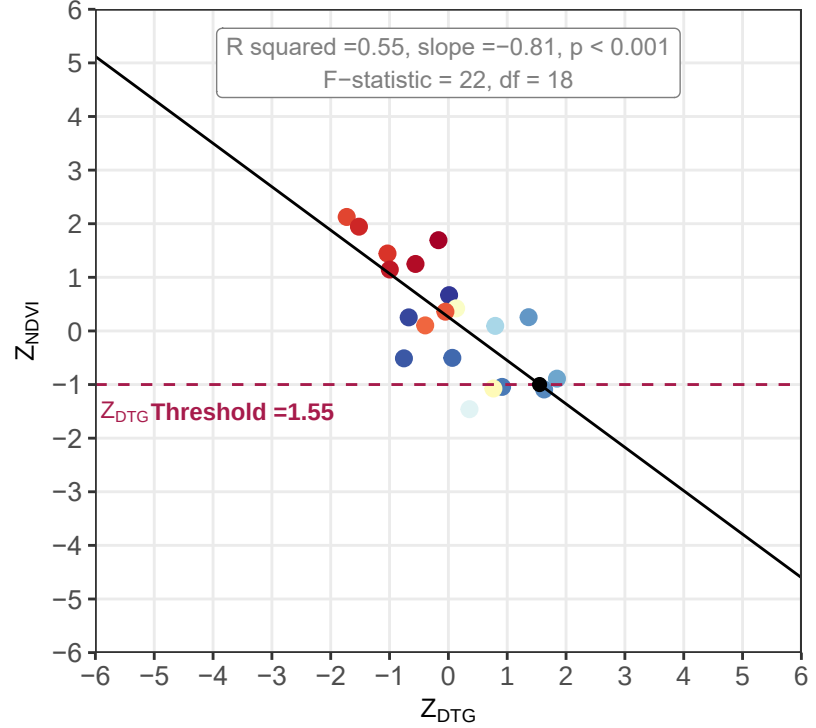
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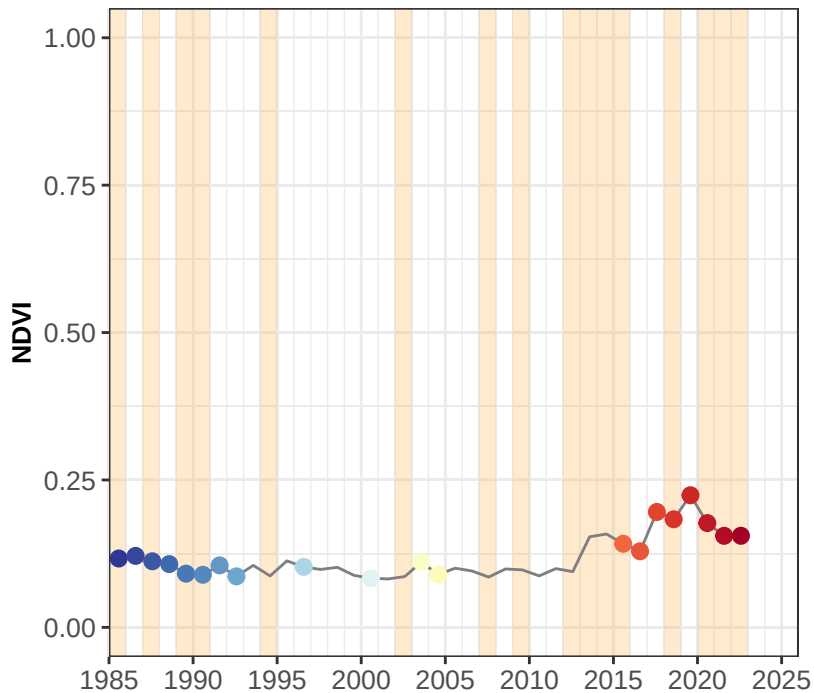


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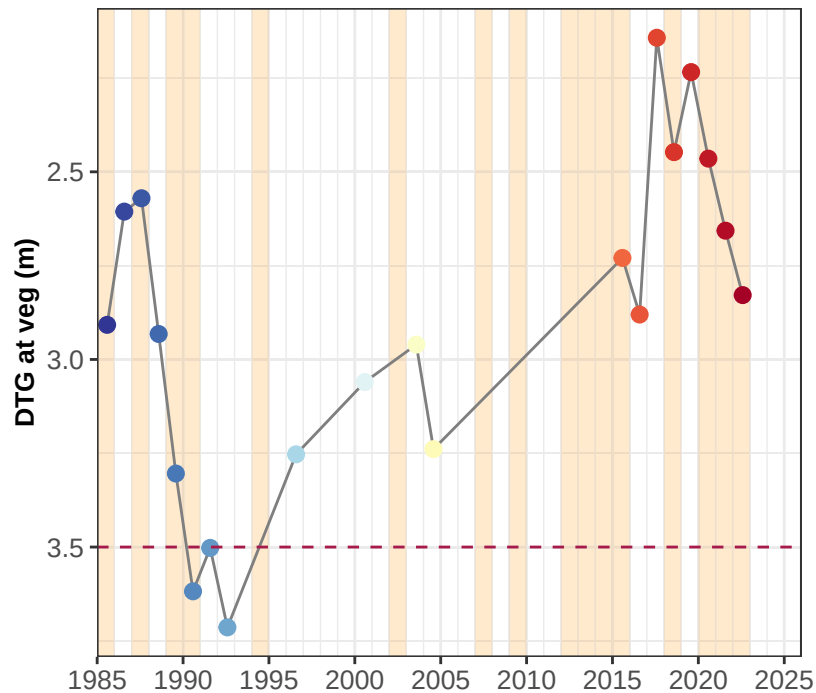


(gdeID: 129033)

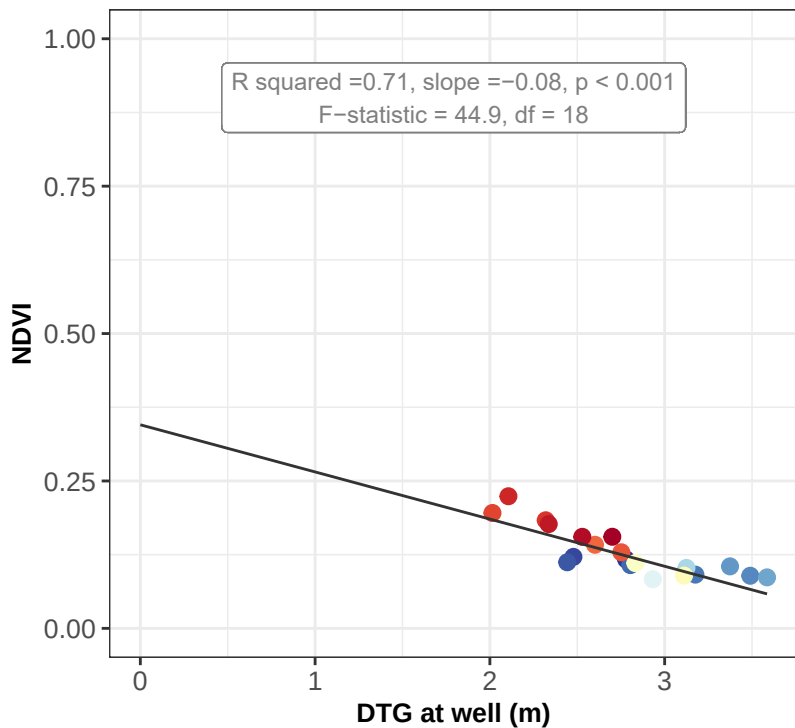
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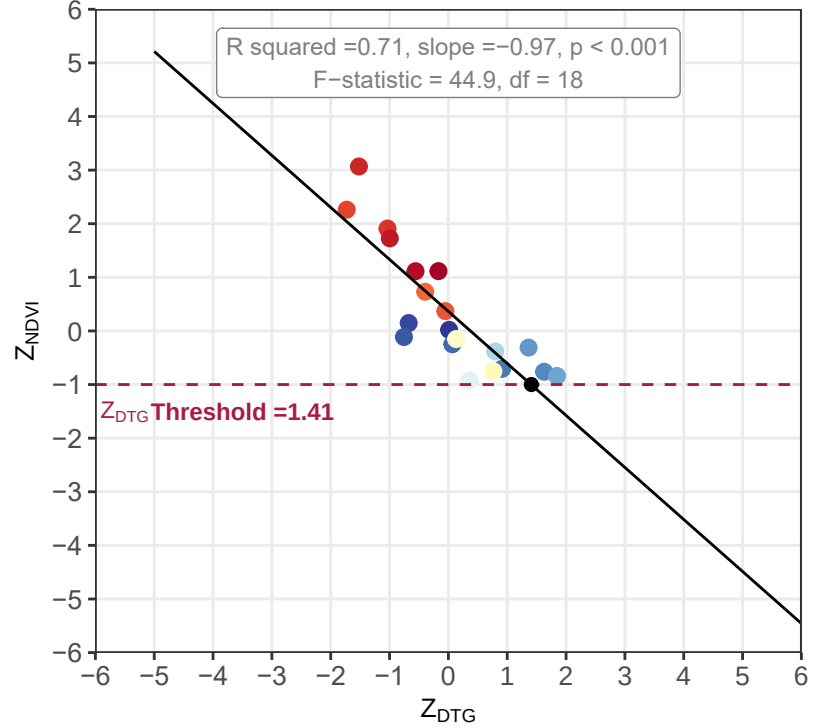
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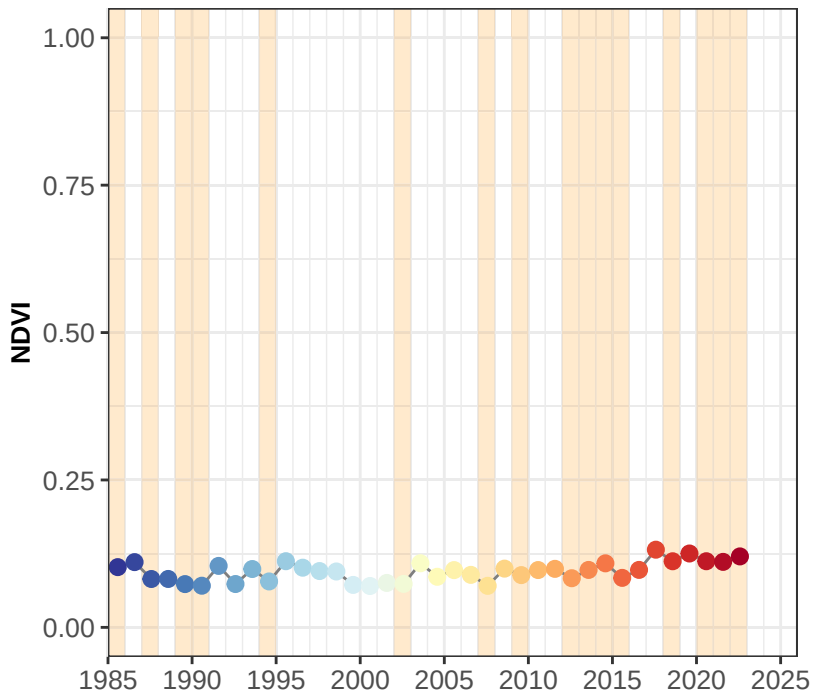


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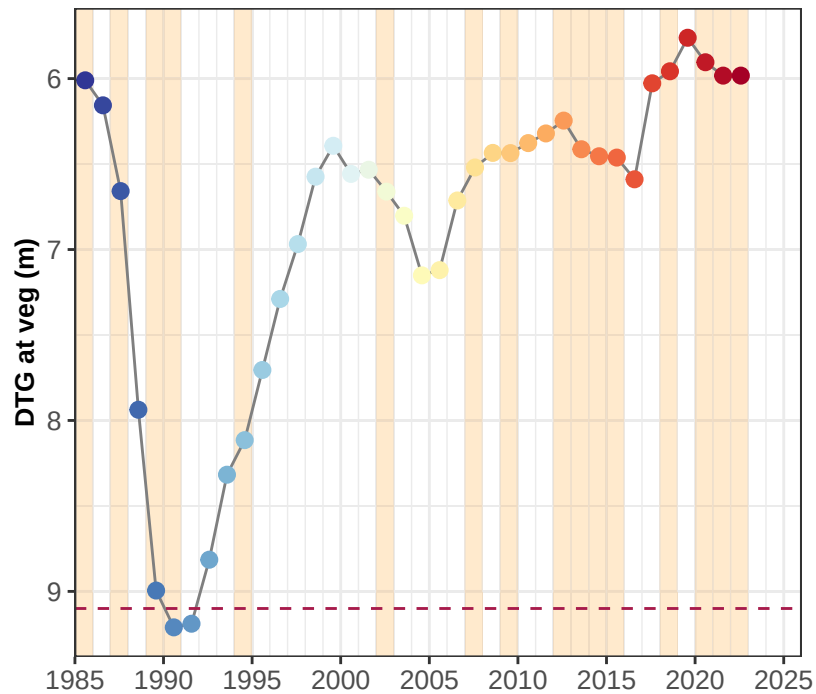


(gdeID: 129118)

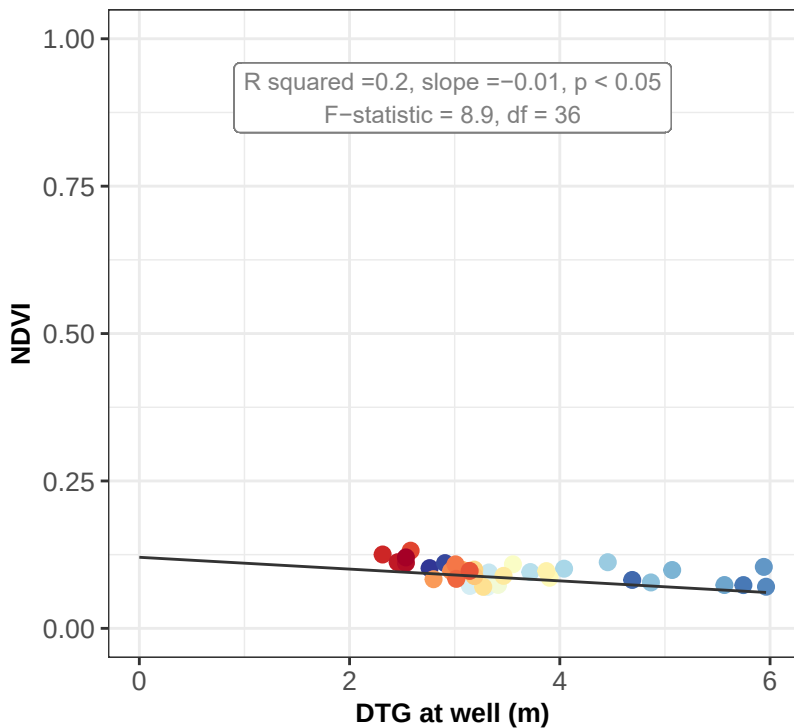
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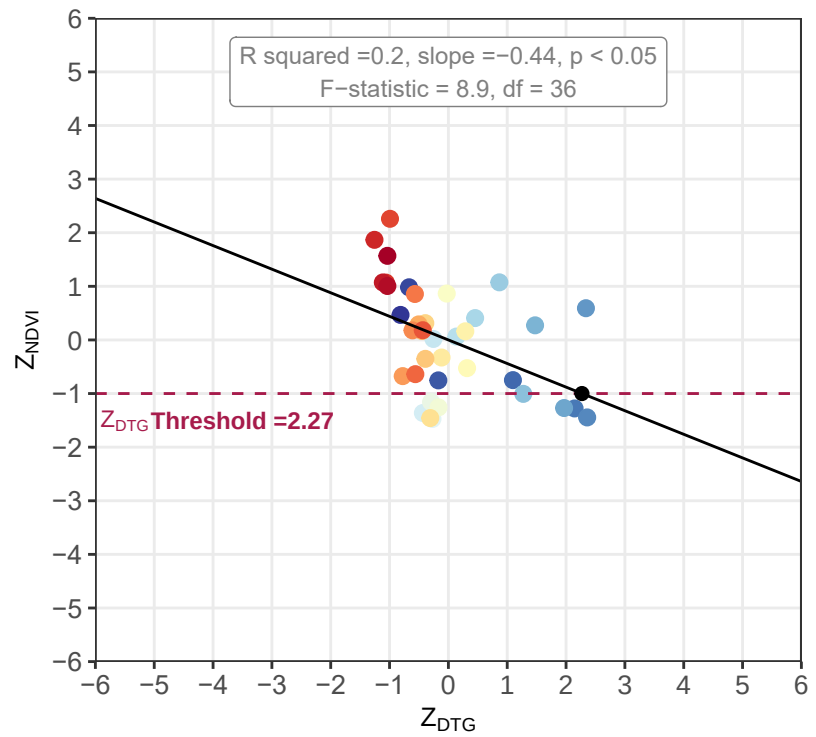
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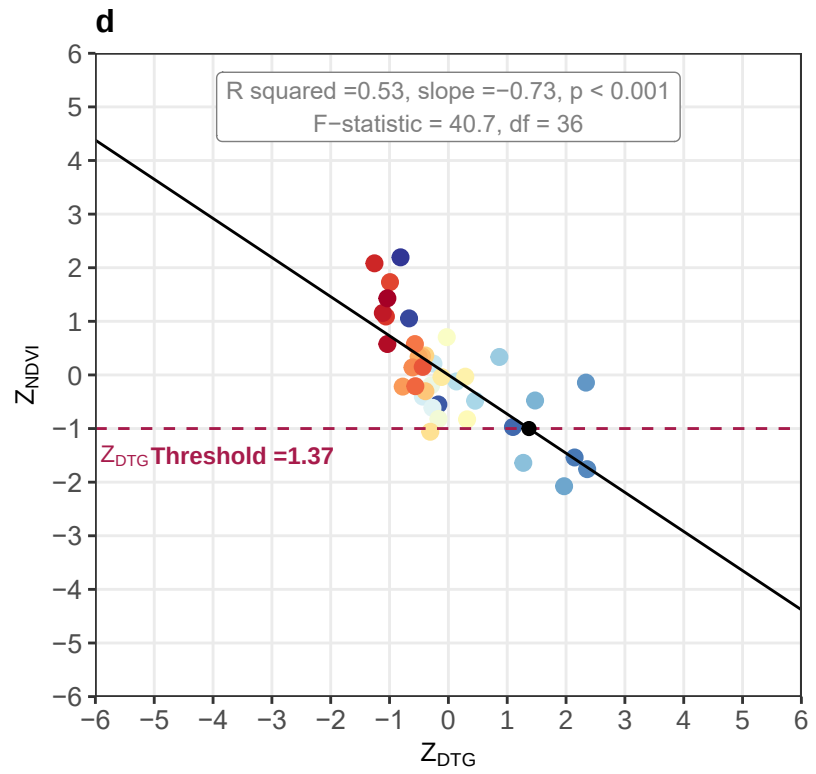
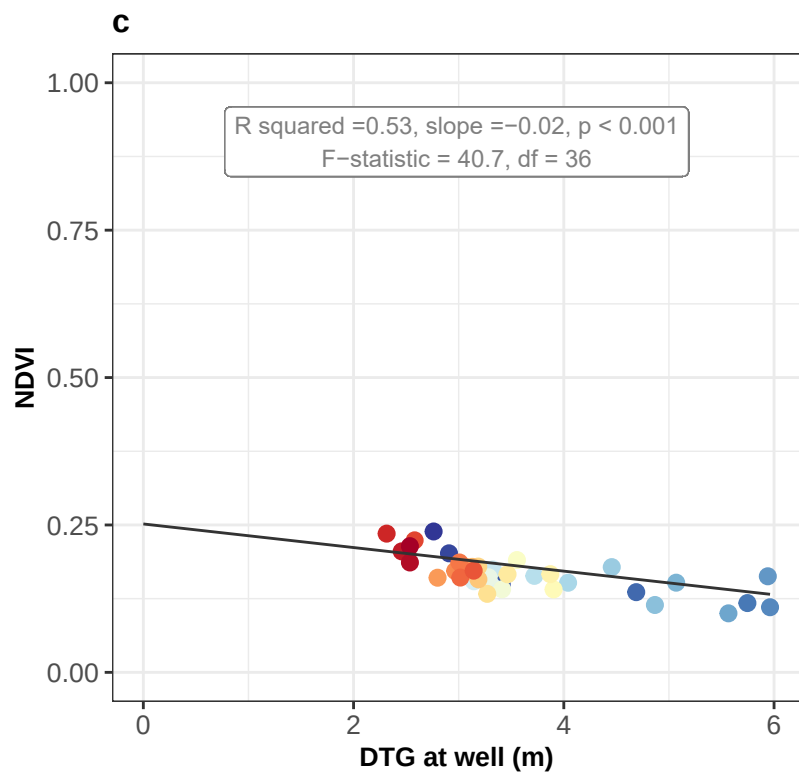
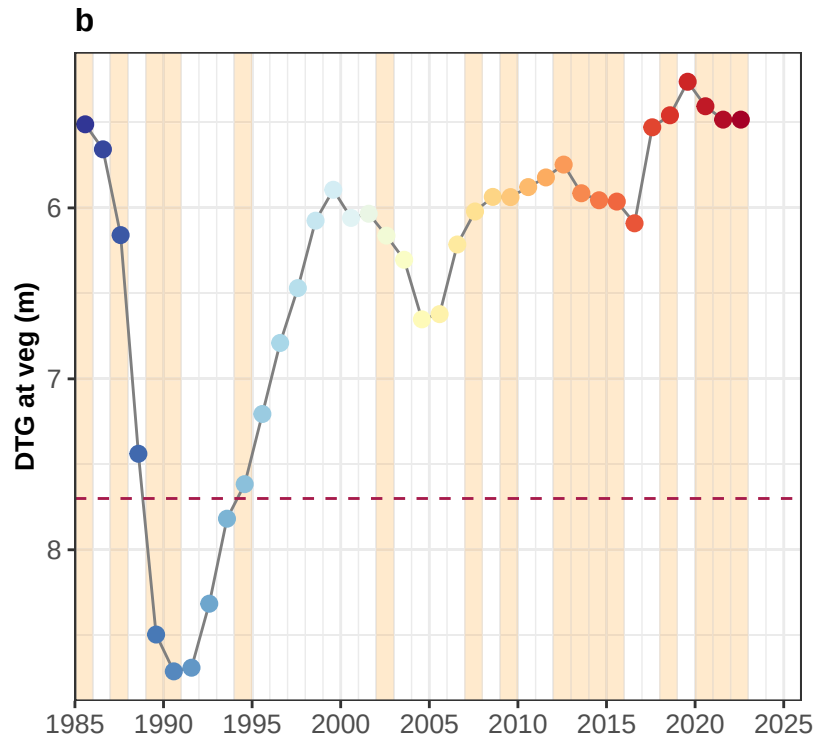
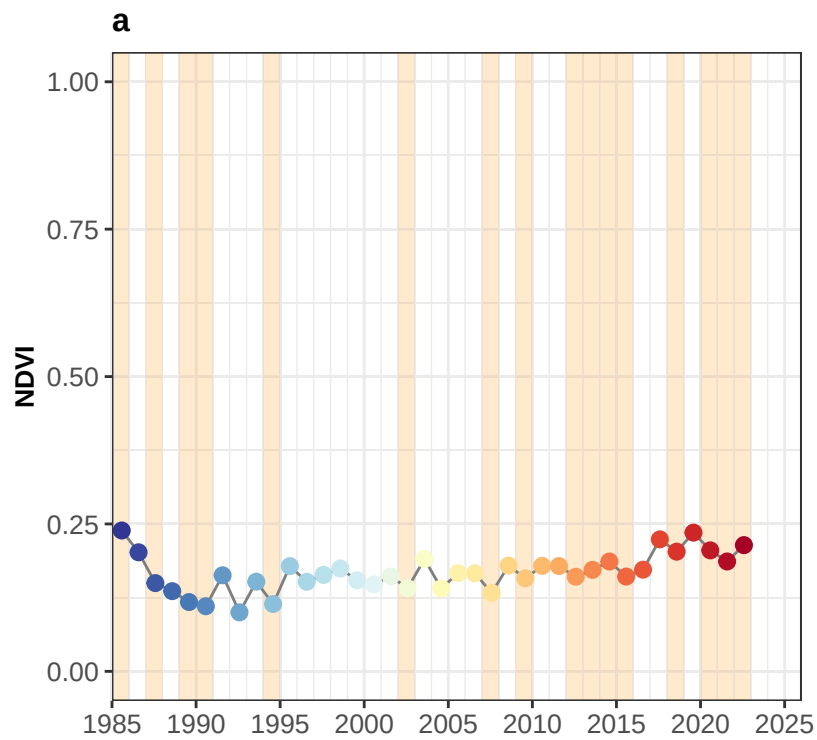
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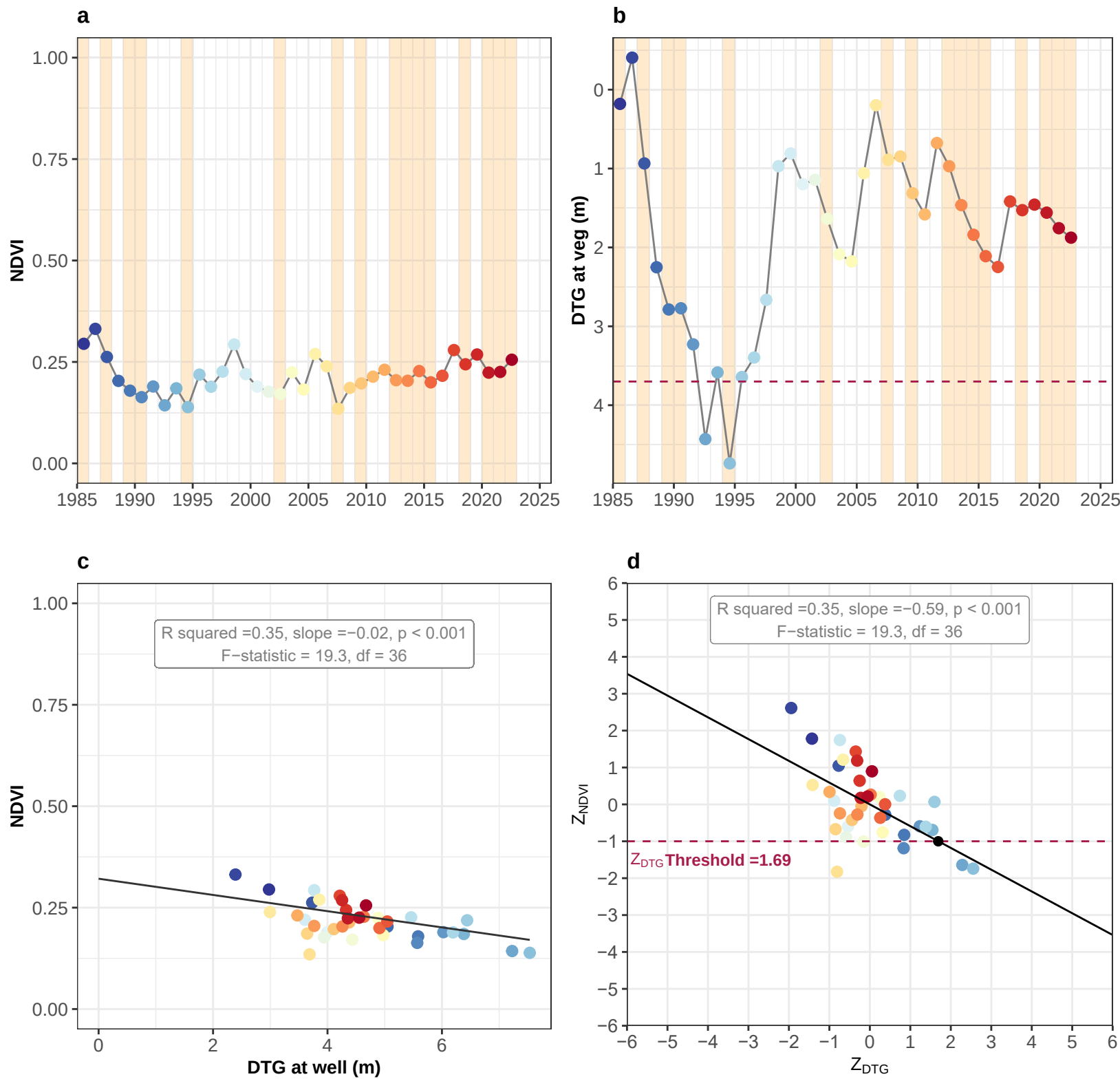
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(gdeID: 129133)

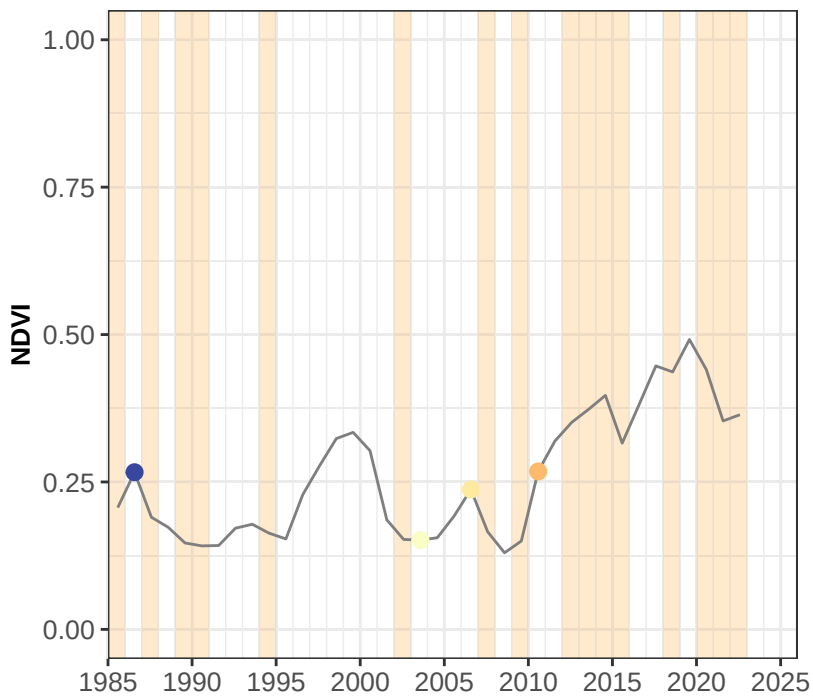


(gdeID: 129206)

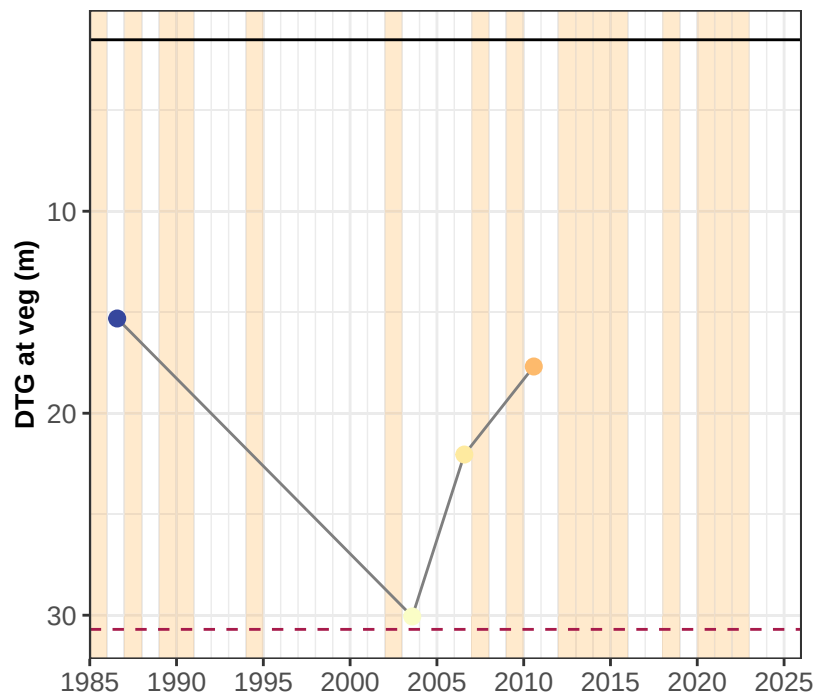


Salix (gdeID: 12923)

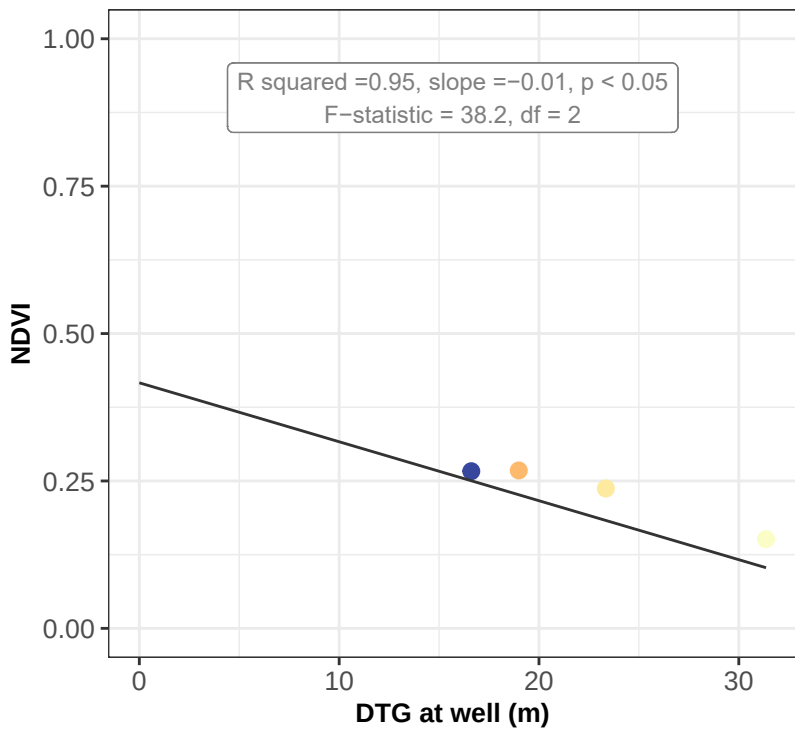
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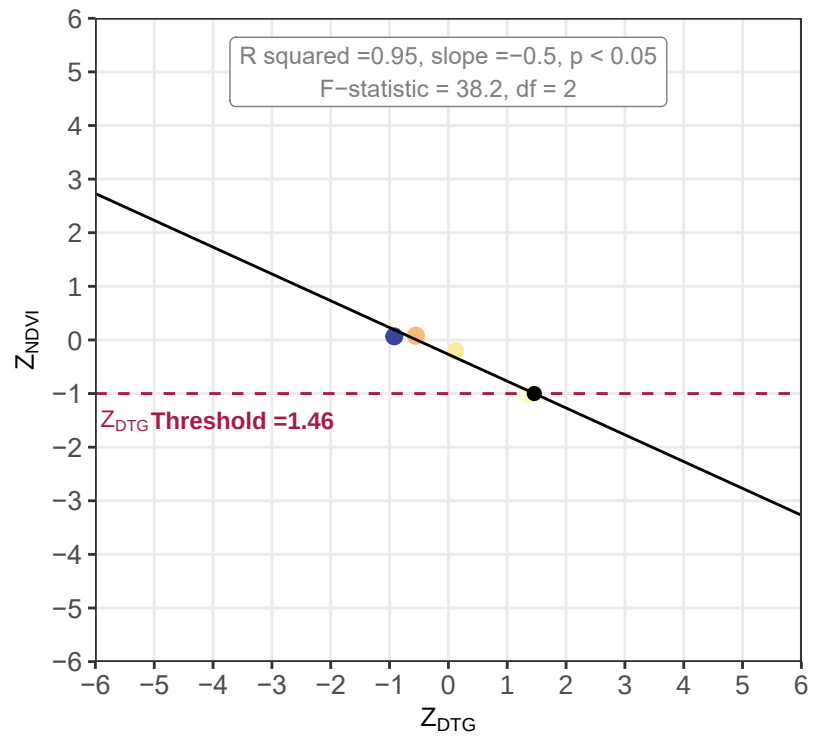
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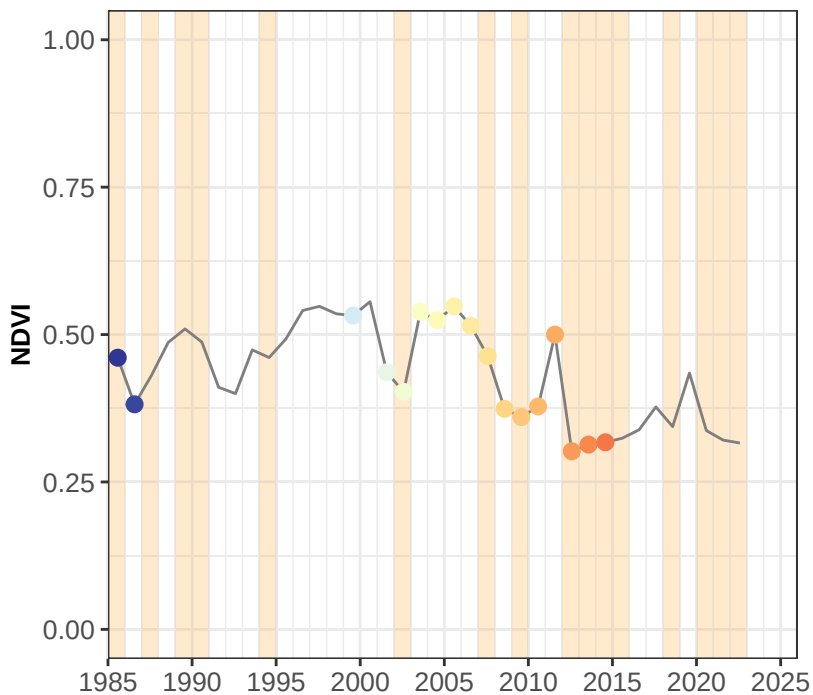


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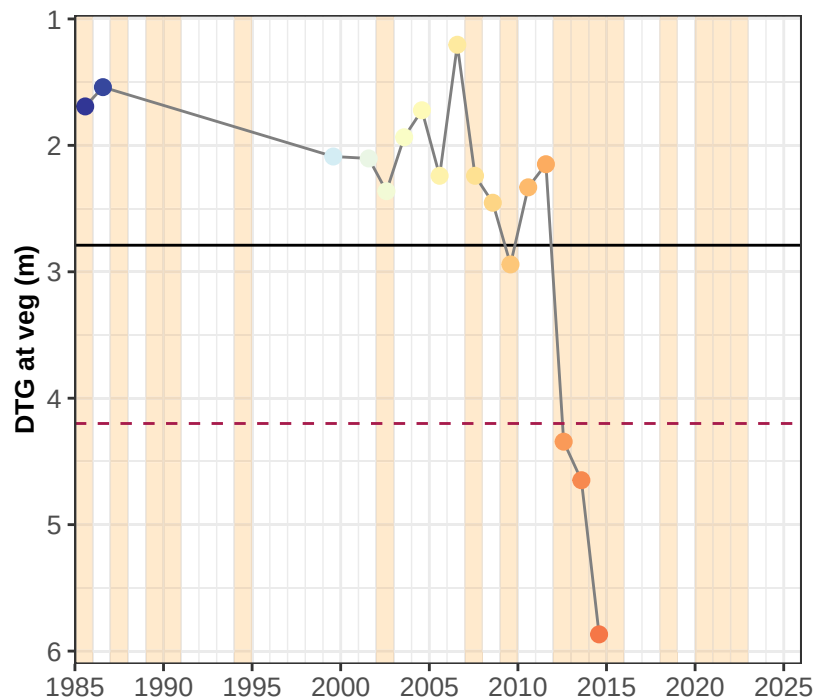


Populus (gdeID: 129263)

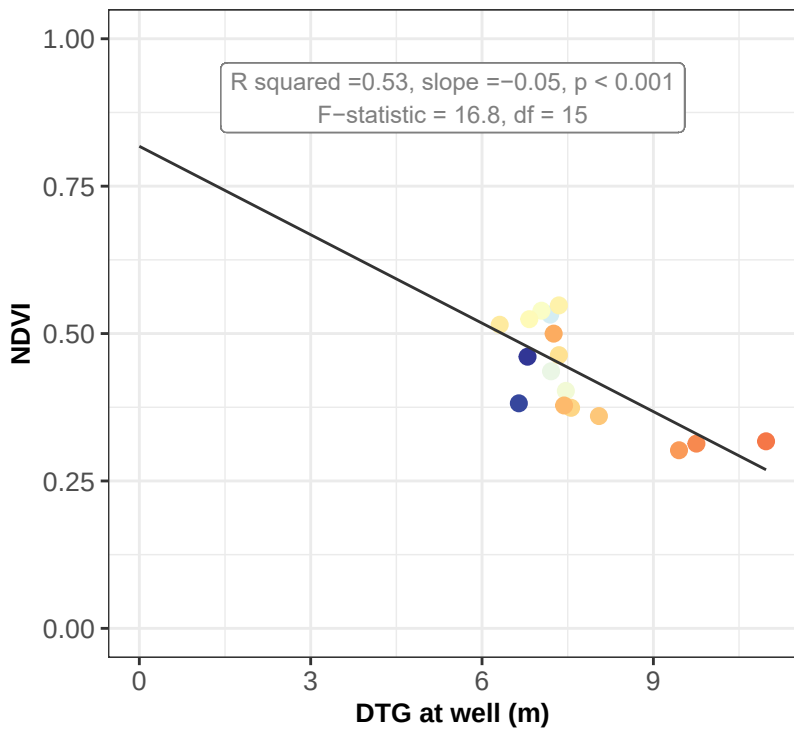
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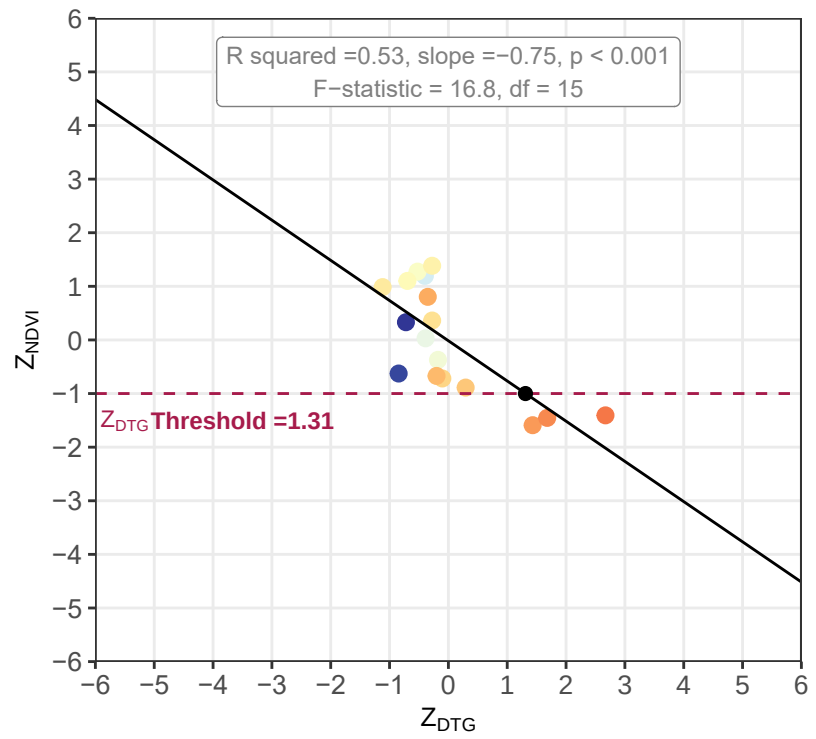
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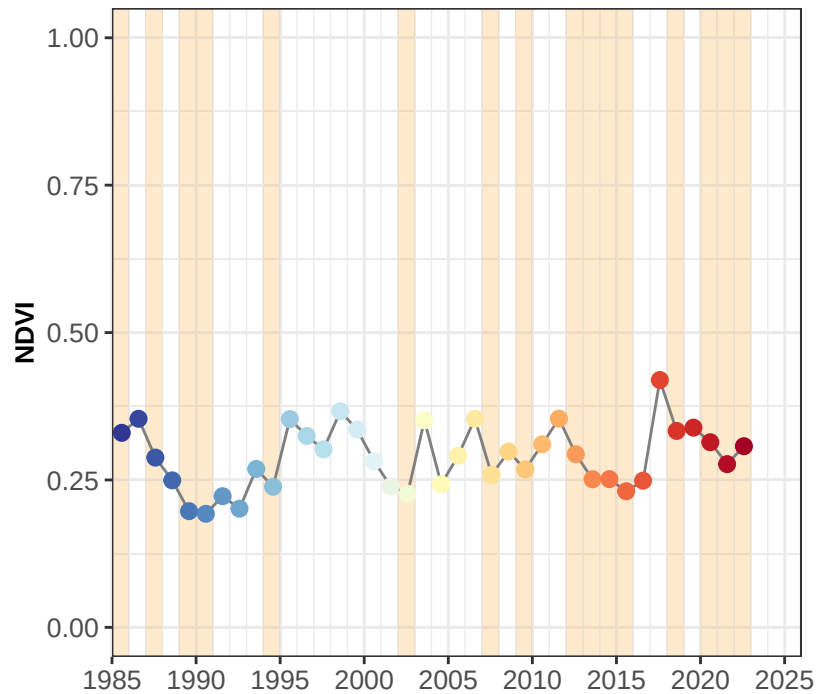


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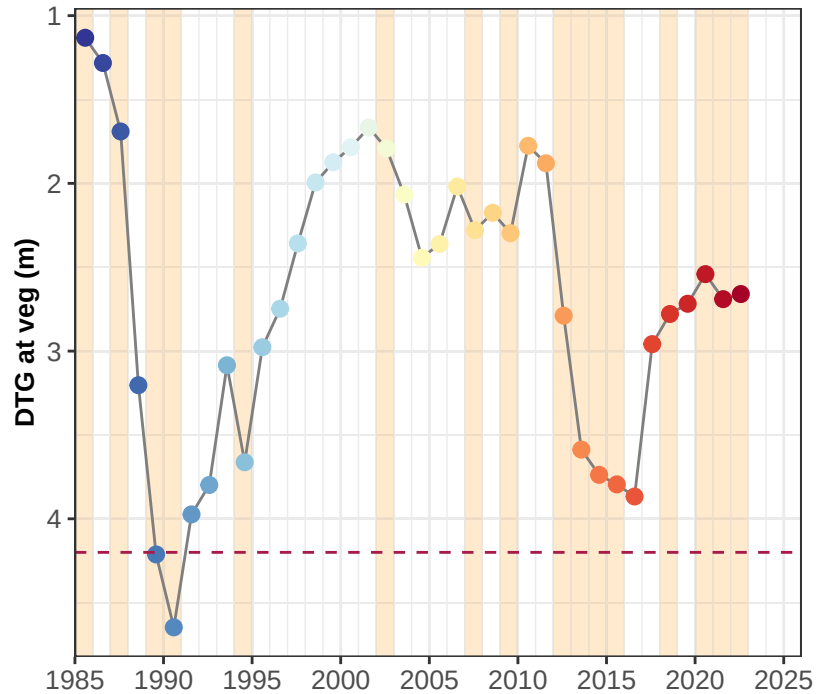


(gdeID: 129430)

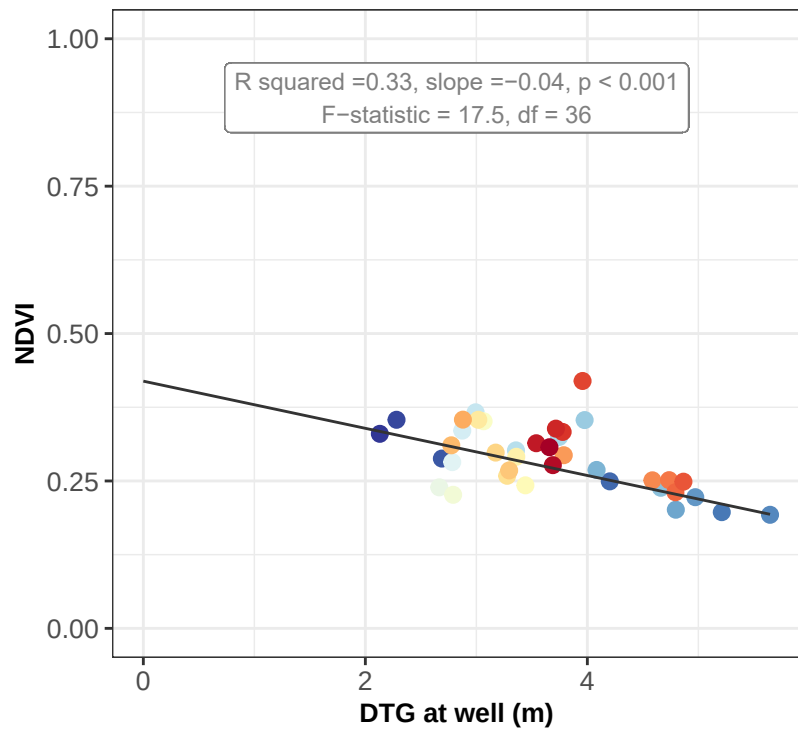
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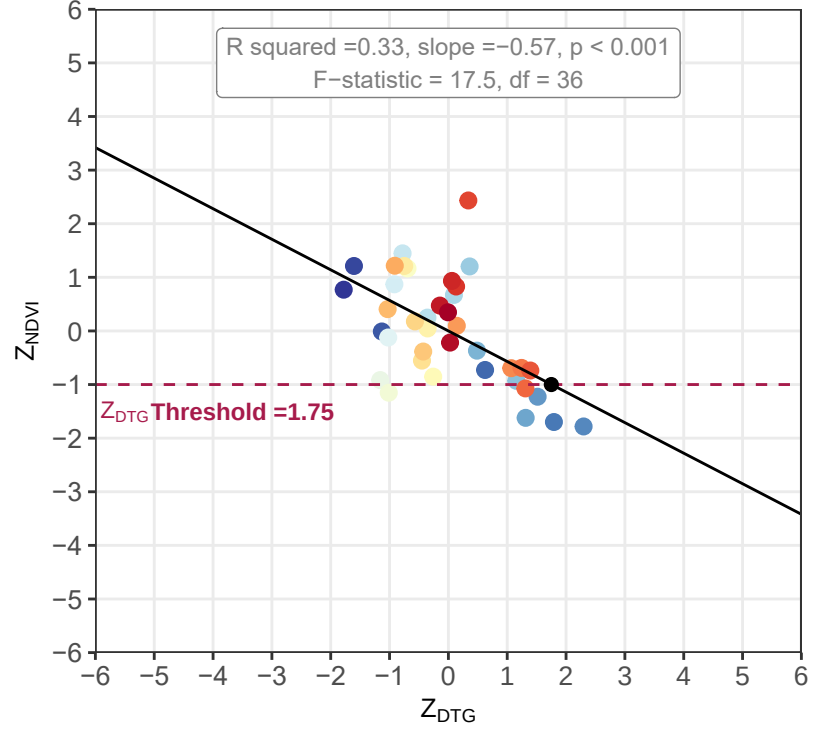
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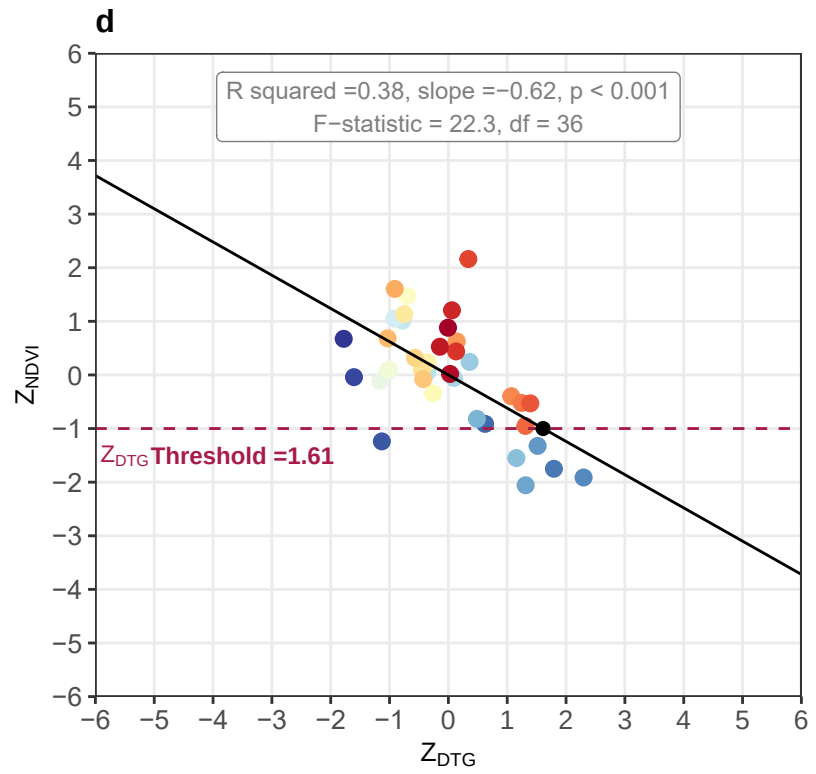
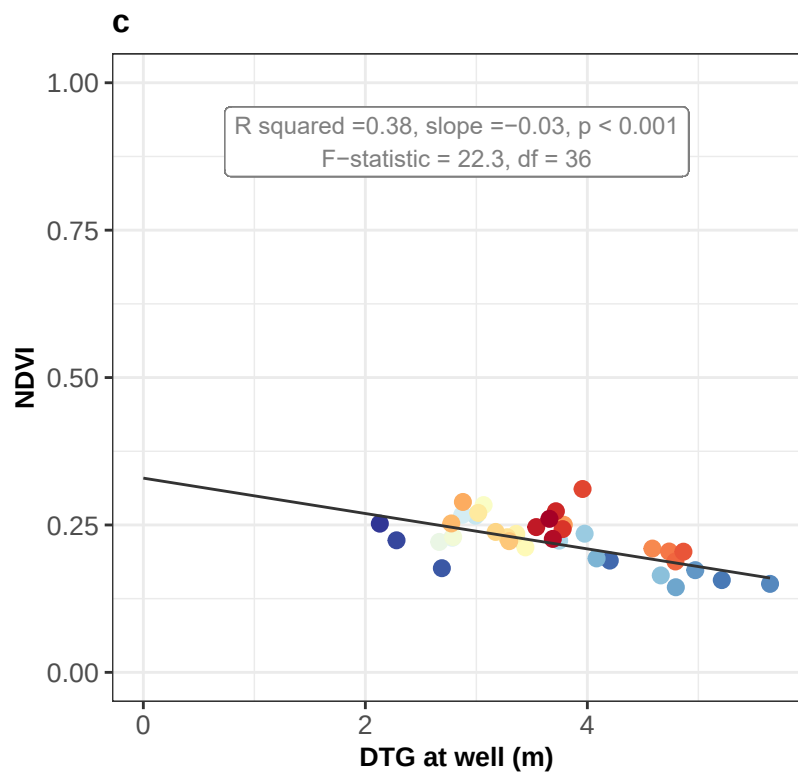
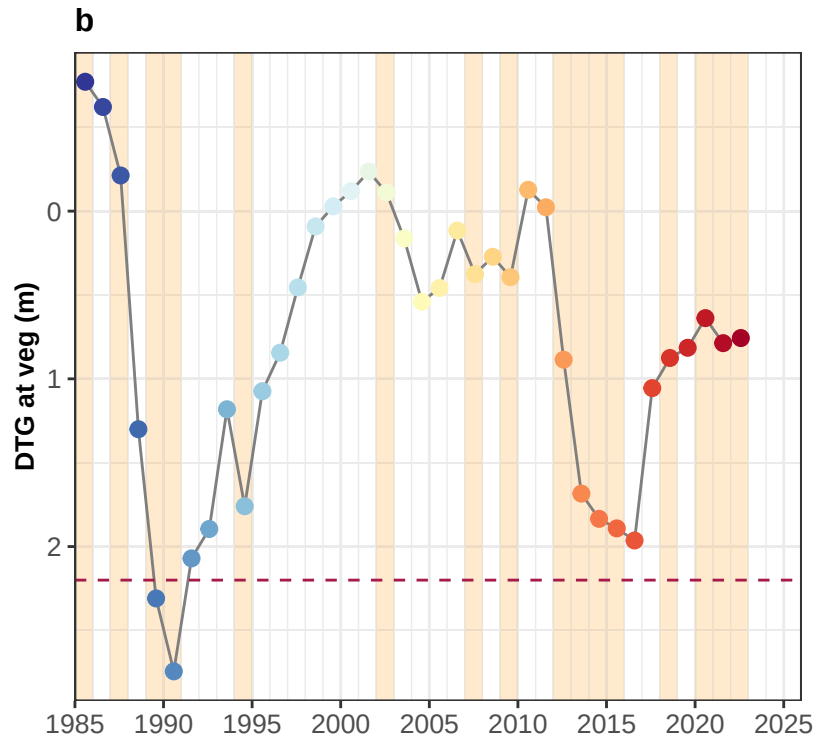
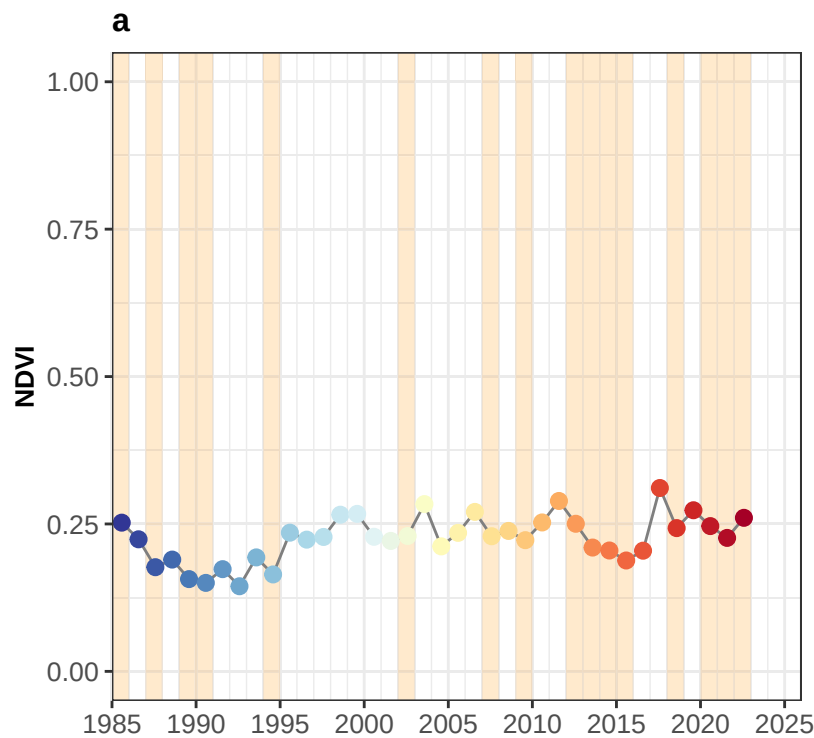
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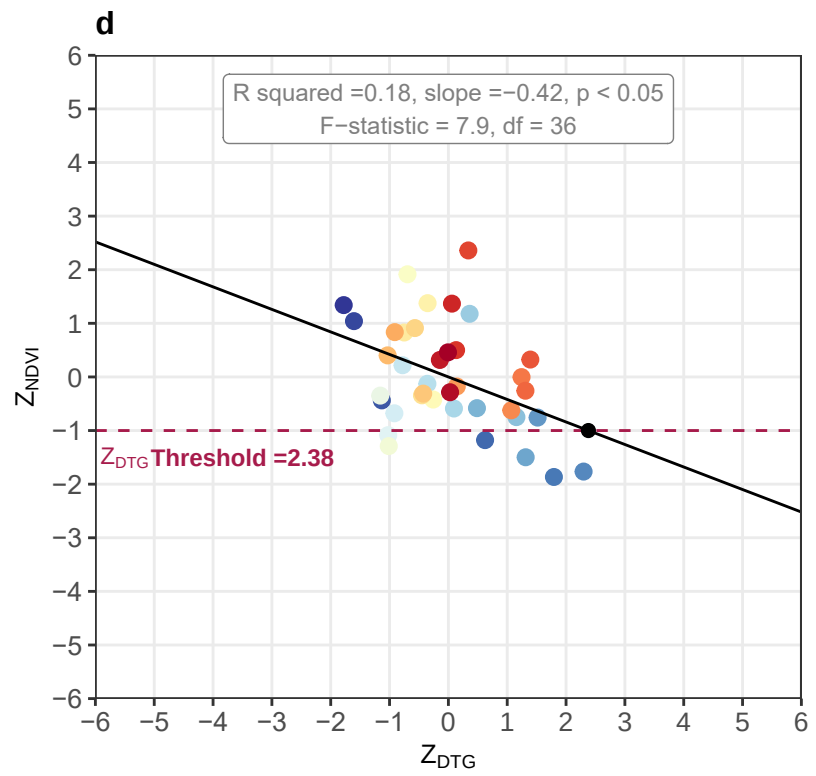
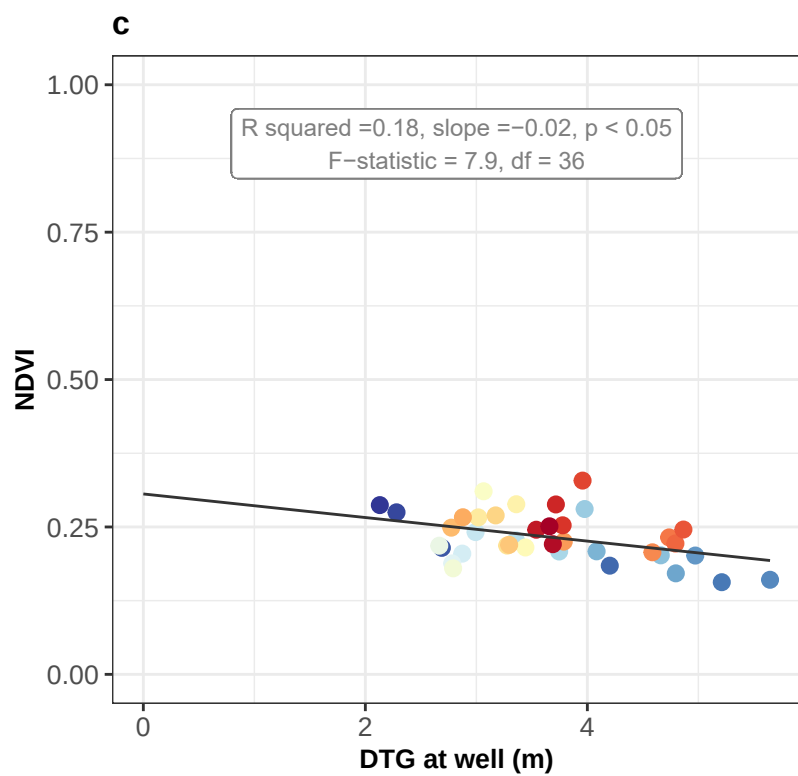
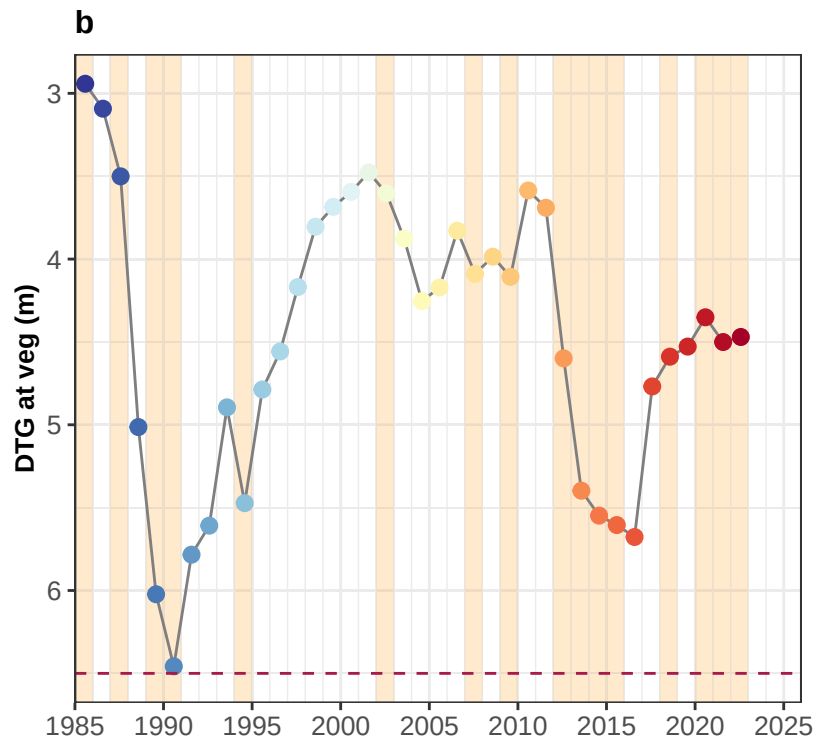
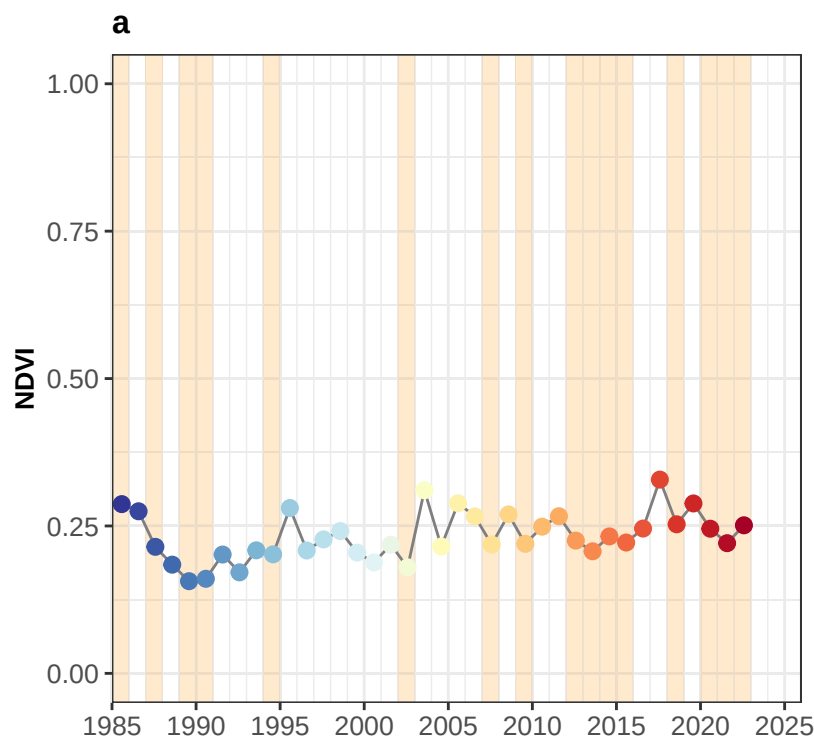
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(gdeID: 129449)

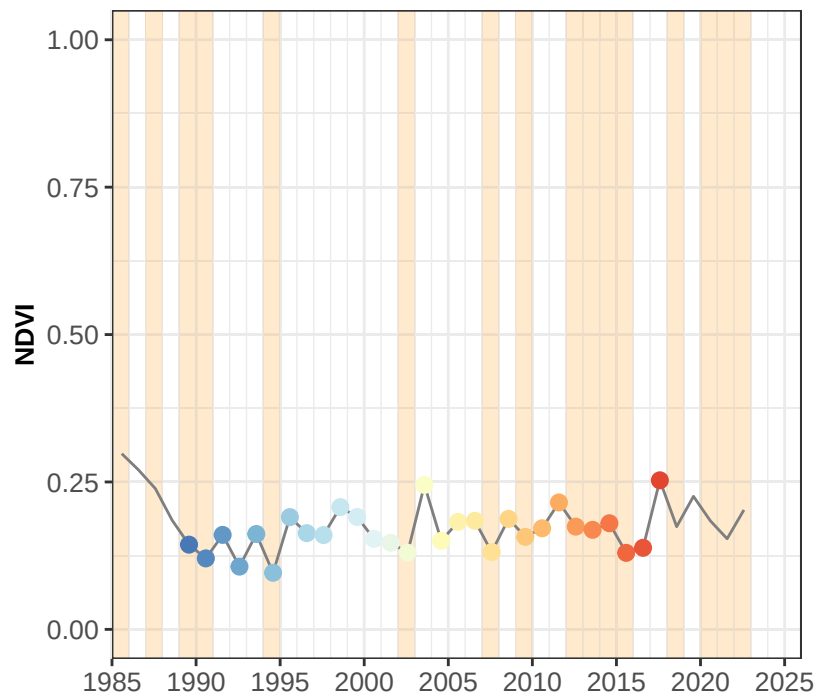


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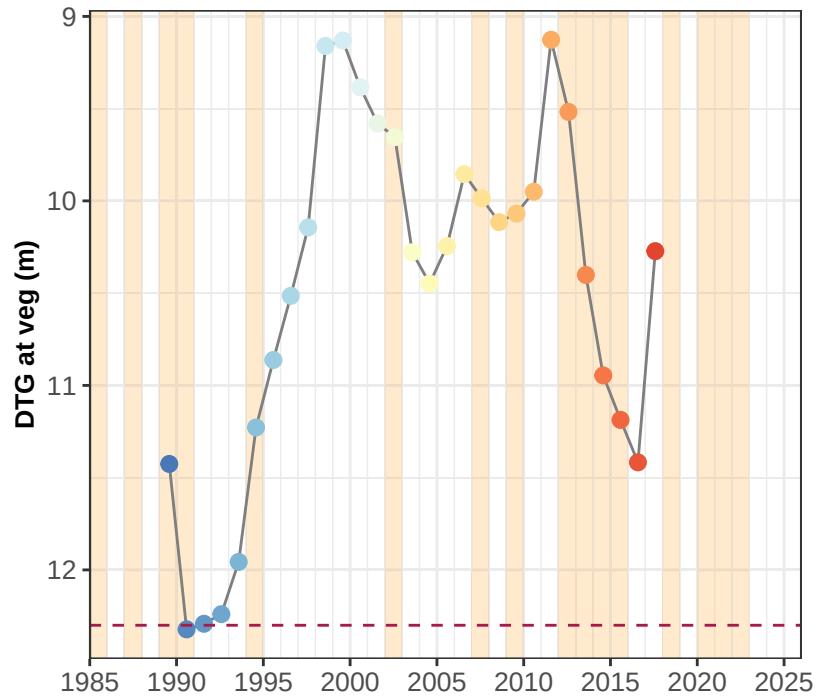


(gdeID: 129493)

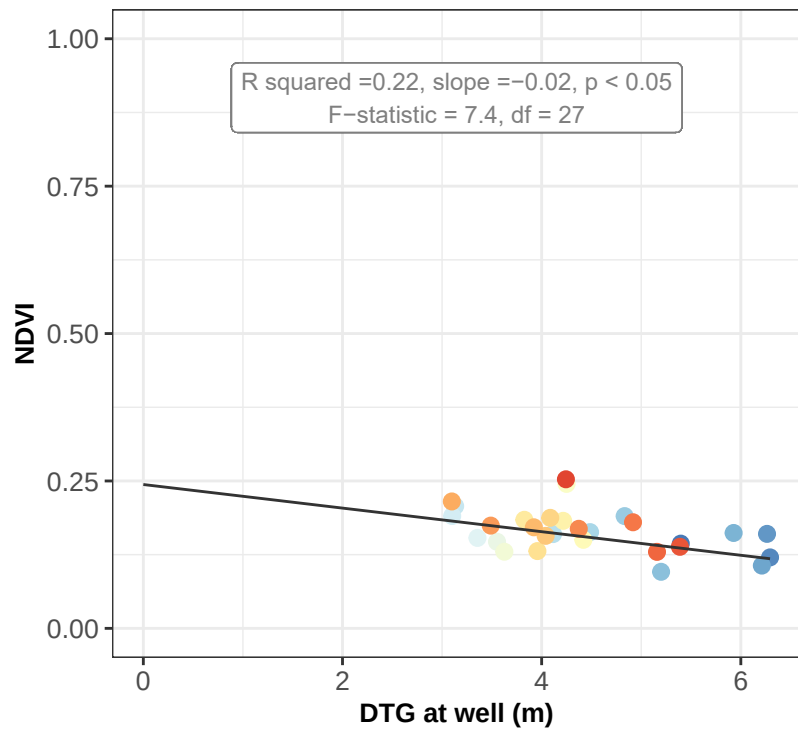
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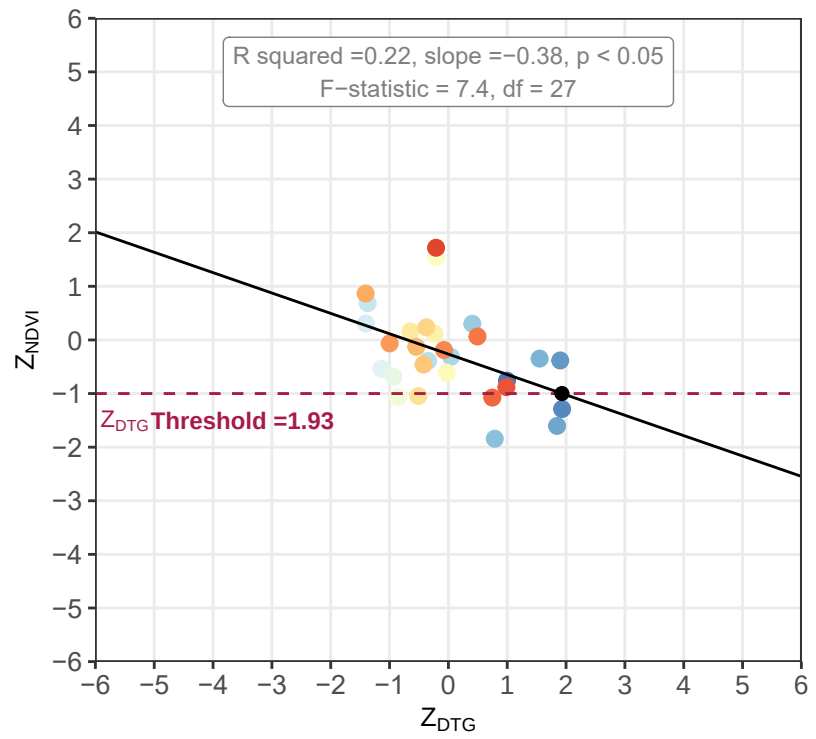
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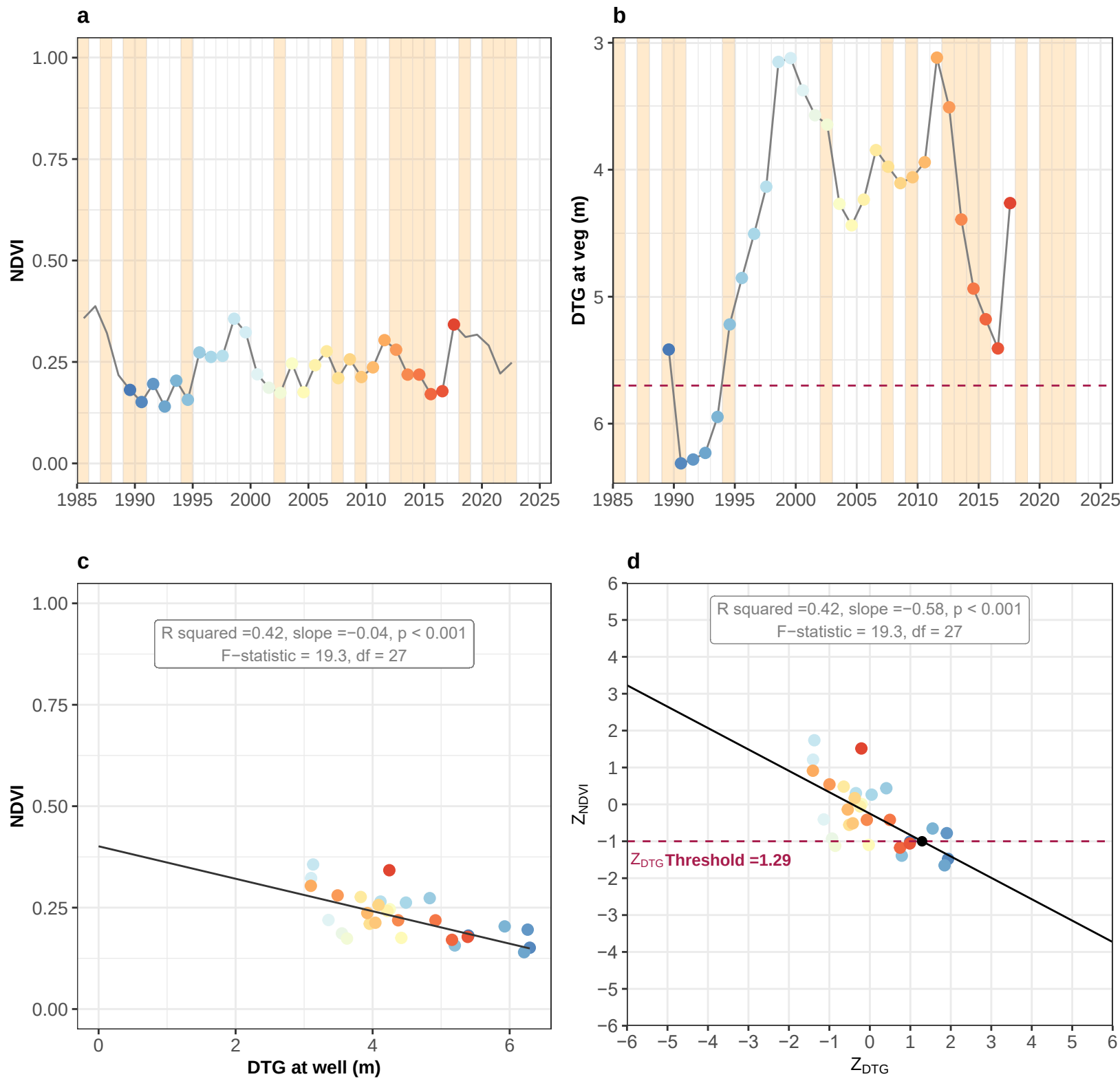
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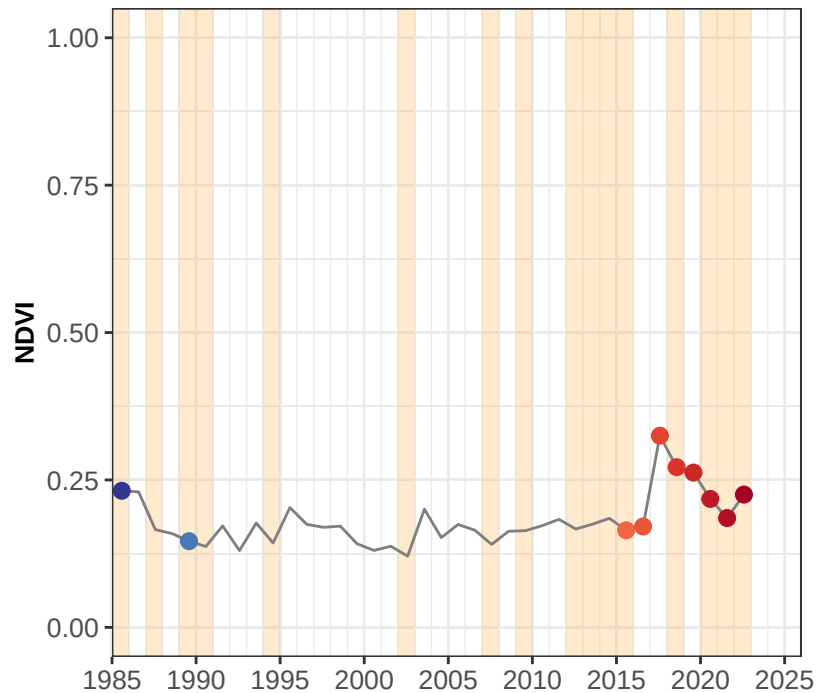


(gdeID: 129517)

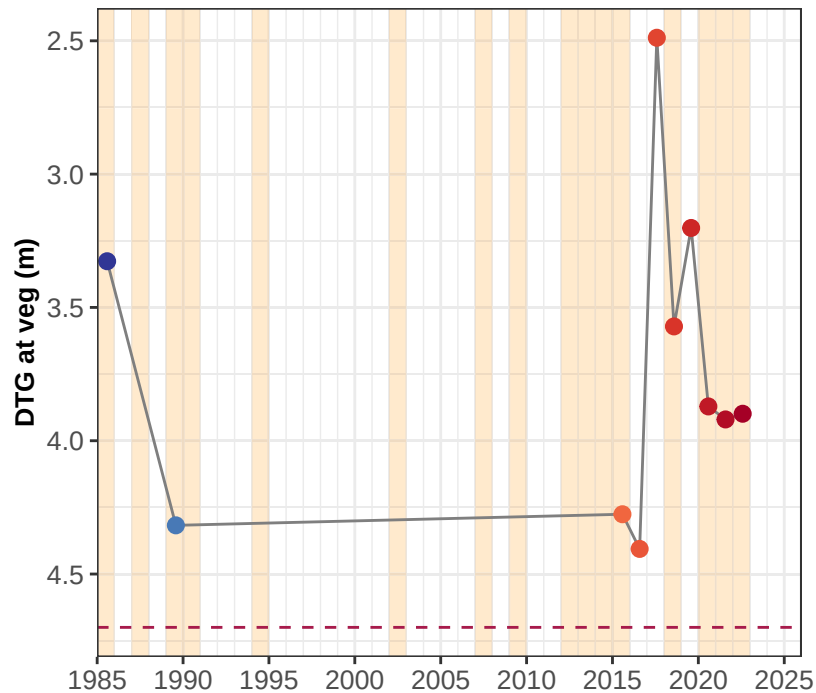


(gdeID: 129534)

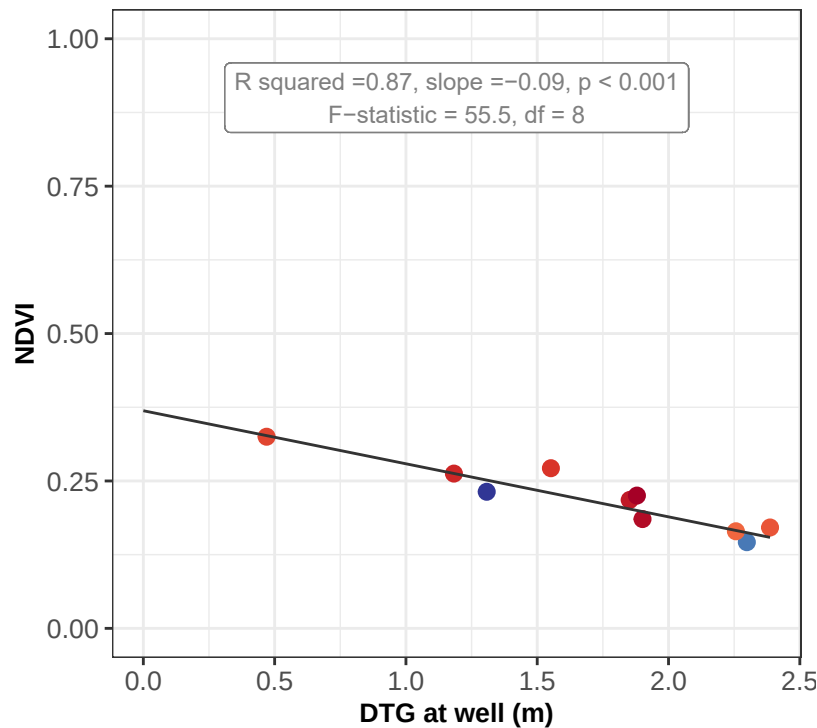
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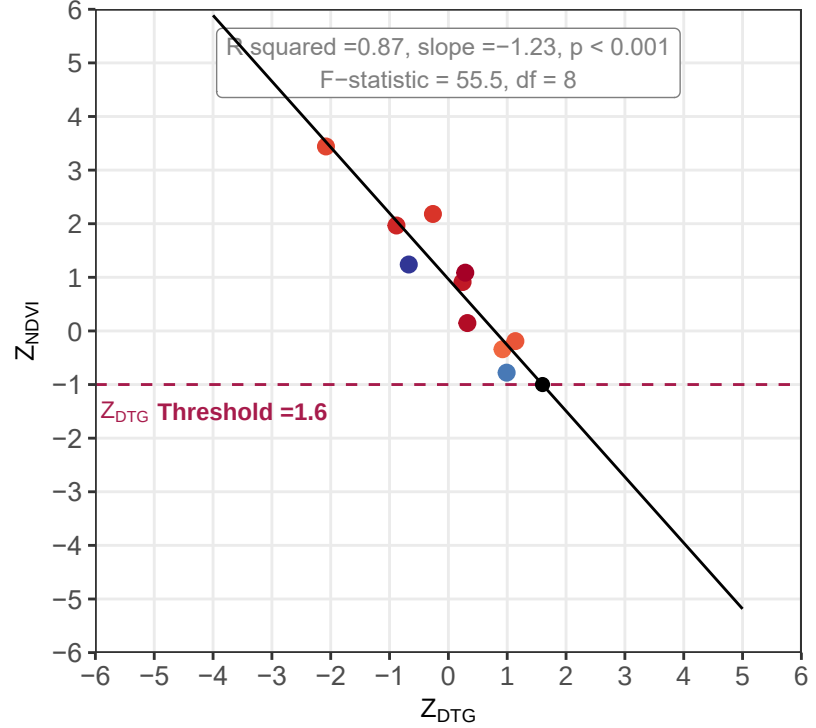
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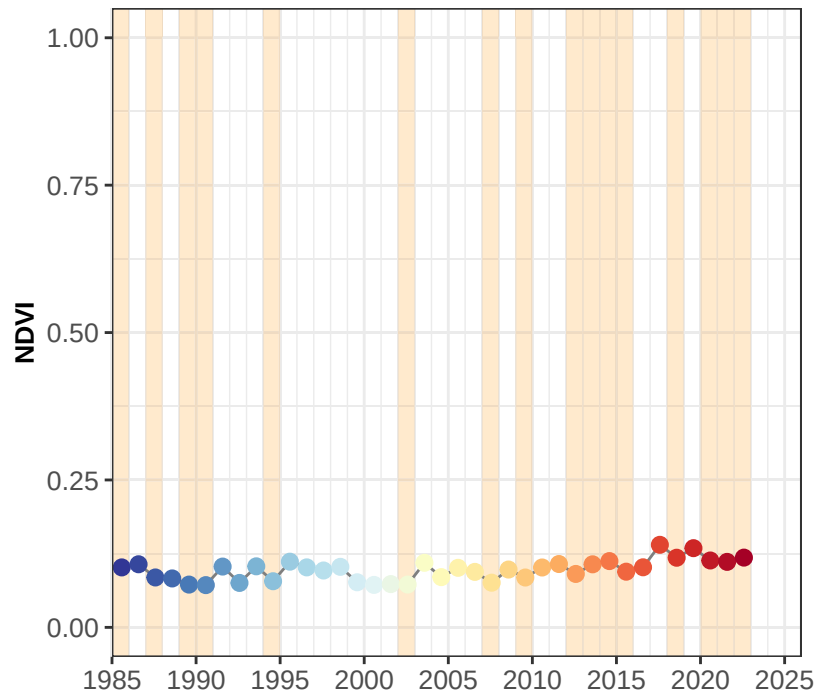


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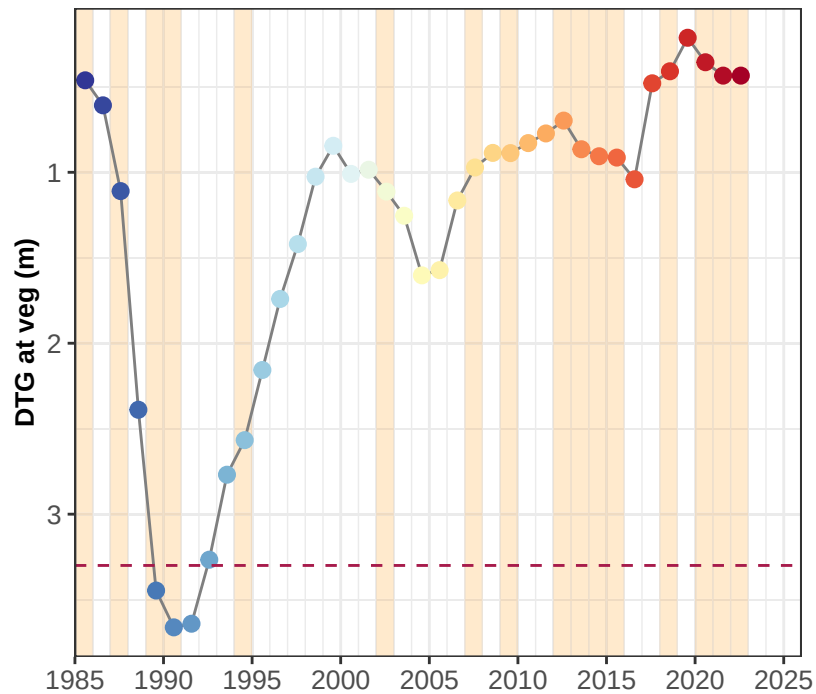


(gdeID: 129866)

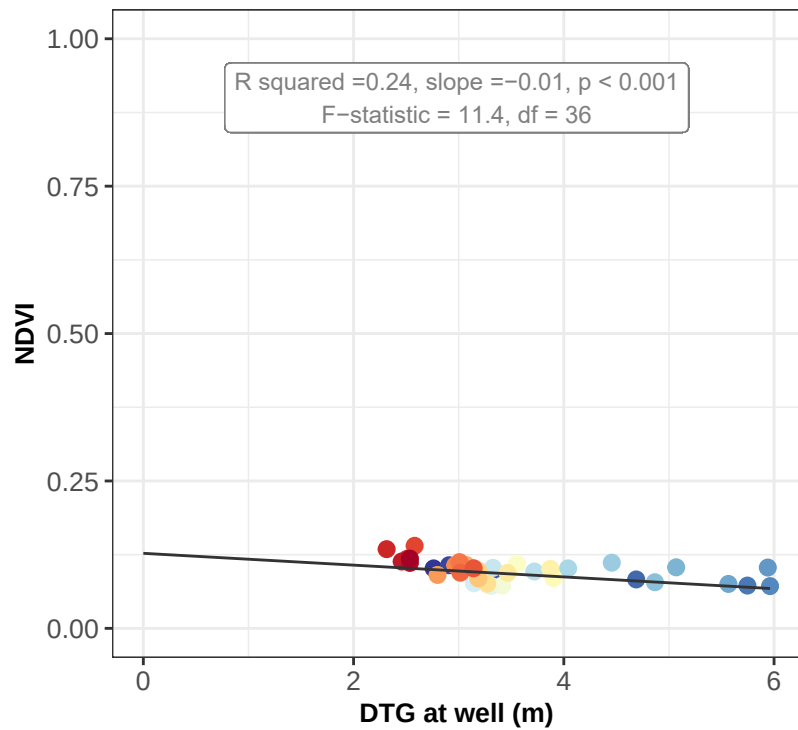
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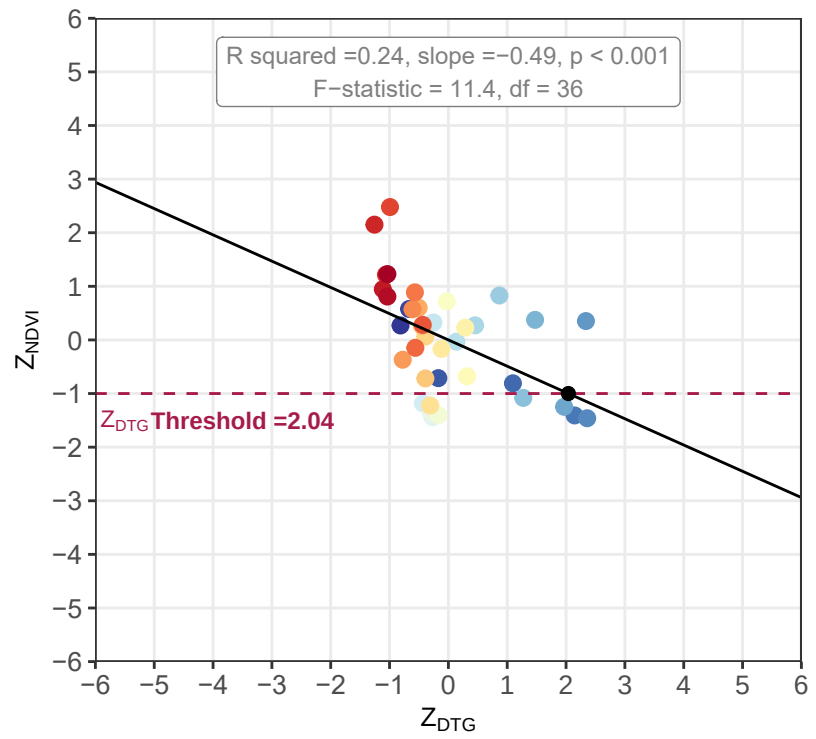
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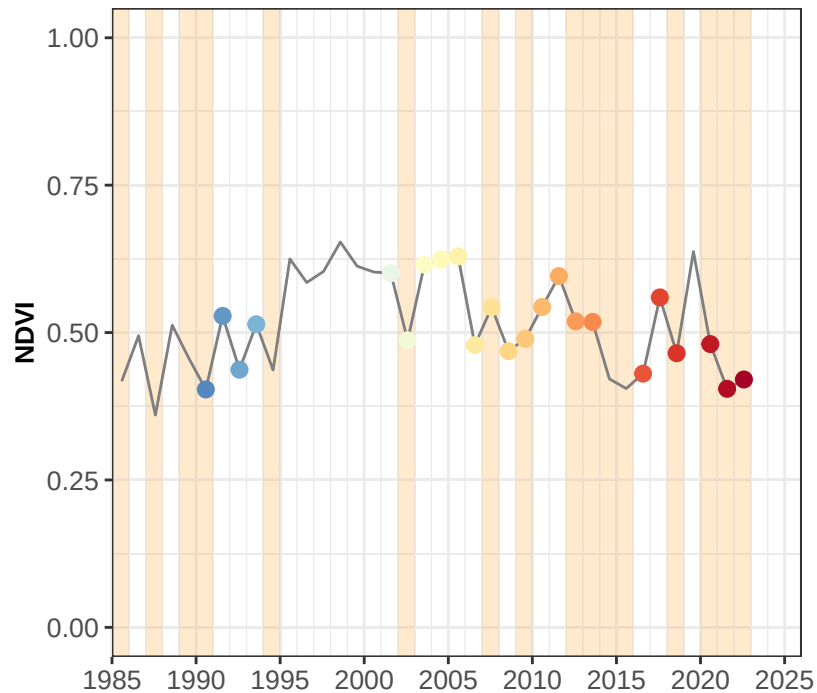


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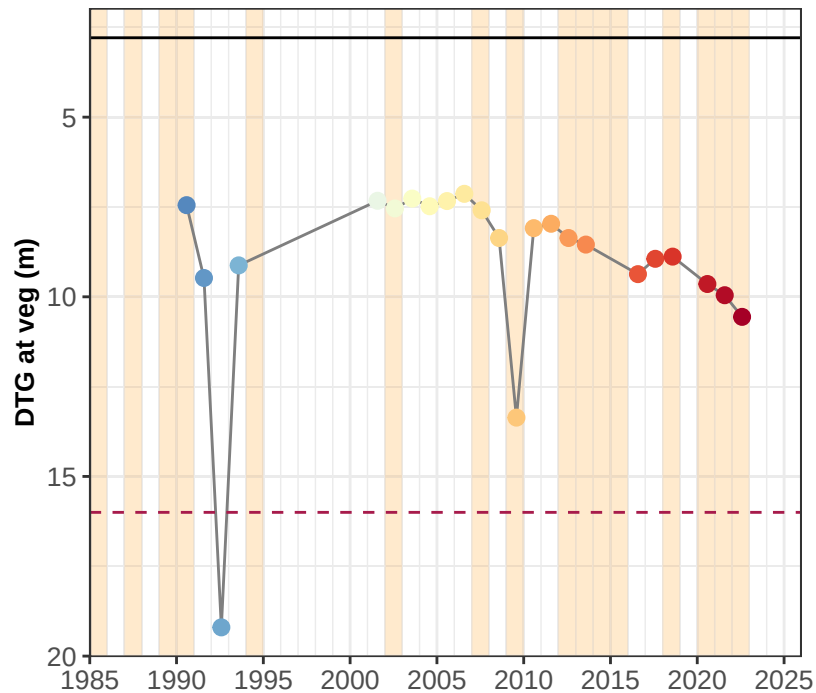


Populus (gdeID: 129961)

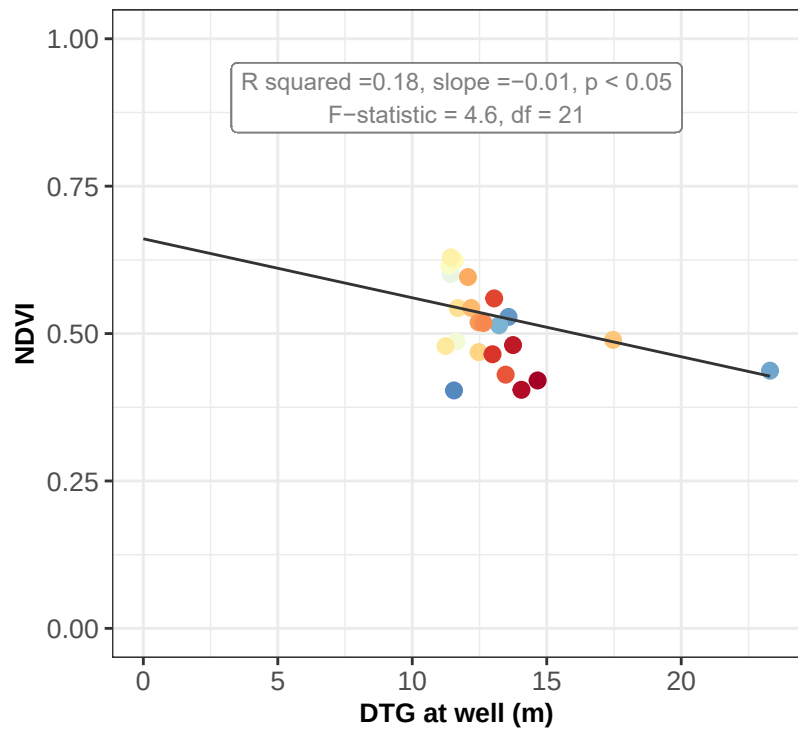
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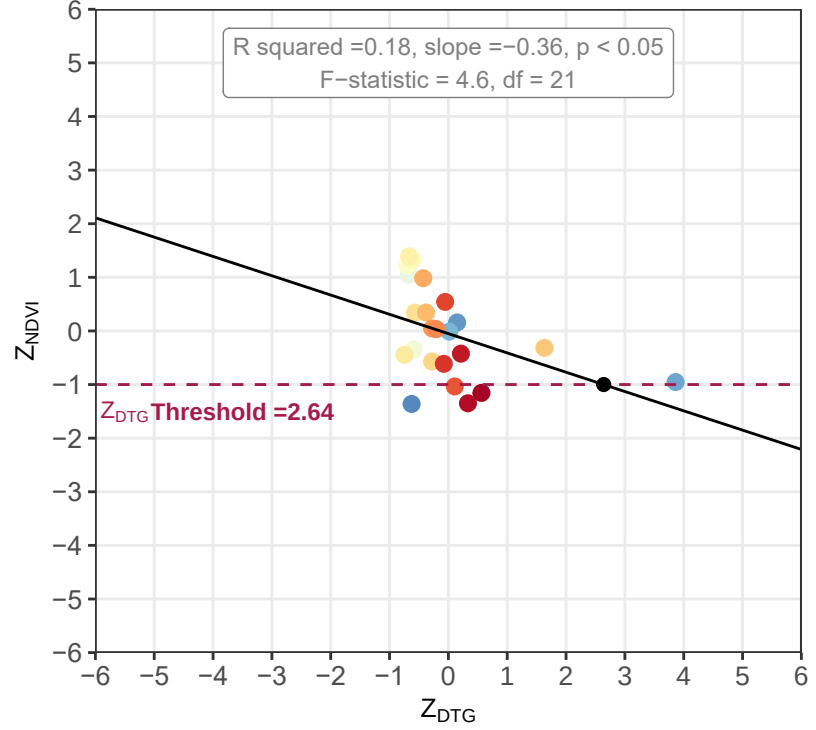
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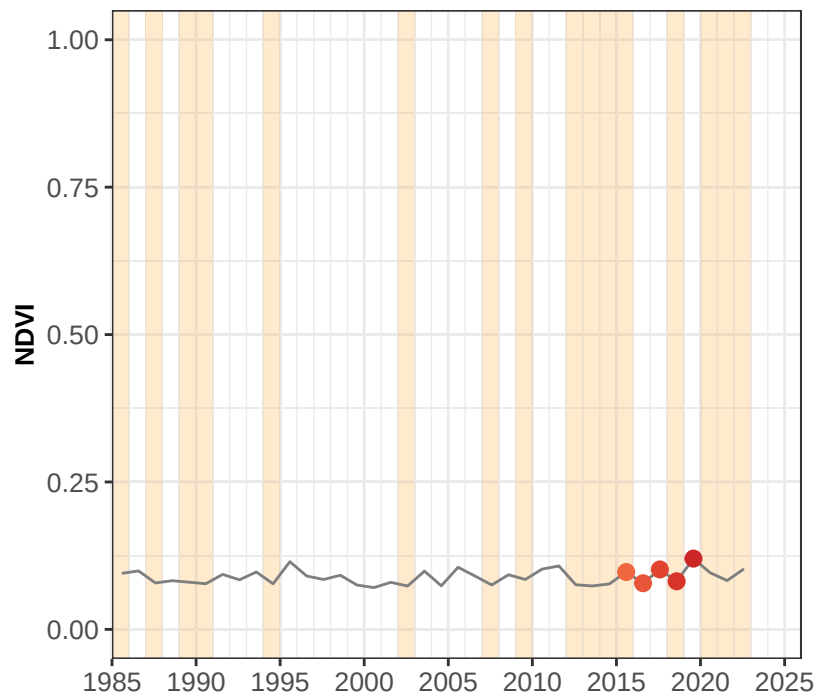


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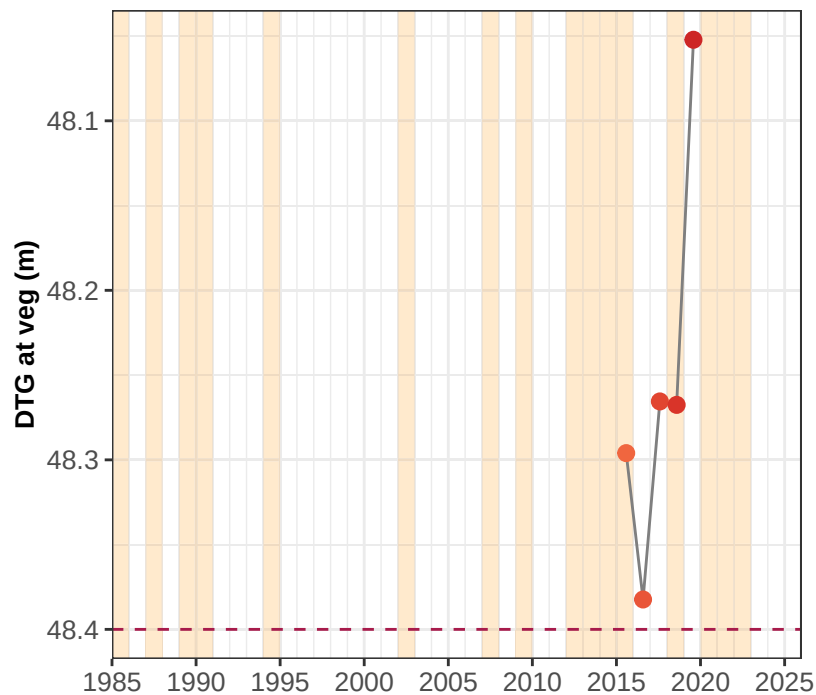


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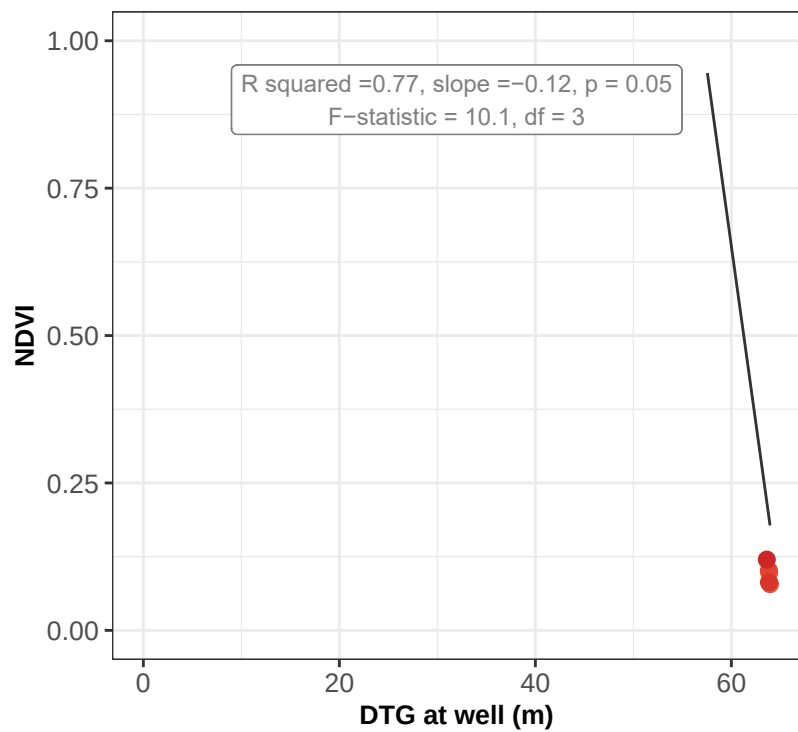
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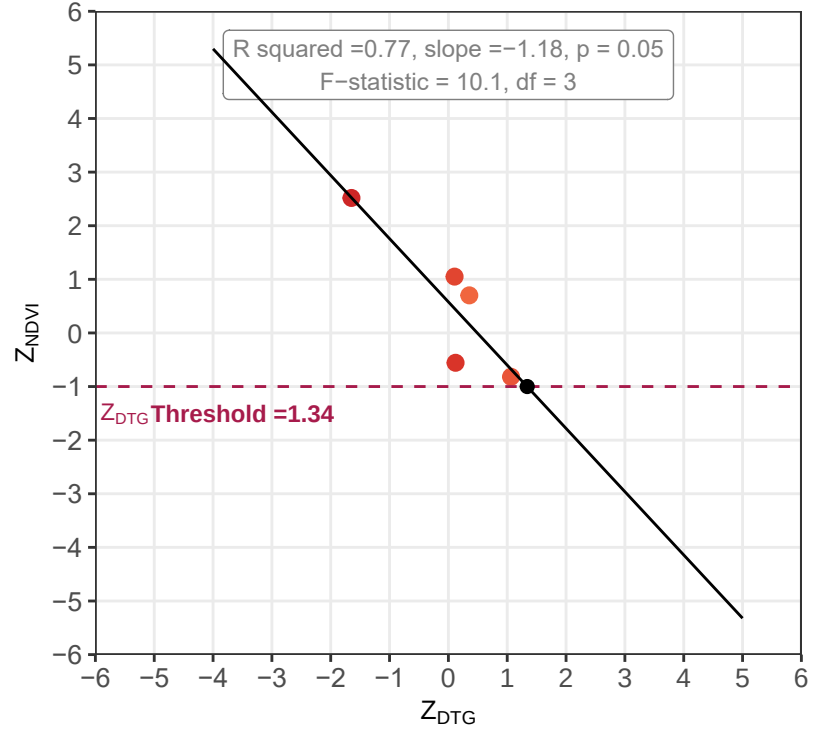
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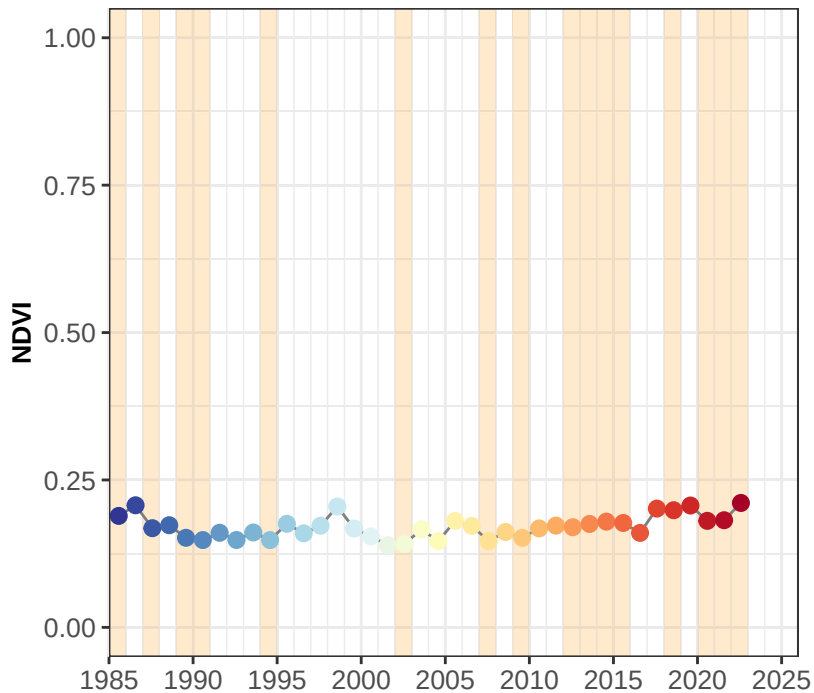


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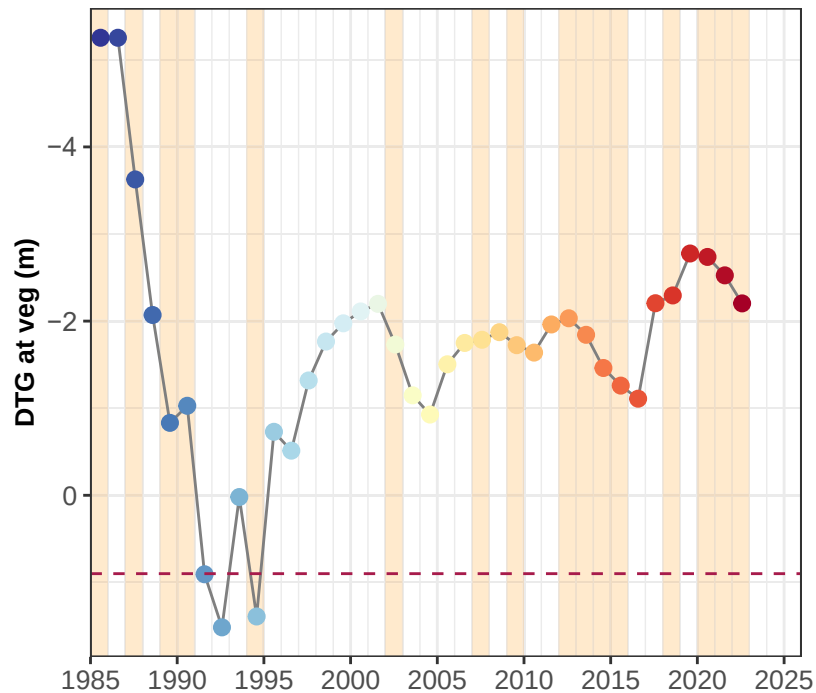


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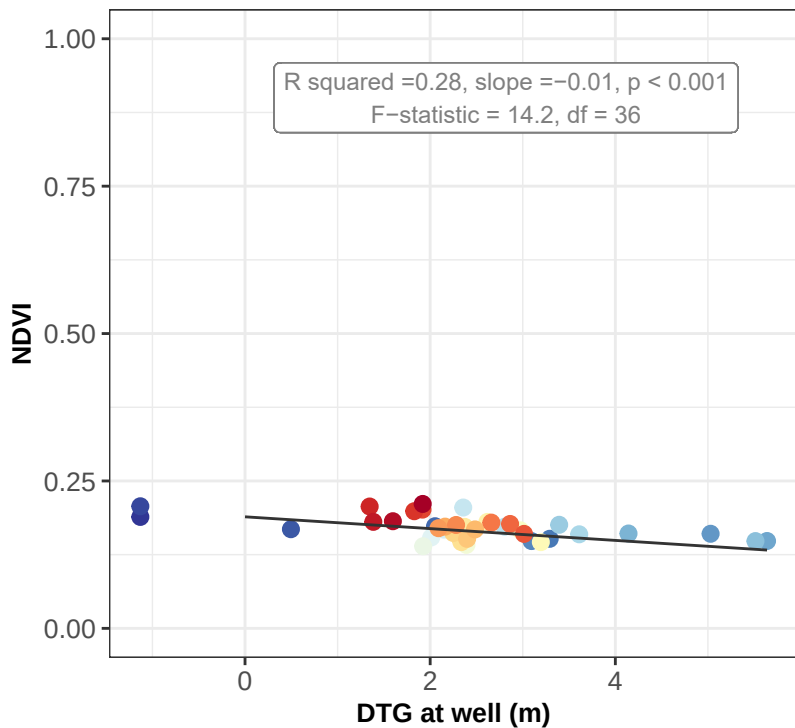
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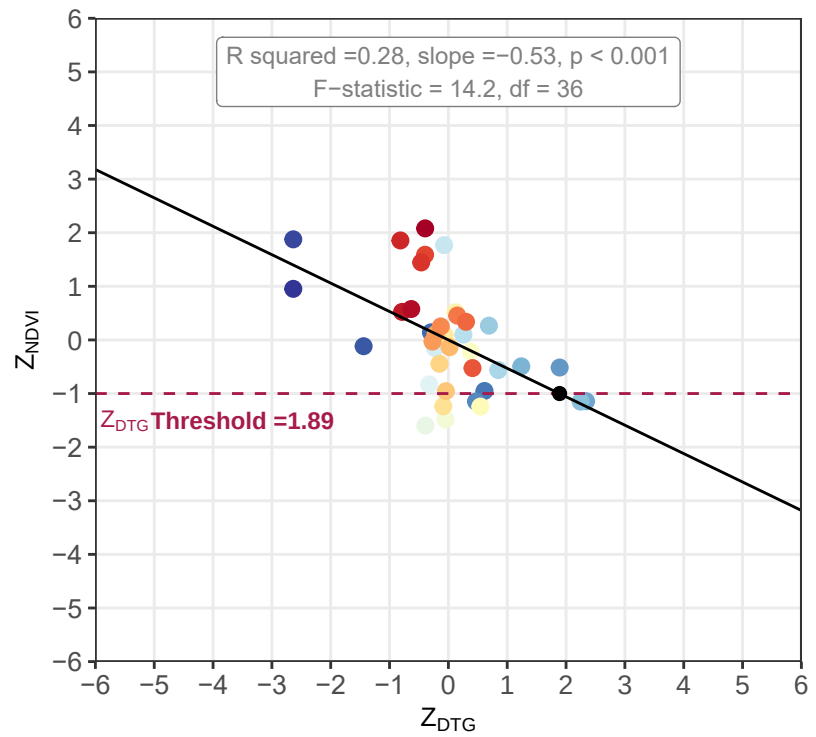
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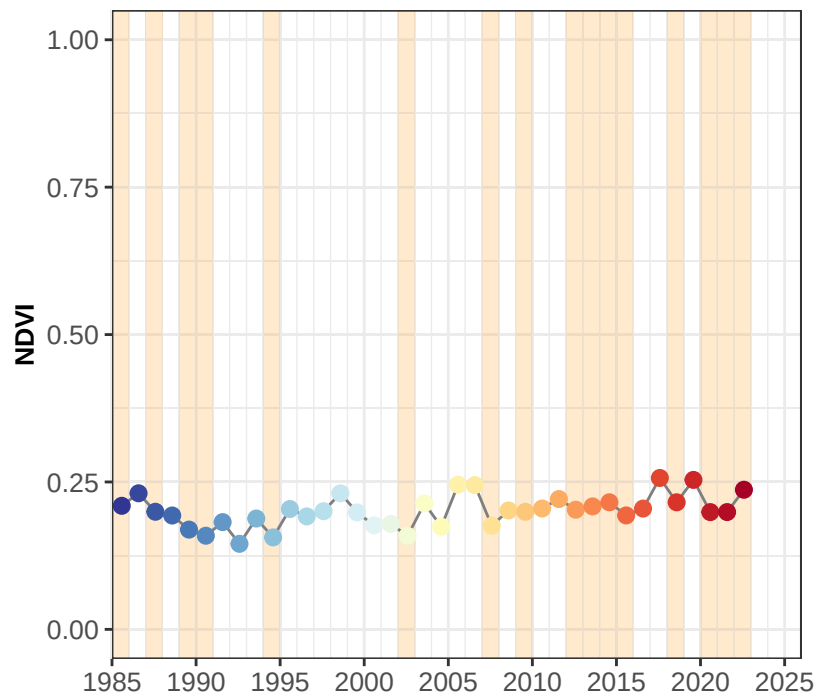


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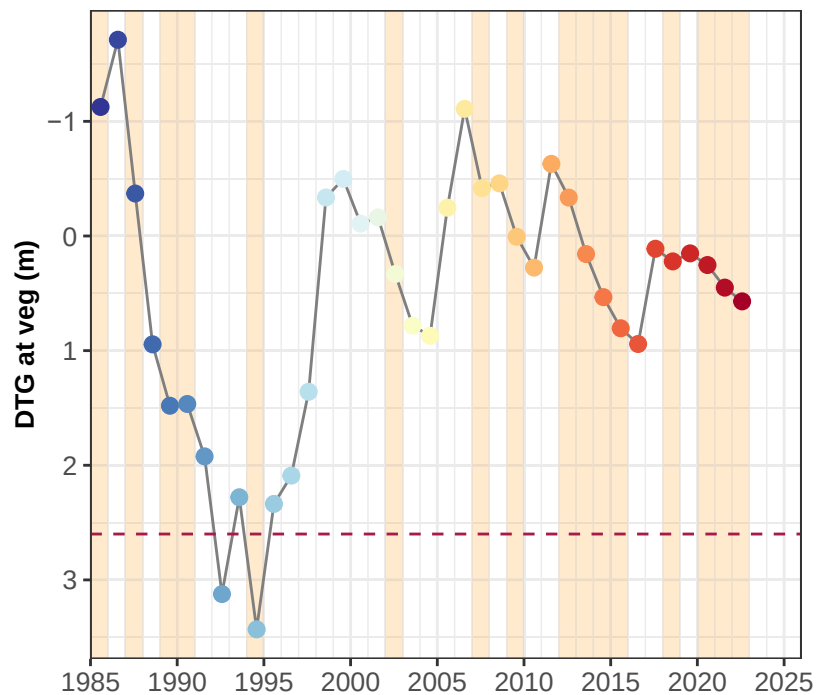


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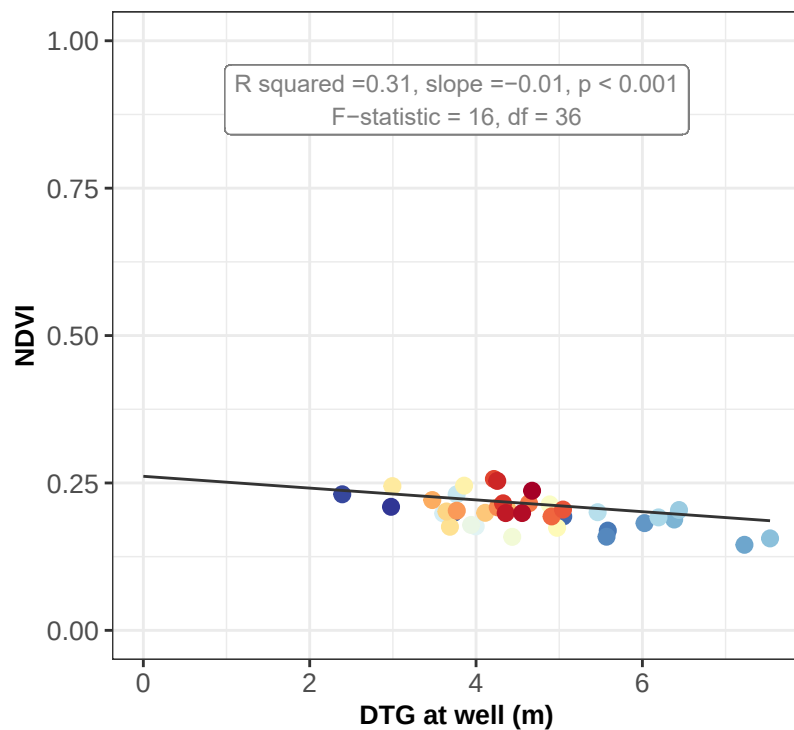
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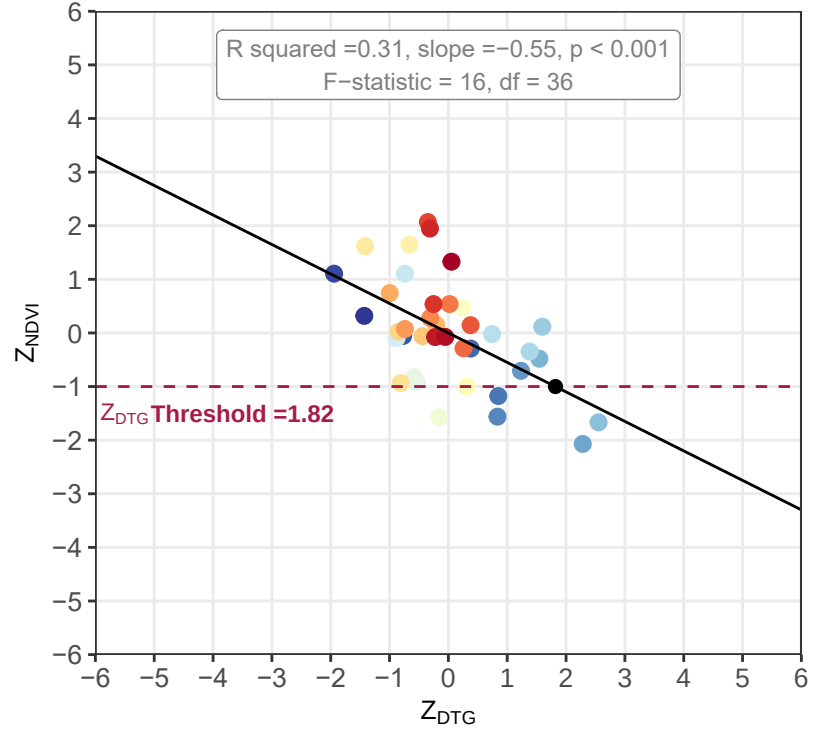
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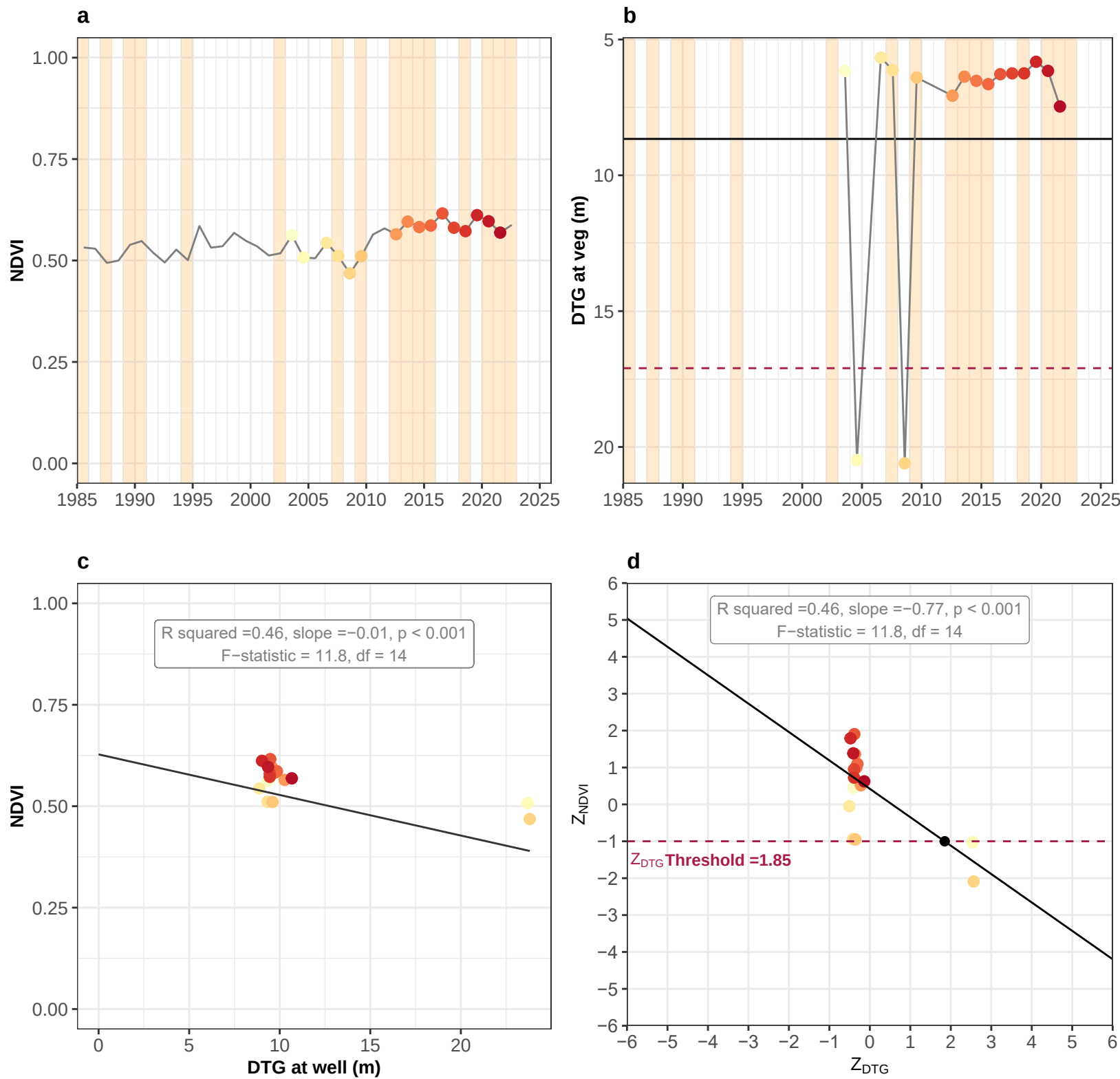
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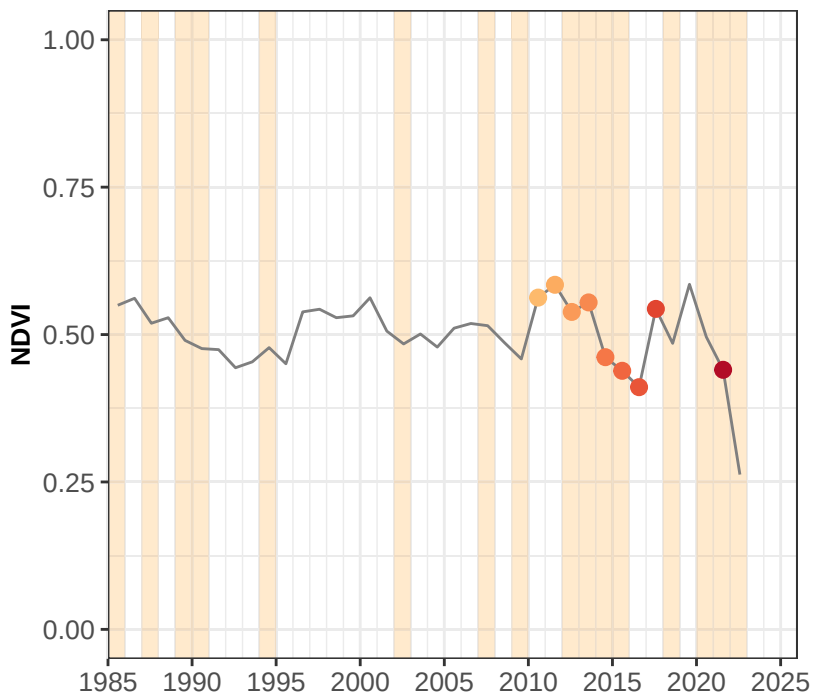


Quercus (gdeID: 130379)

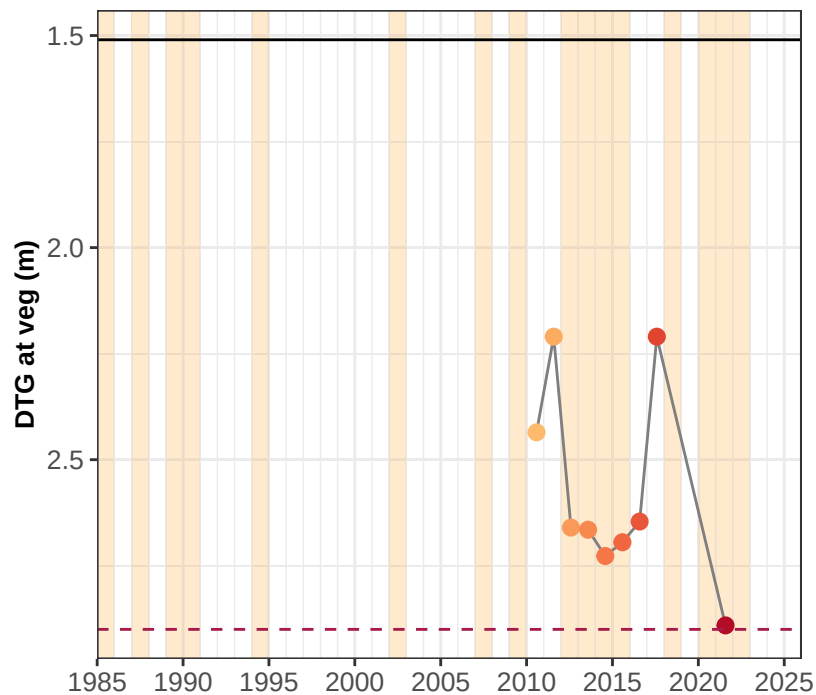


Salix (gdeID: 13052)

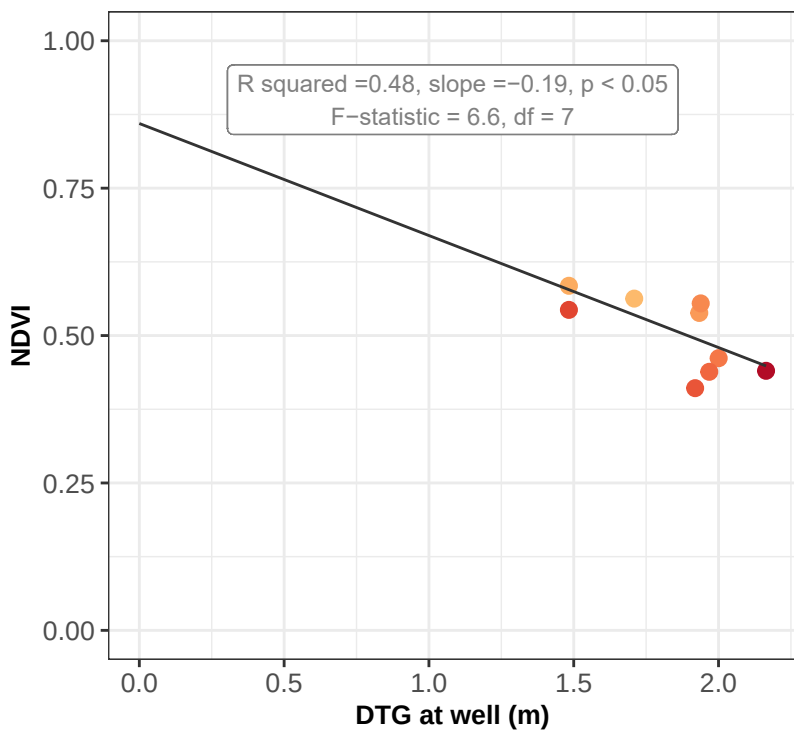
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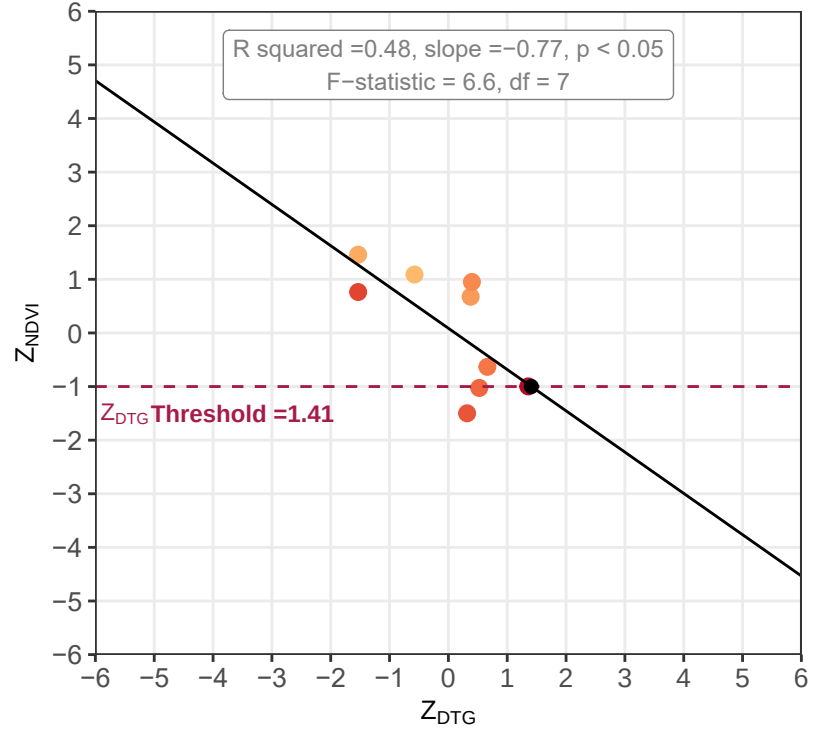
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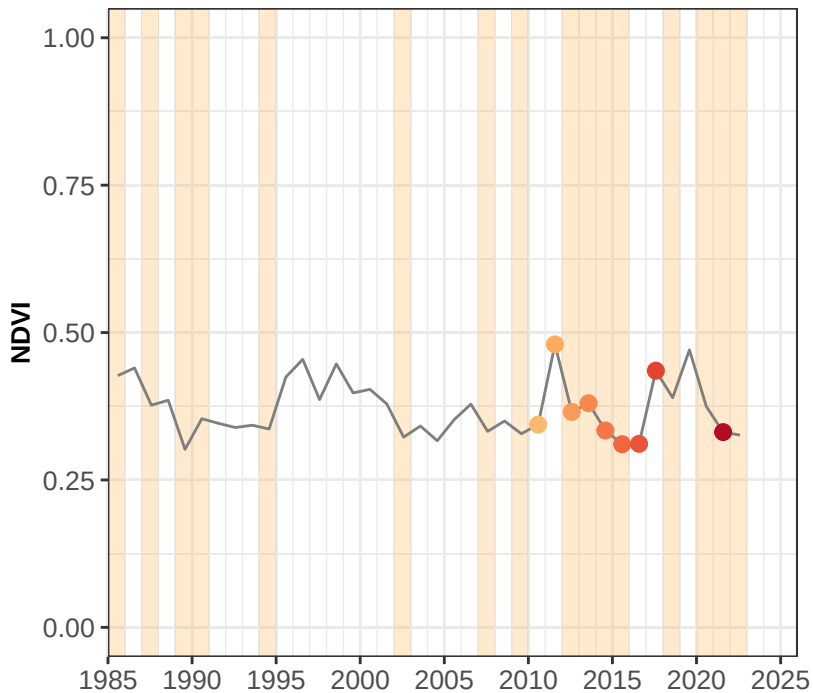


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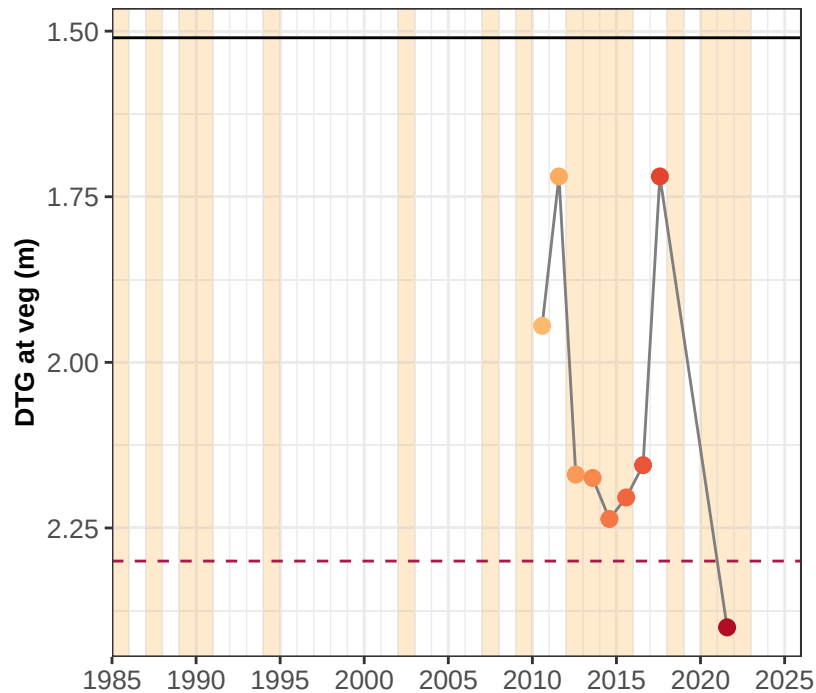


Salix (gdeID: 13061)

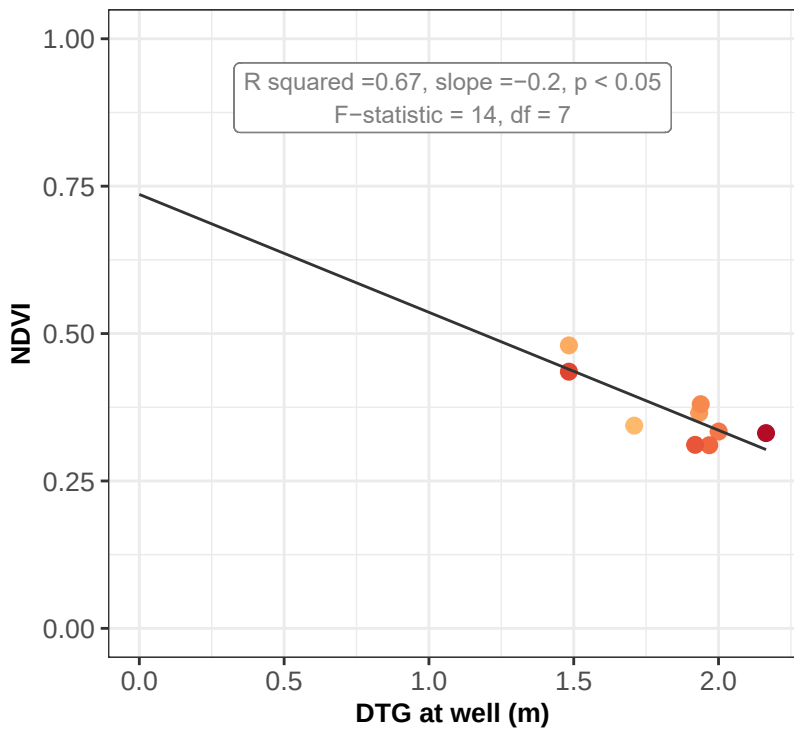
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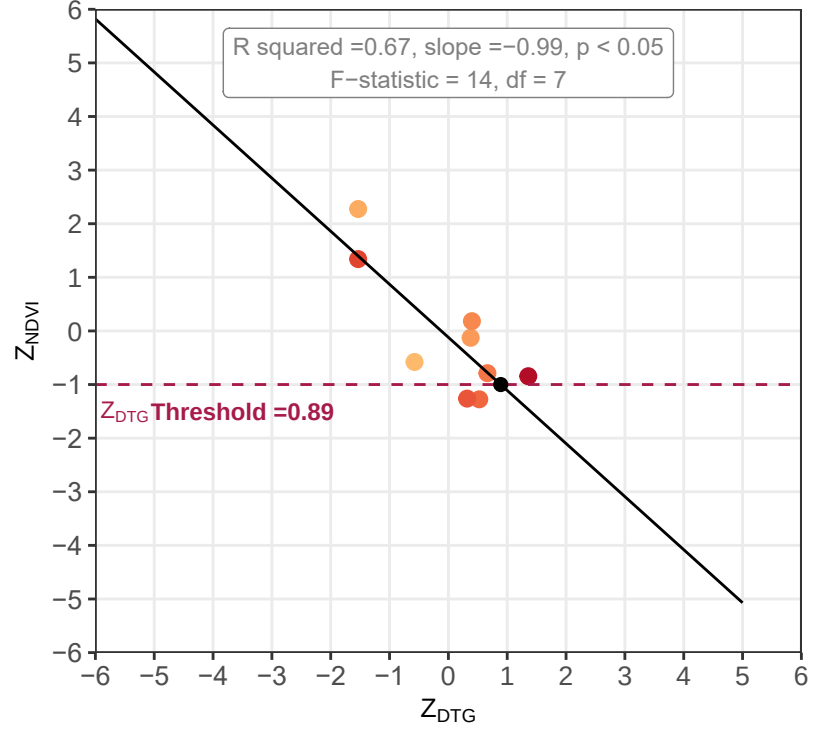
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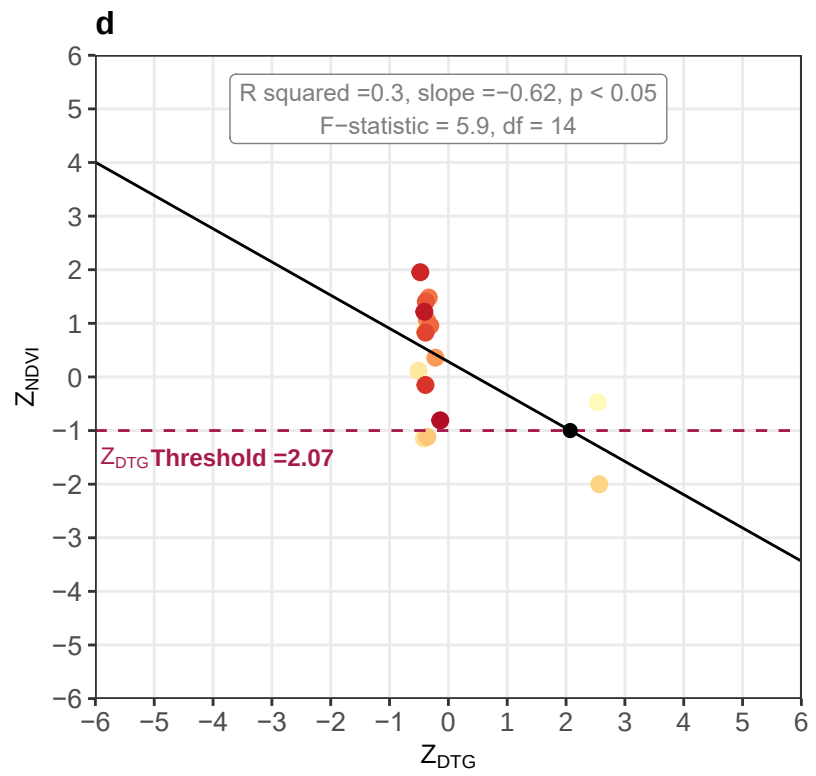
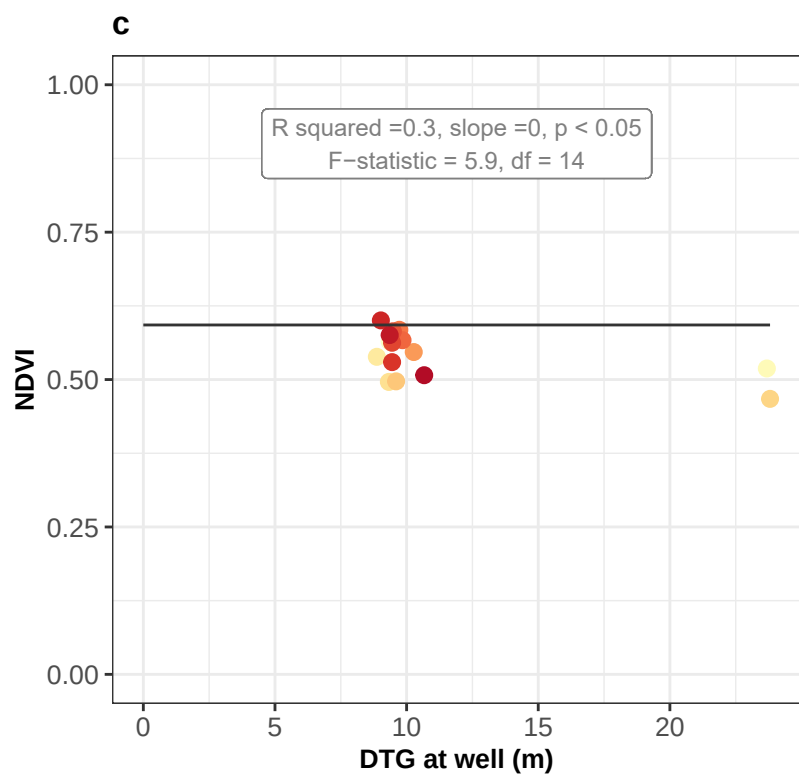
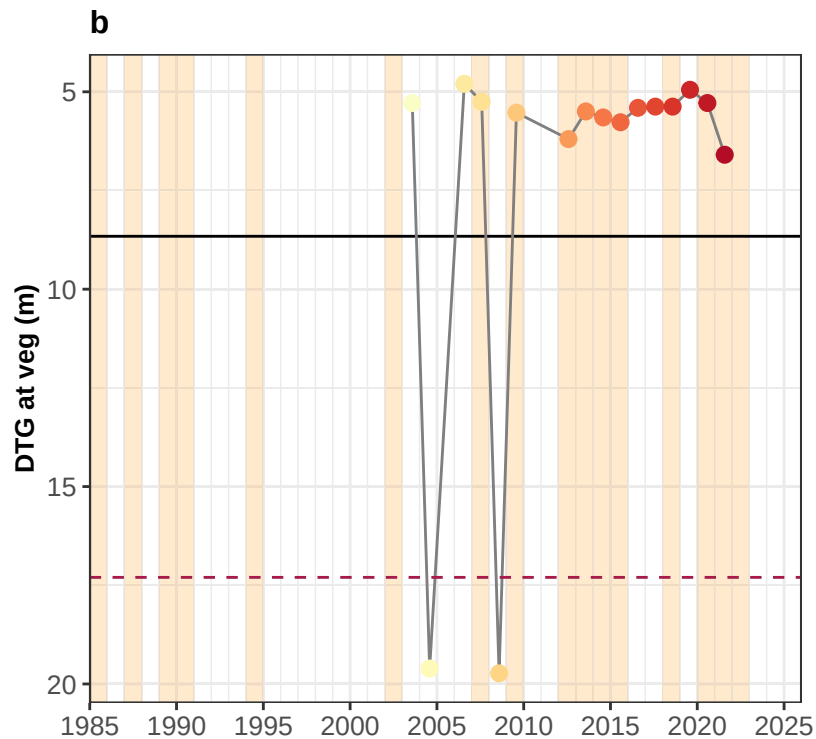
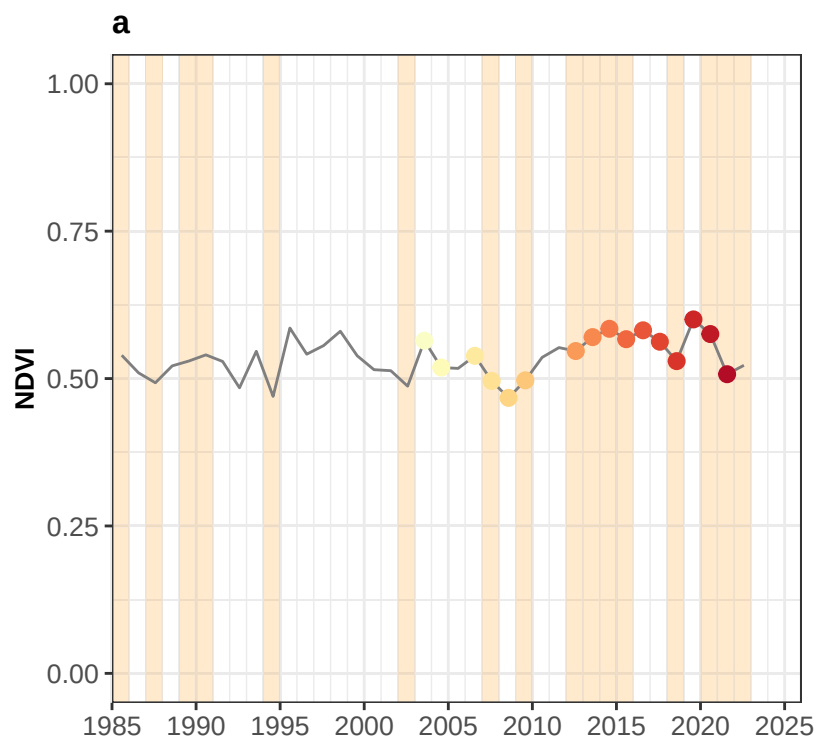
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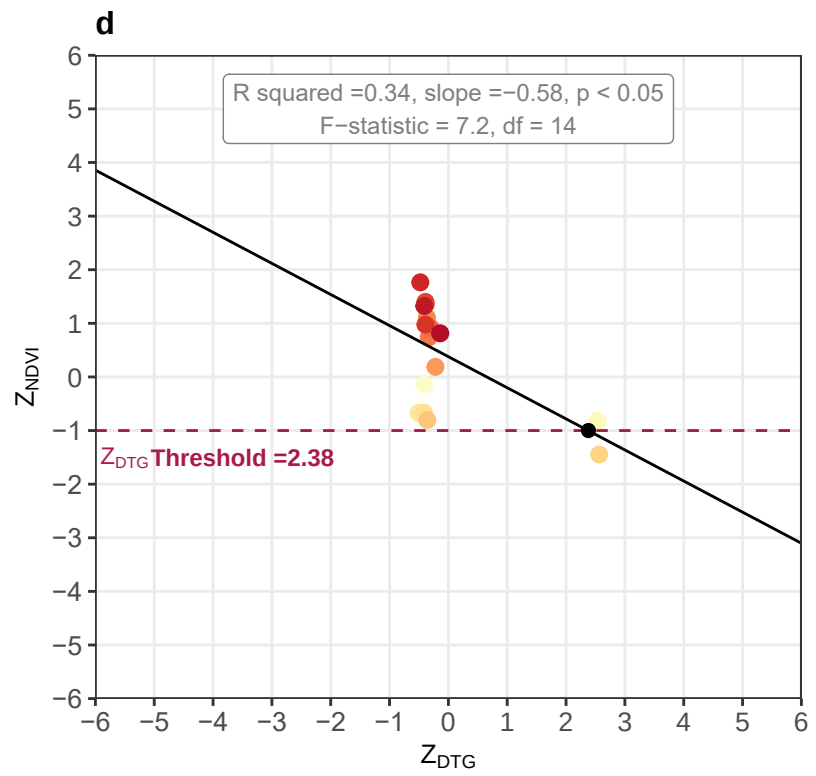
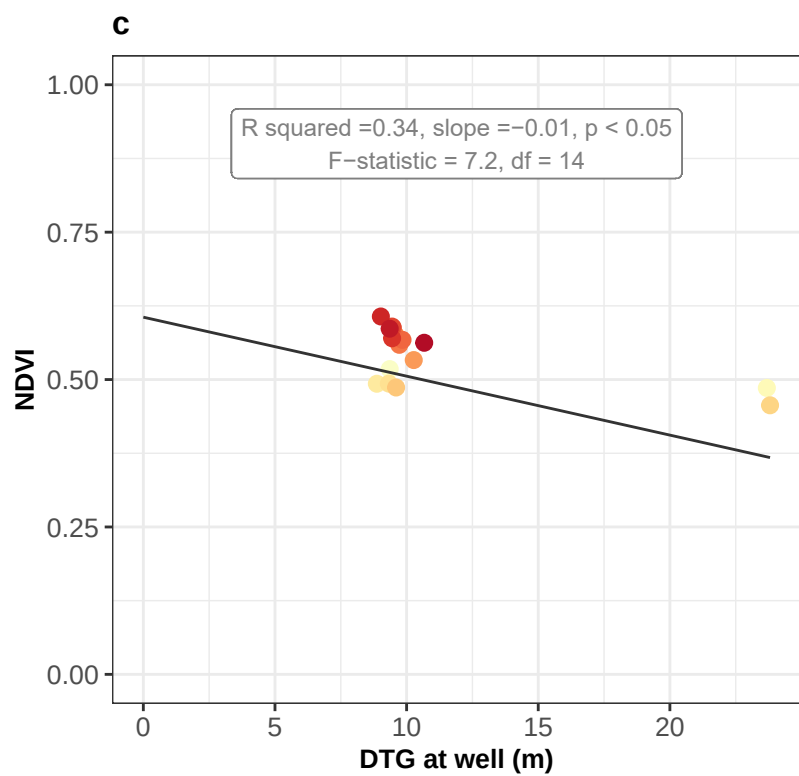
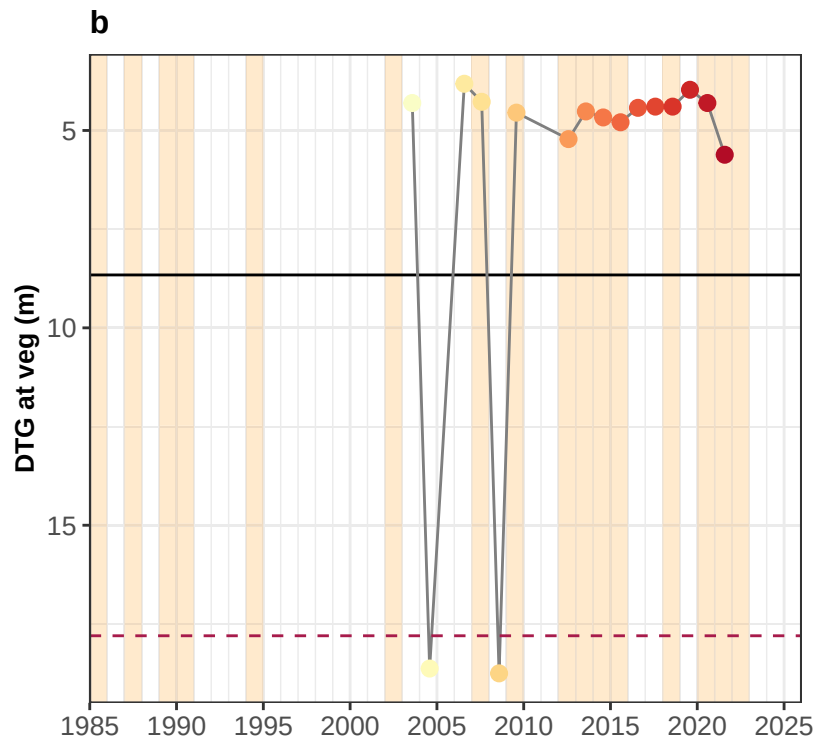
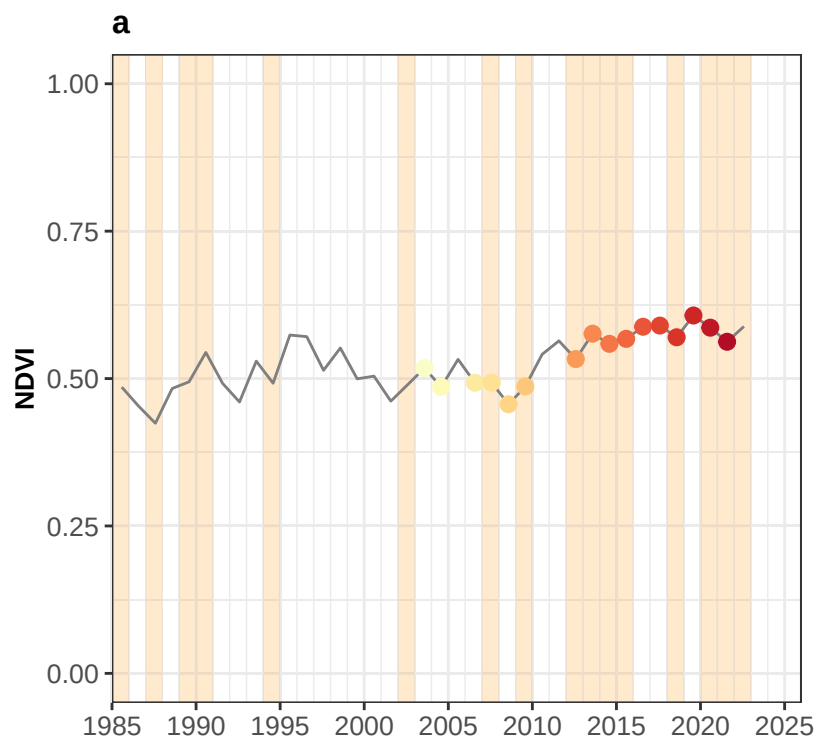
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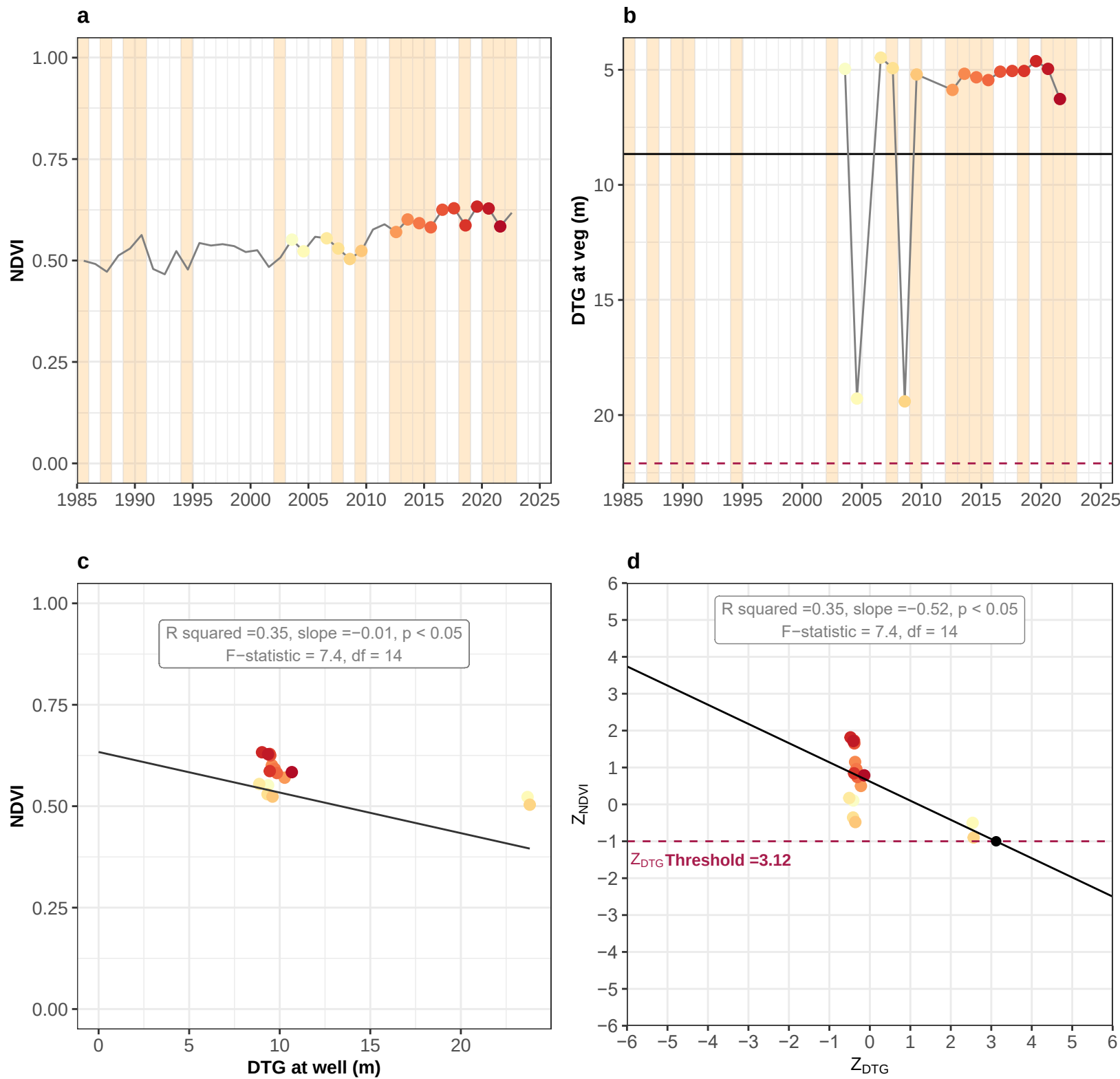
Quercus (gdeID: 130734)



Quercus (gdeID: 130736)

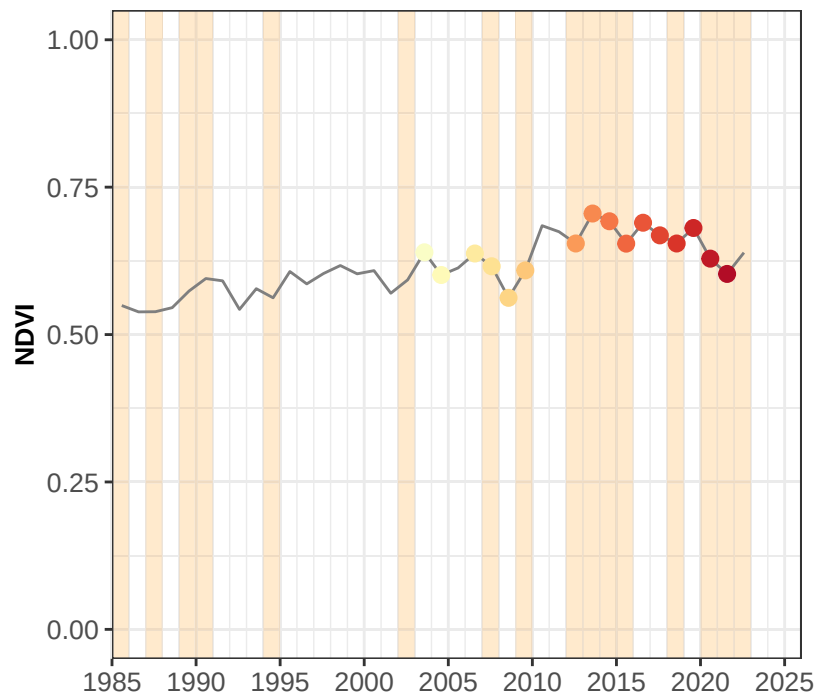


Quercus (gdeID: 130741)

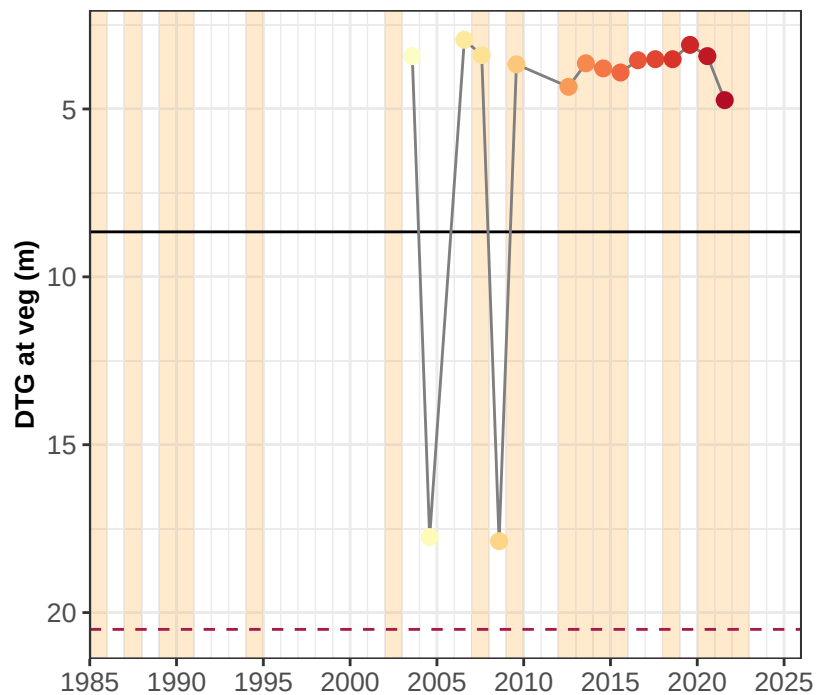


Quercus (gdeID: 130751)

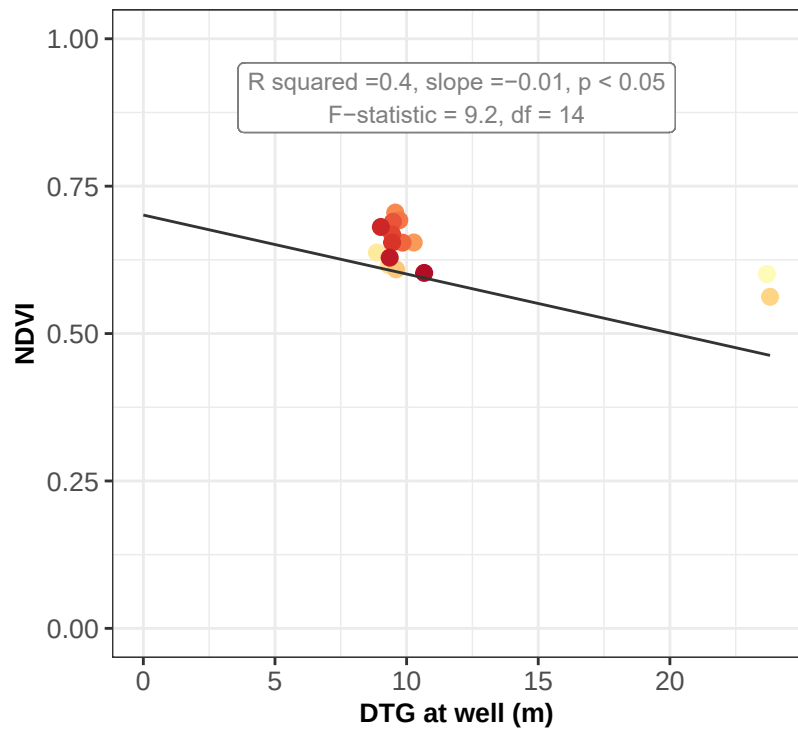
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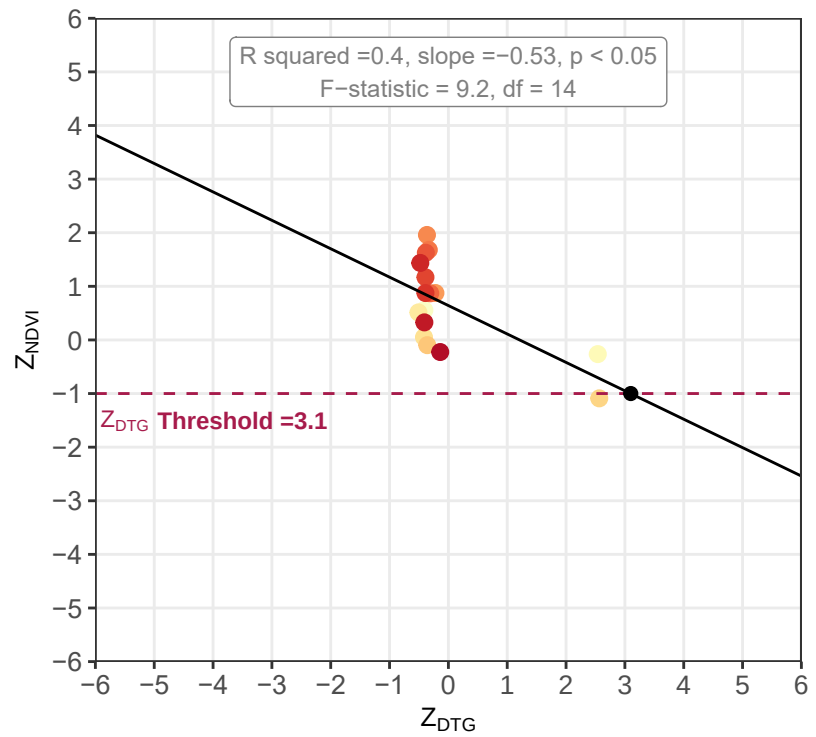
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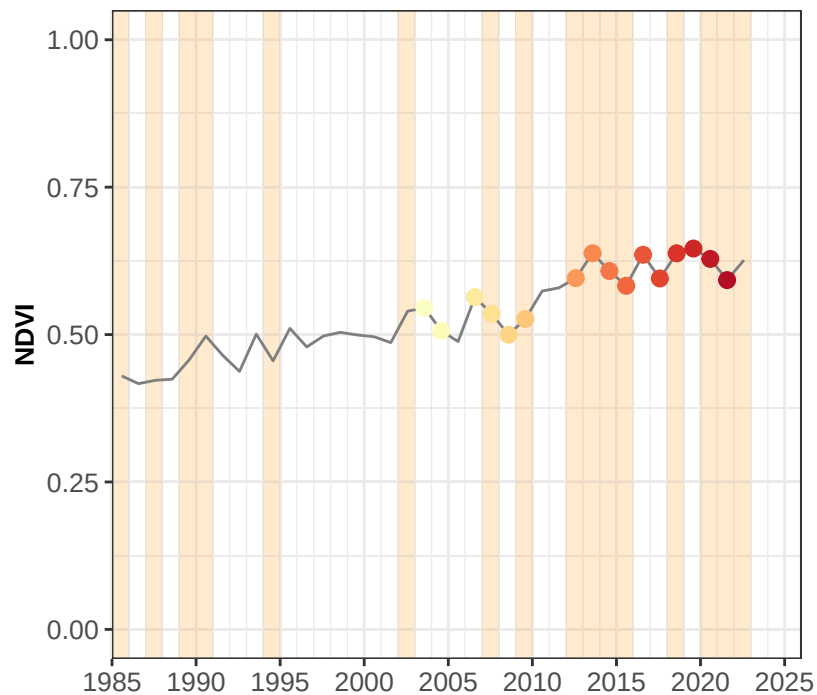


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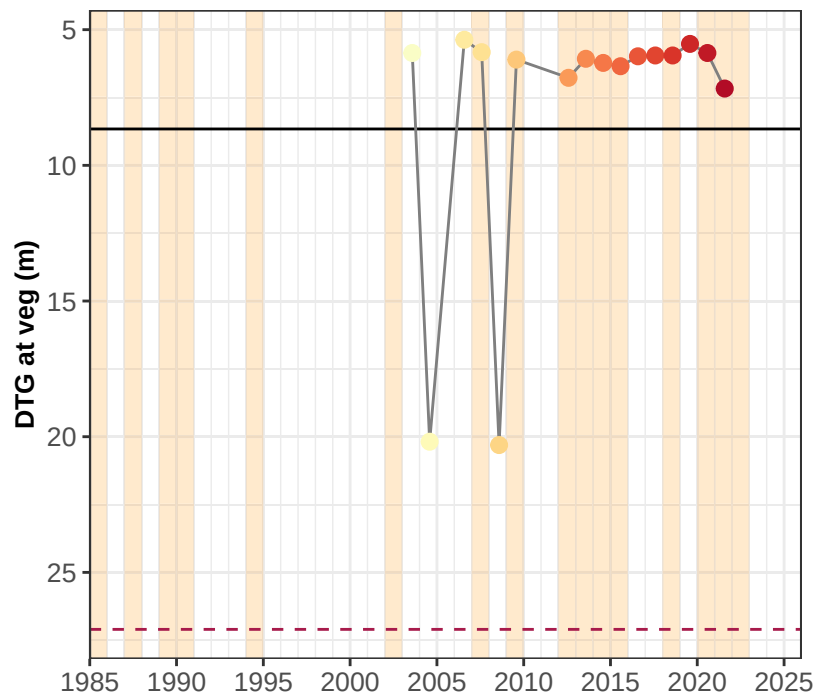


Quercus (gdeID: 130756)

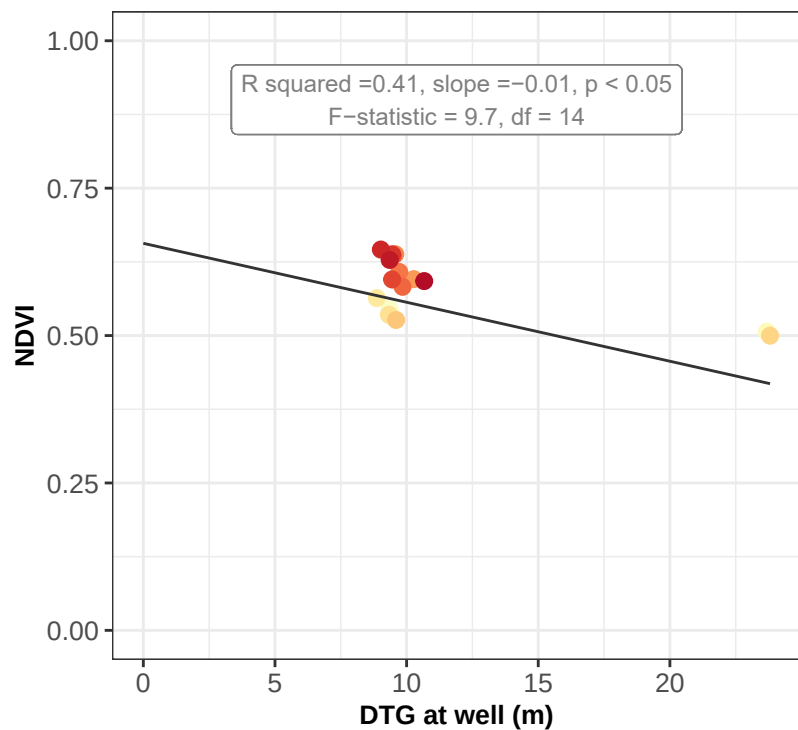
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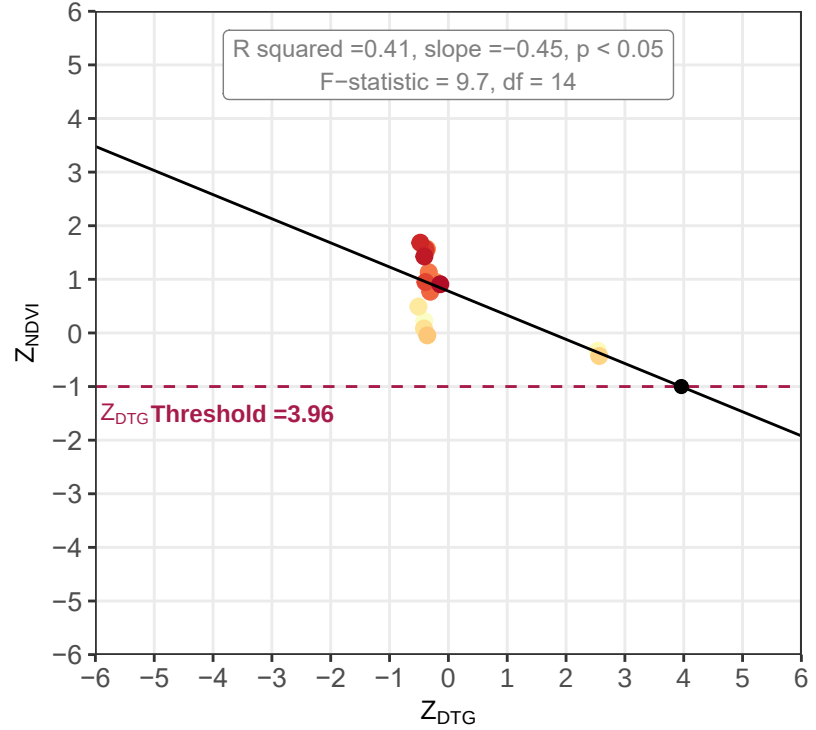
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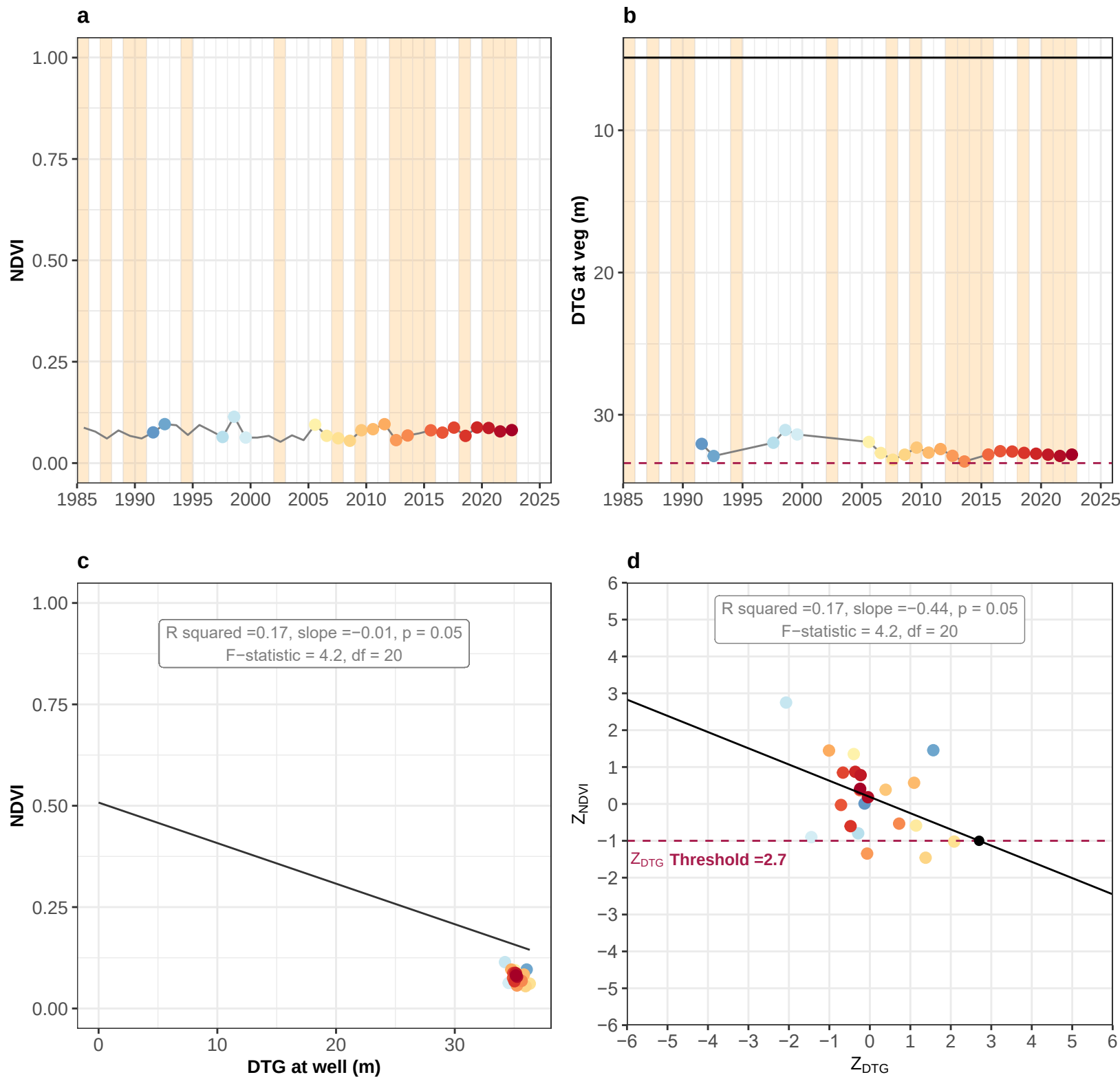
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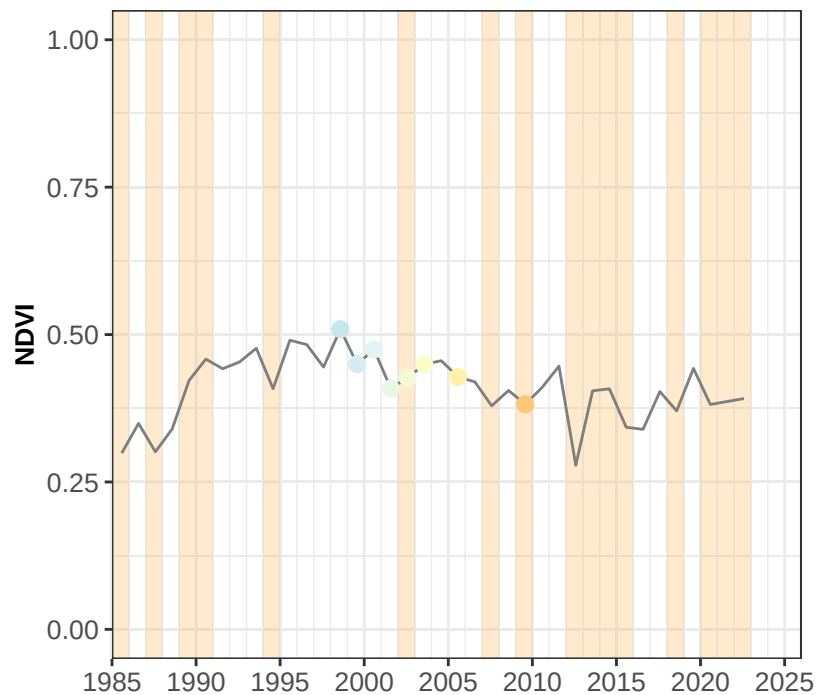


Atriplex (gdeID: 131577)

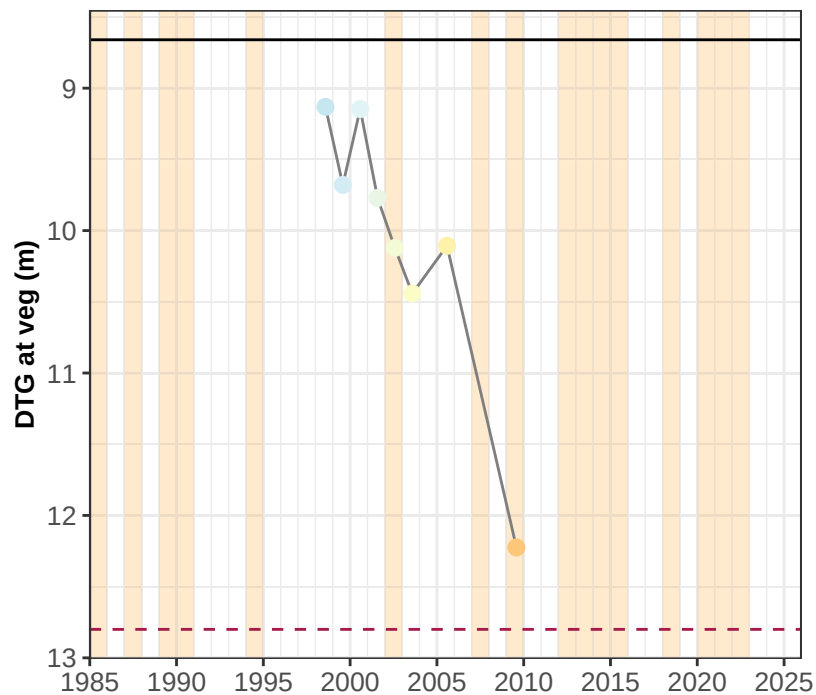


Quercus (gdeID: 131802)

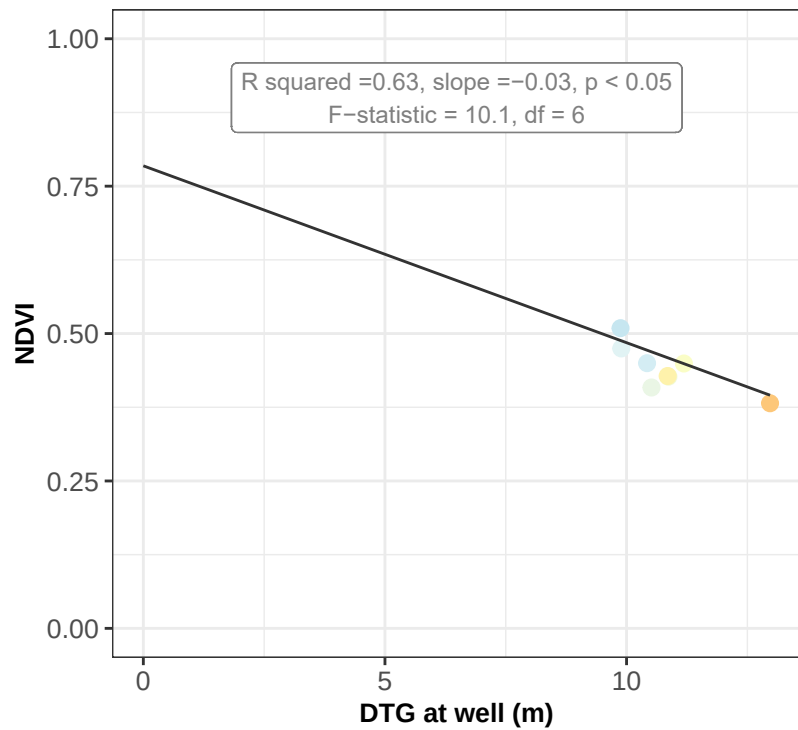
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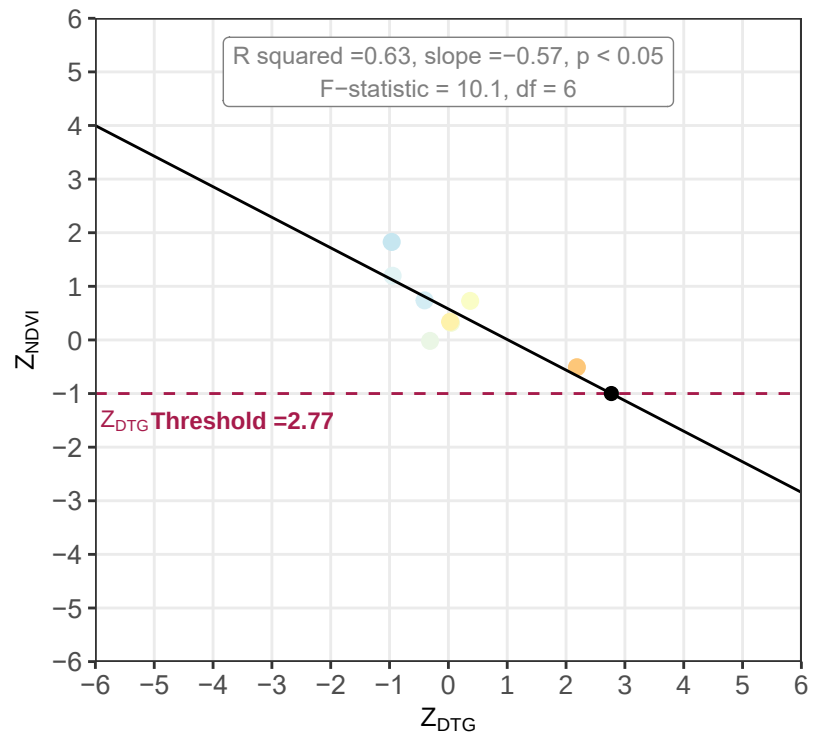
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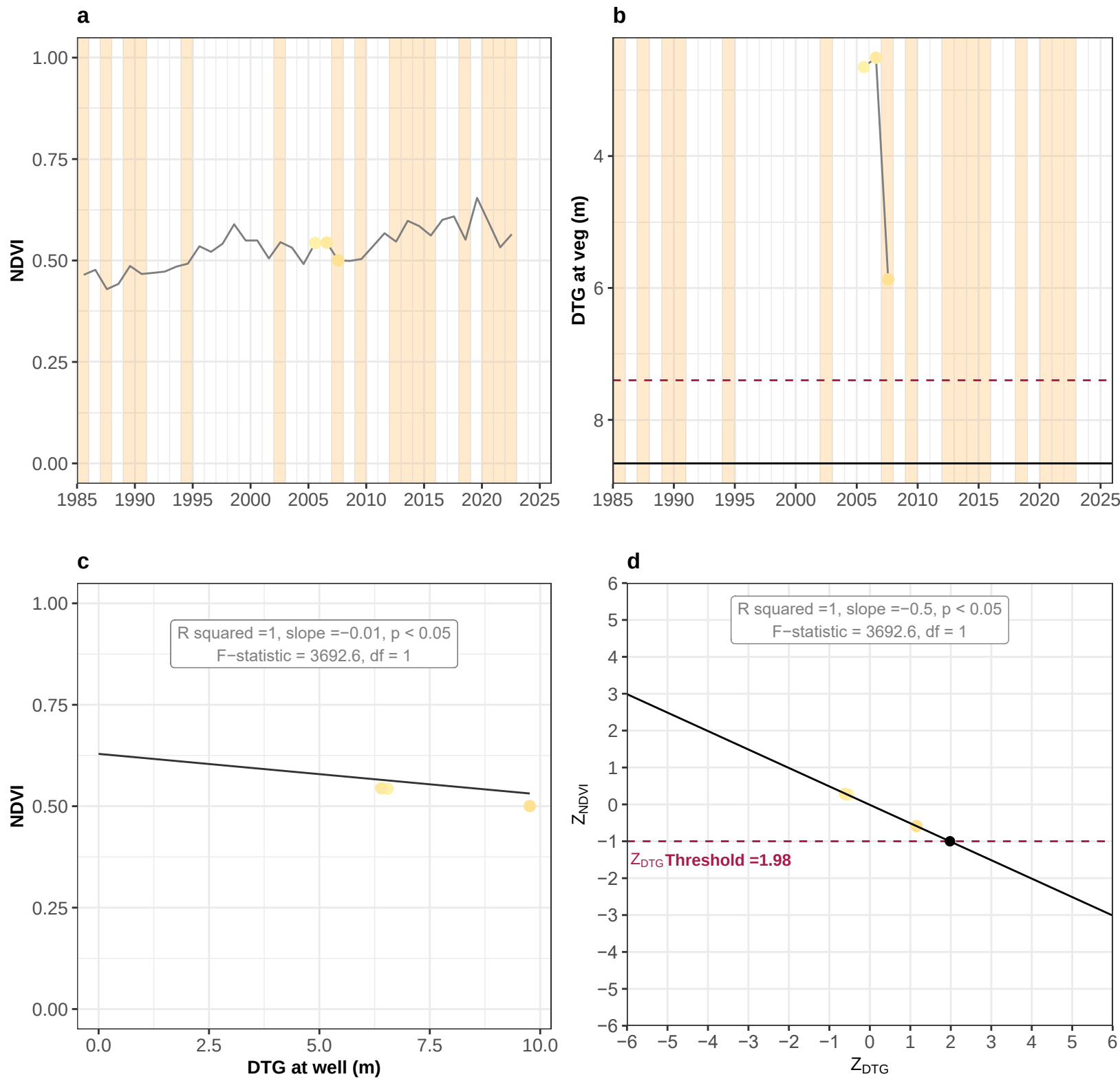
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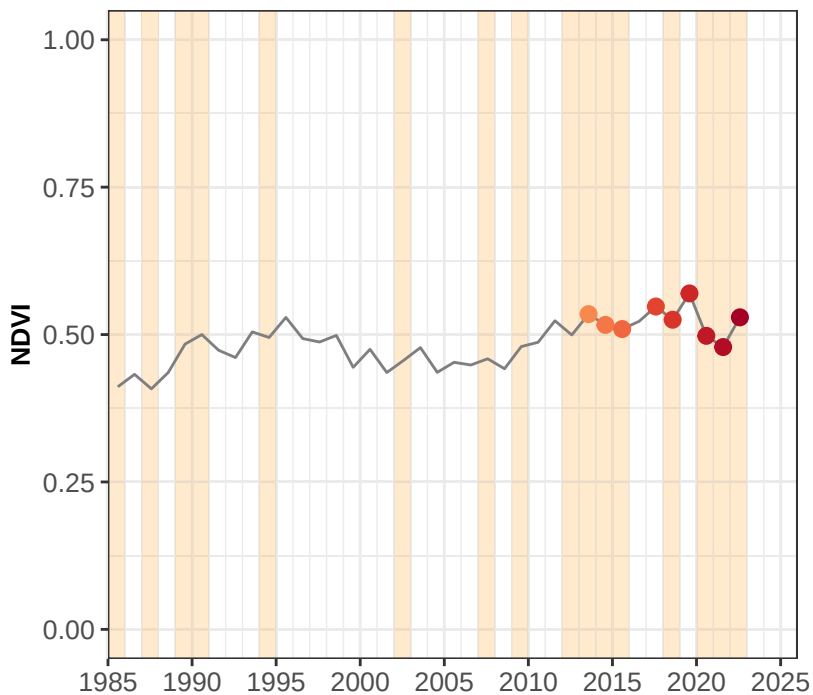


Quercus (gdeID: 132133)

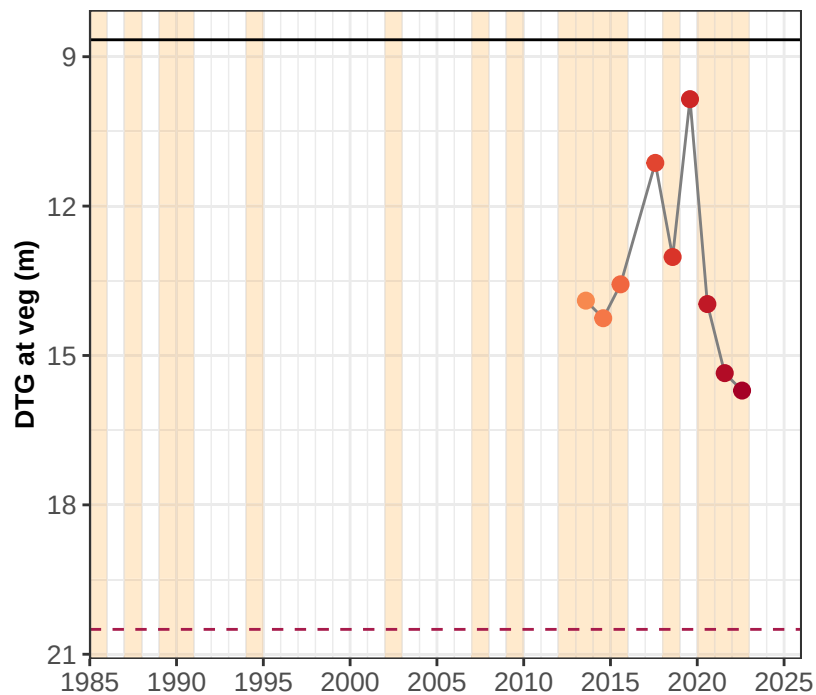


Quercus (gdeID: 132591)

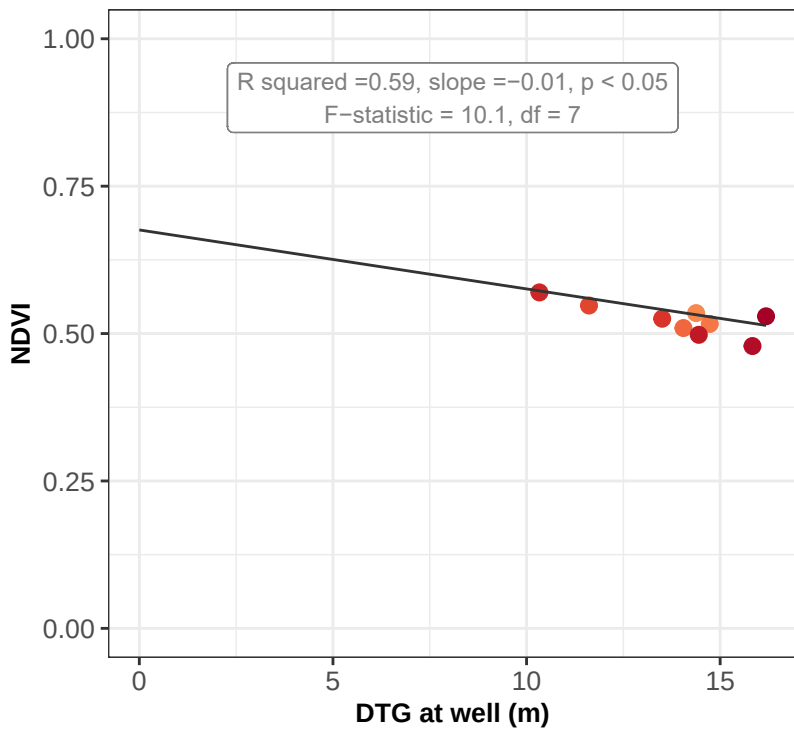
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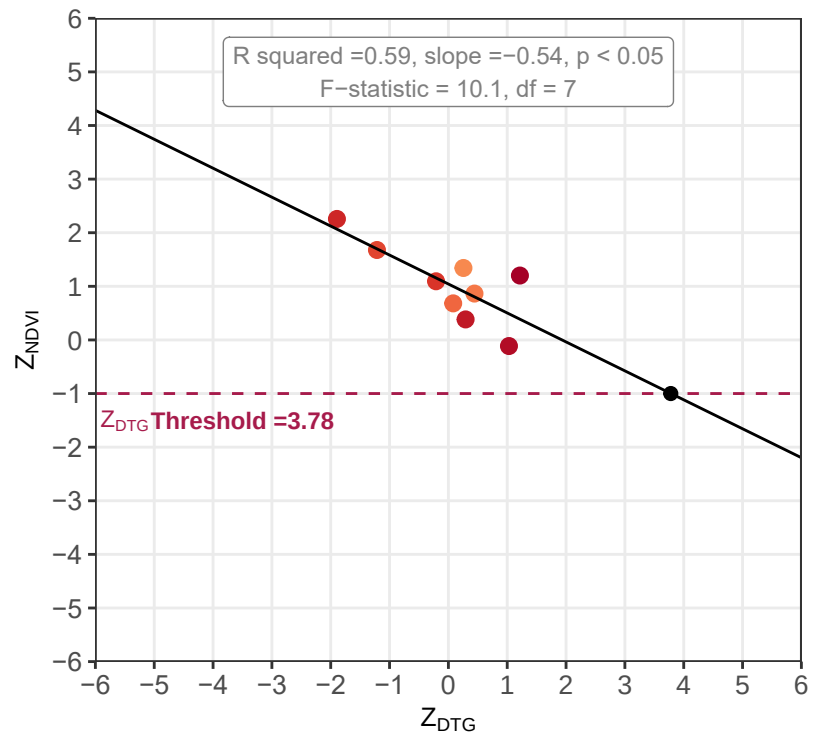
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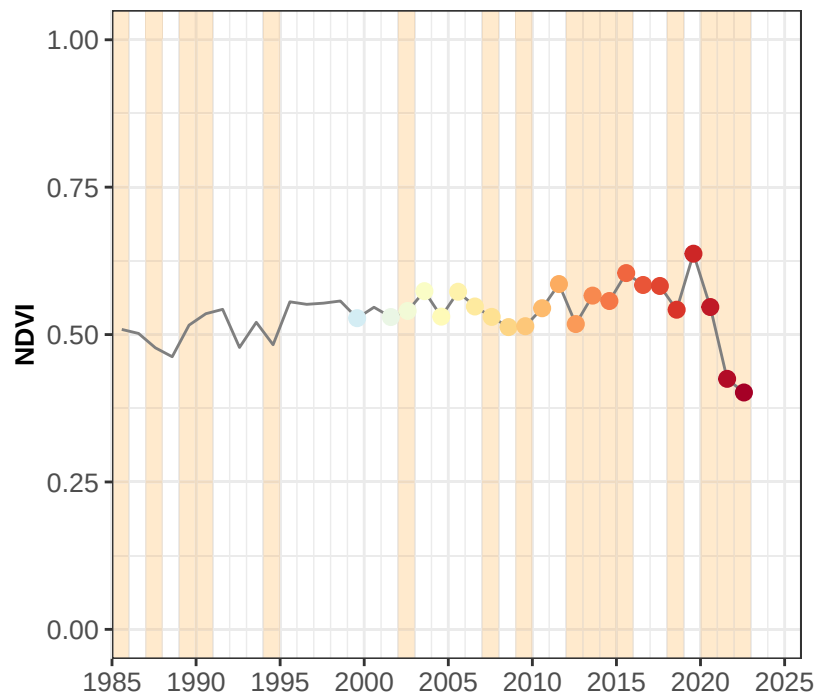


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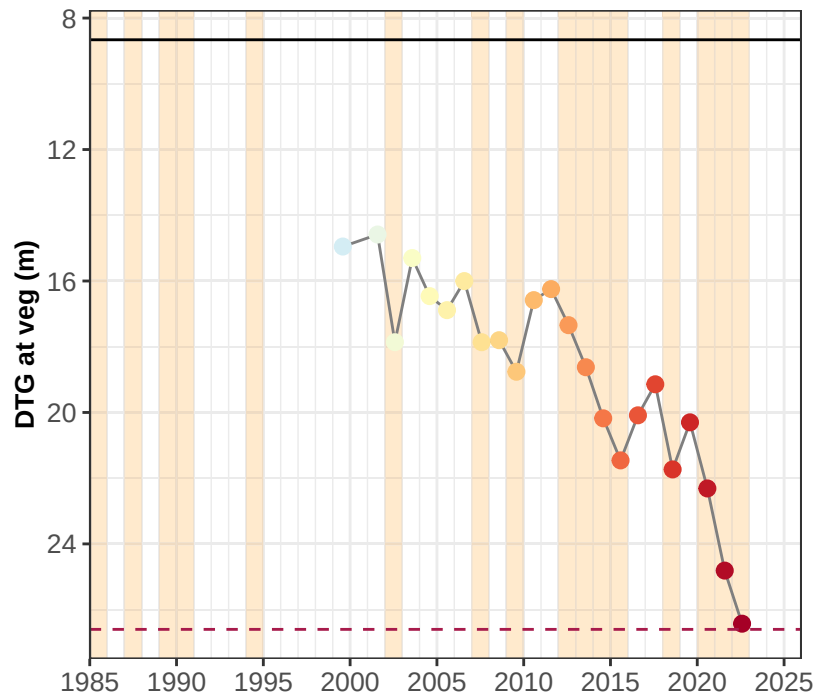


Quercus (gdeID: 133680)

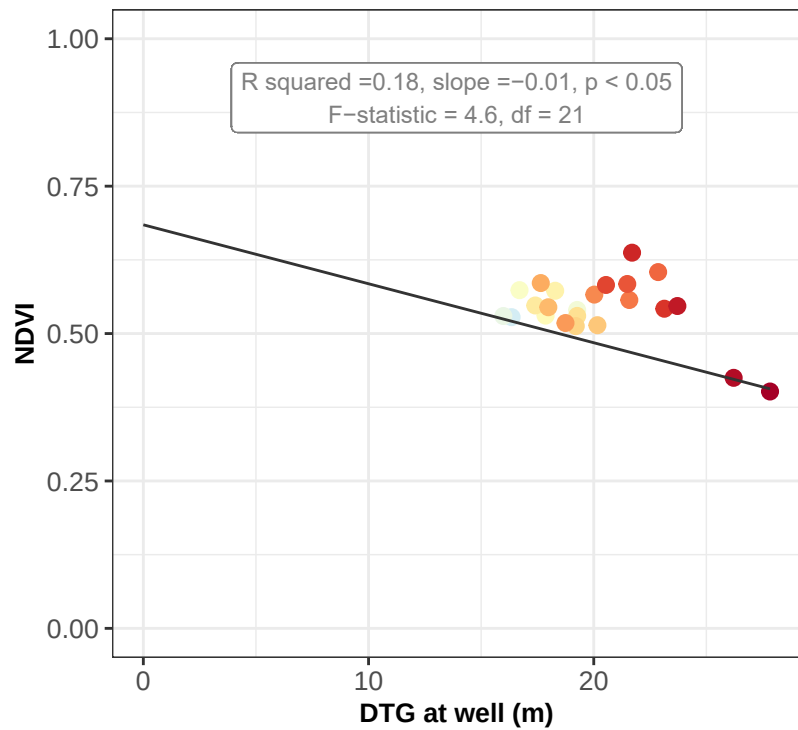
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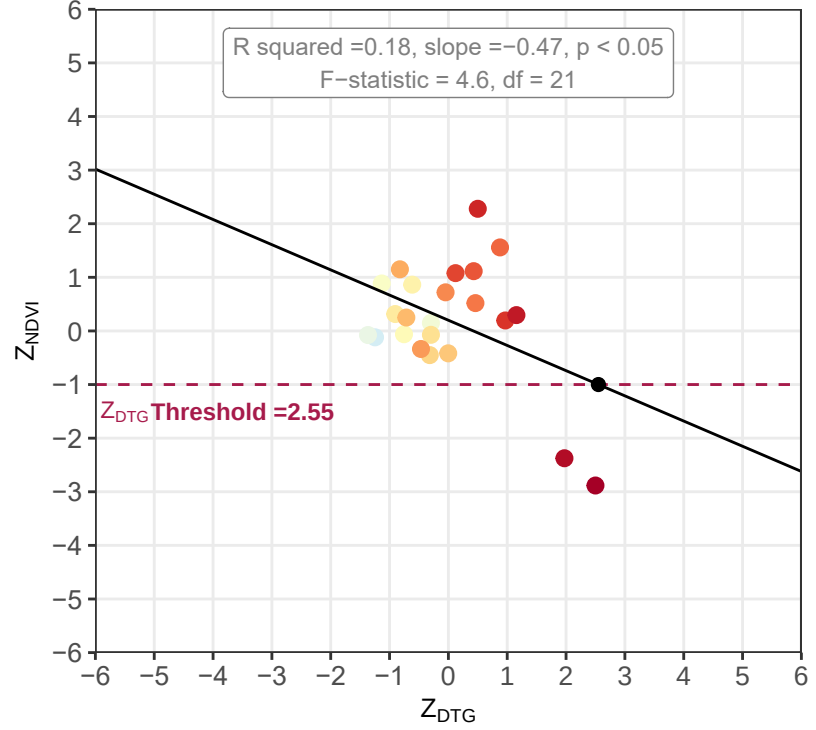
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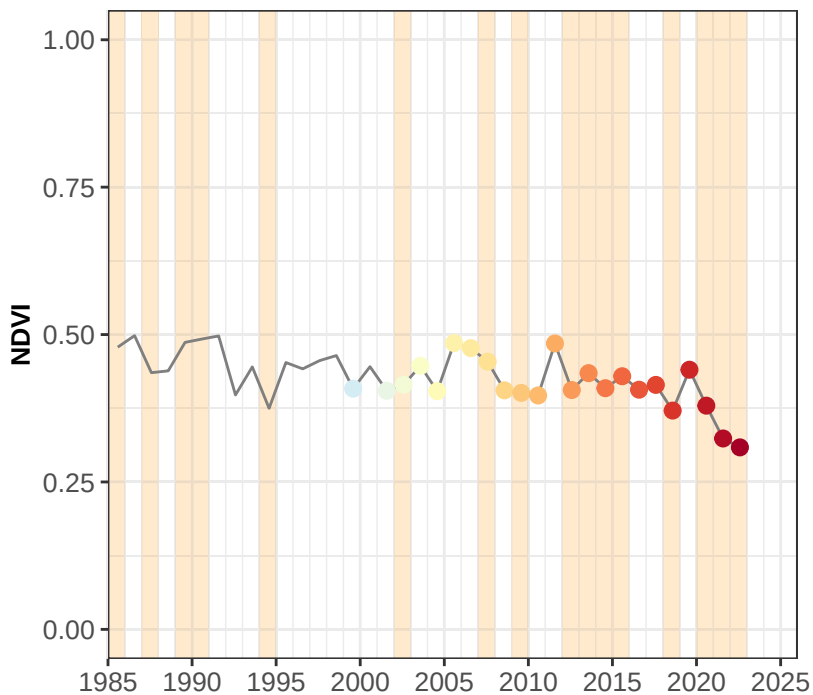


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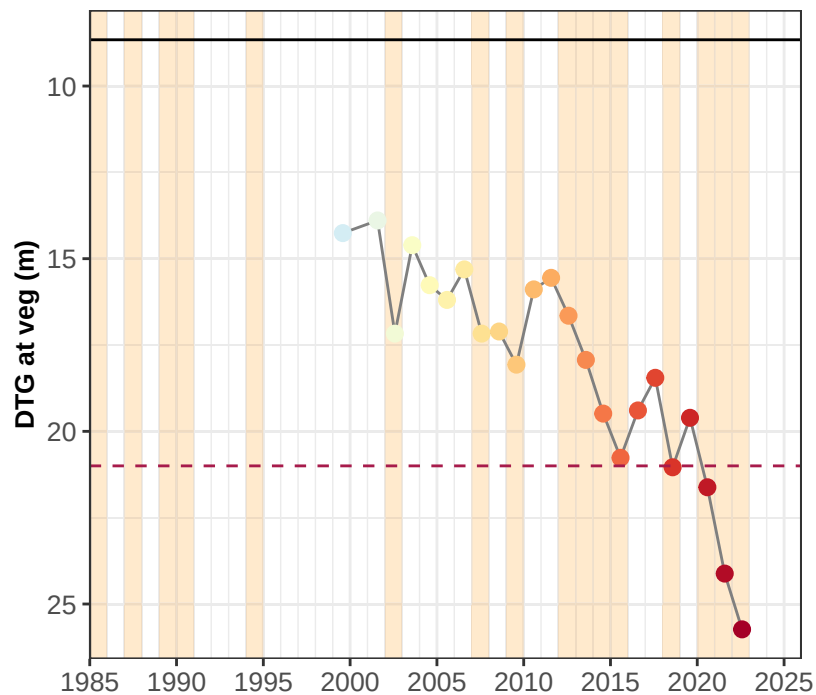


Quercus (gdeID: 133682)

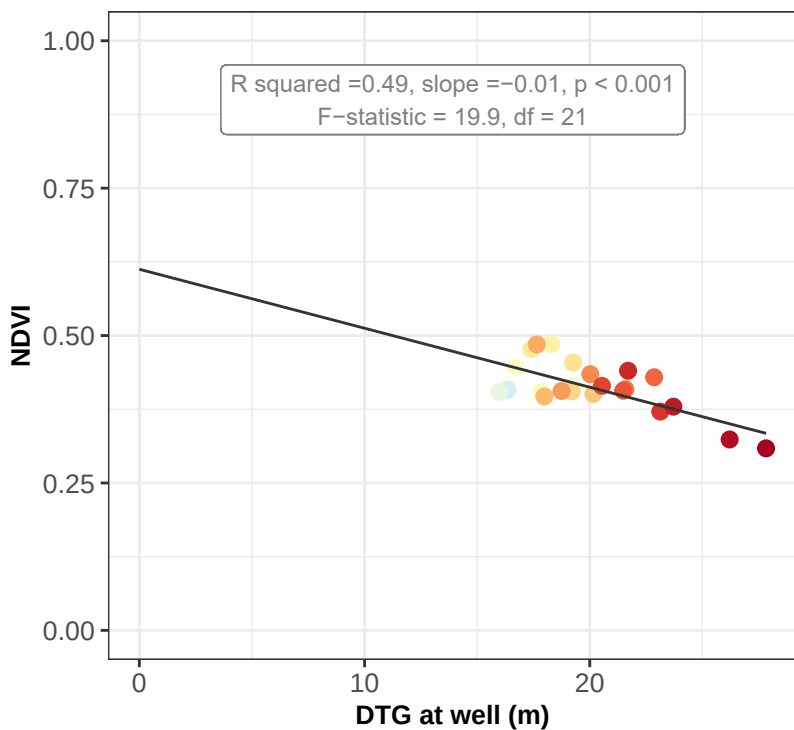
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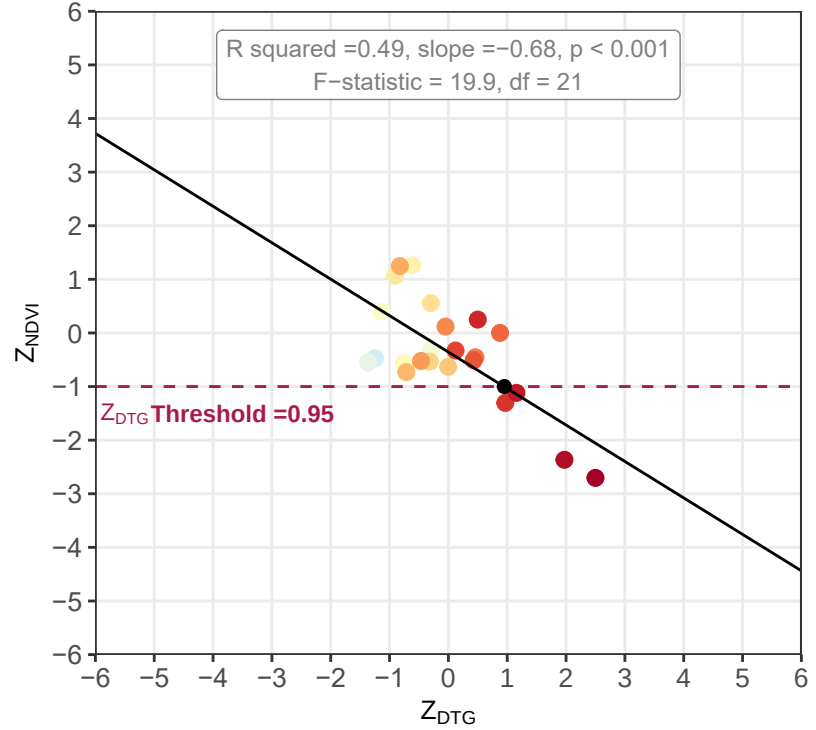
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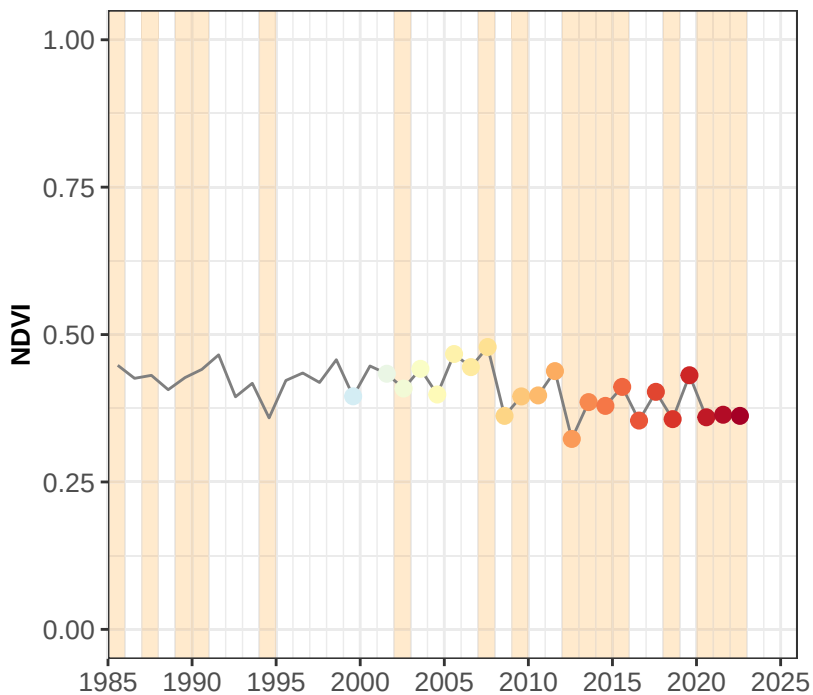


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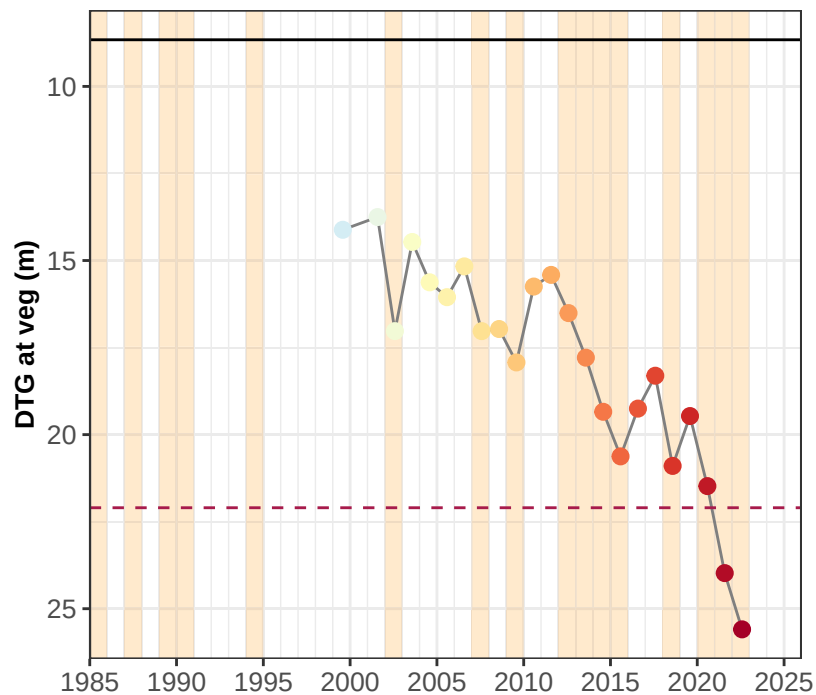


Quercus (gdeID: 133695)

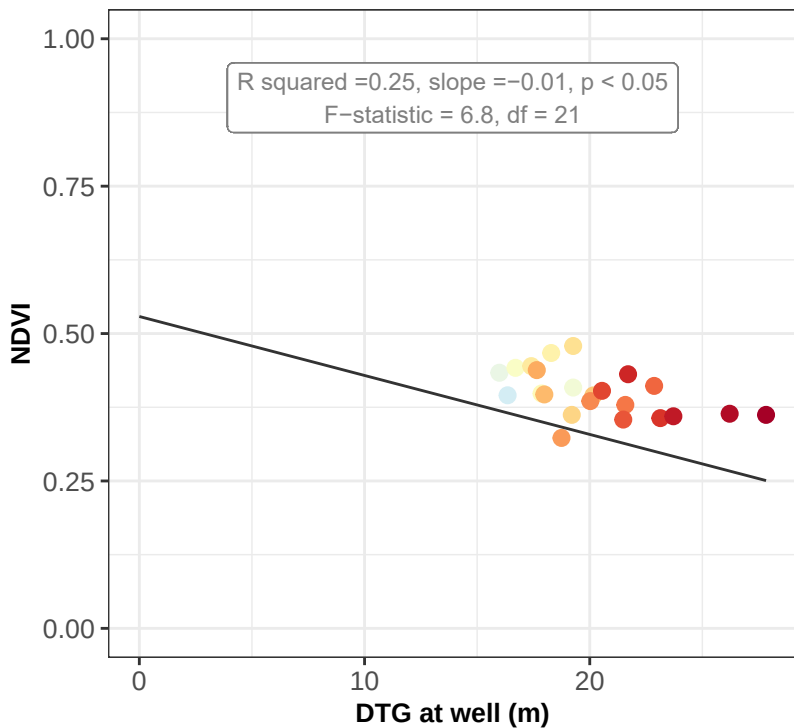
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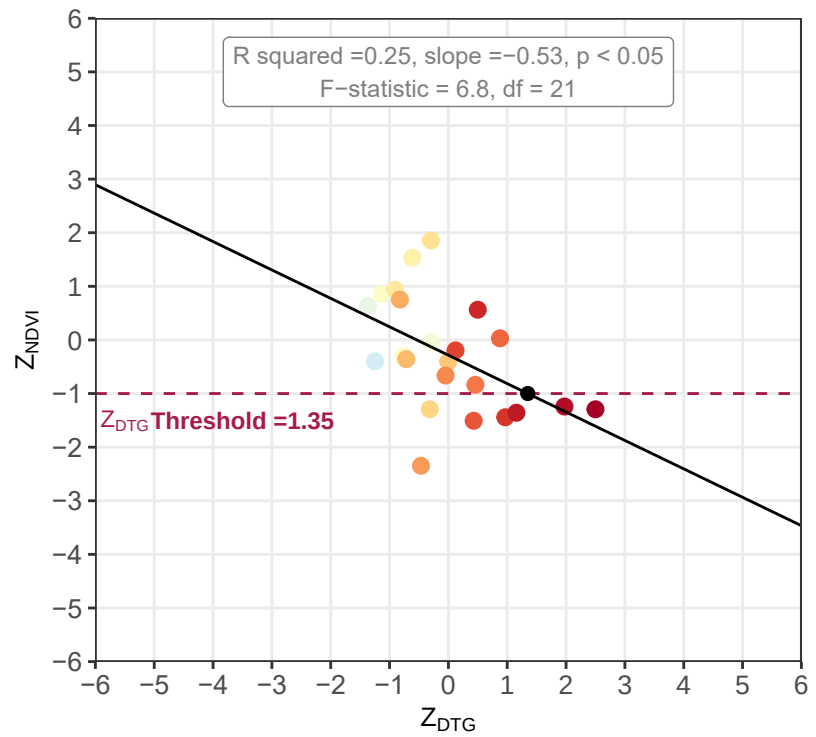
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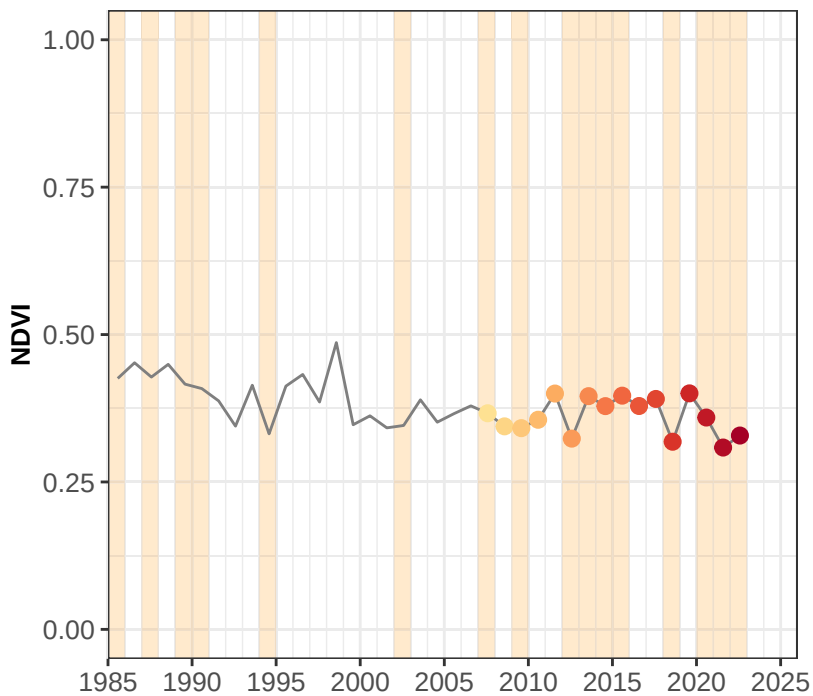


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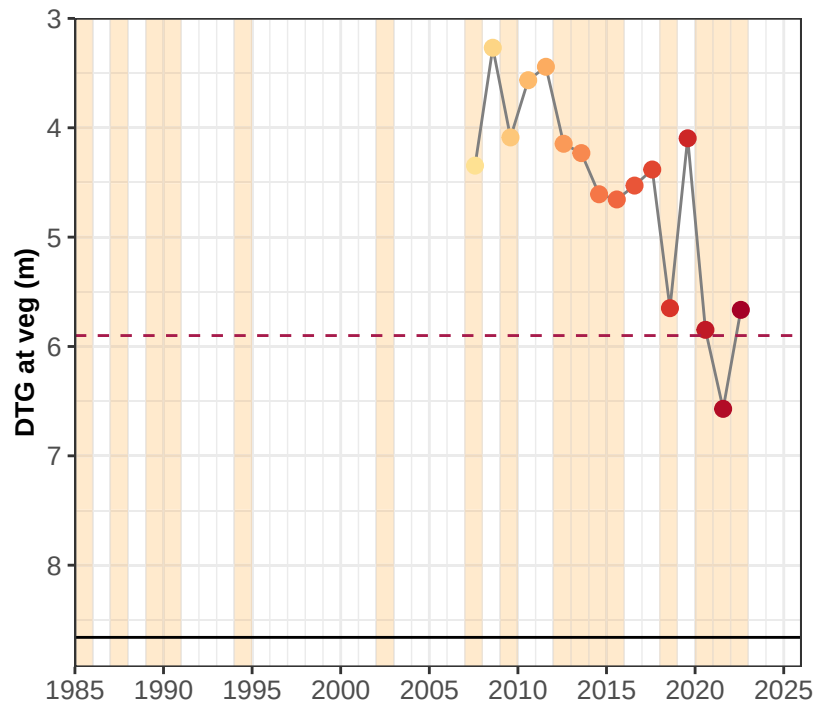


Quercus (gdeID: 133756)

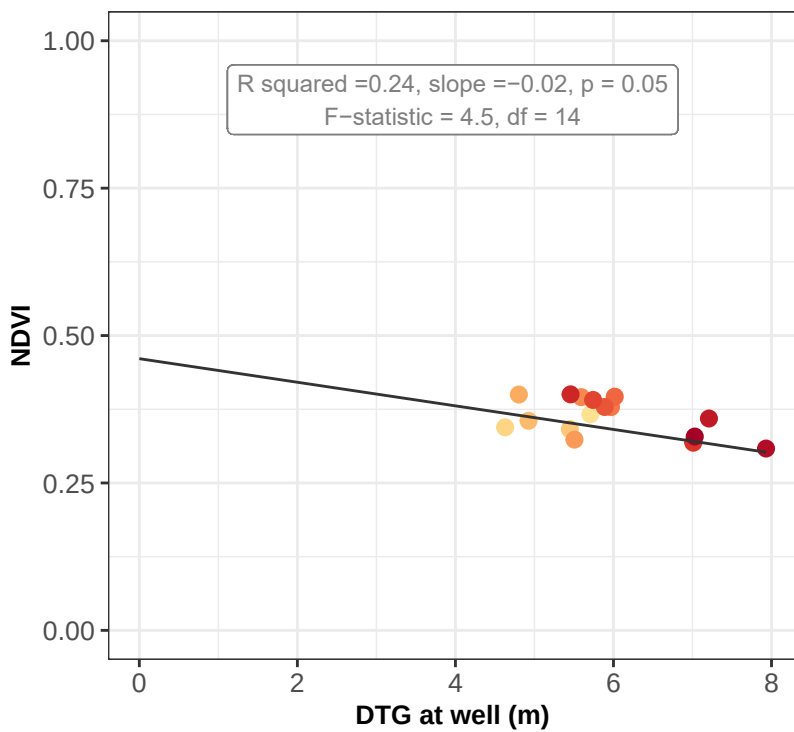
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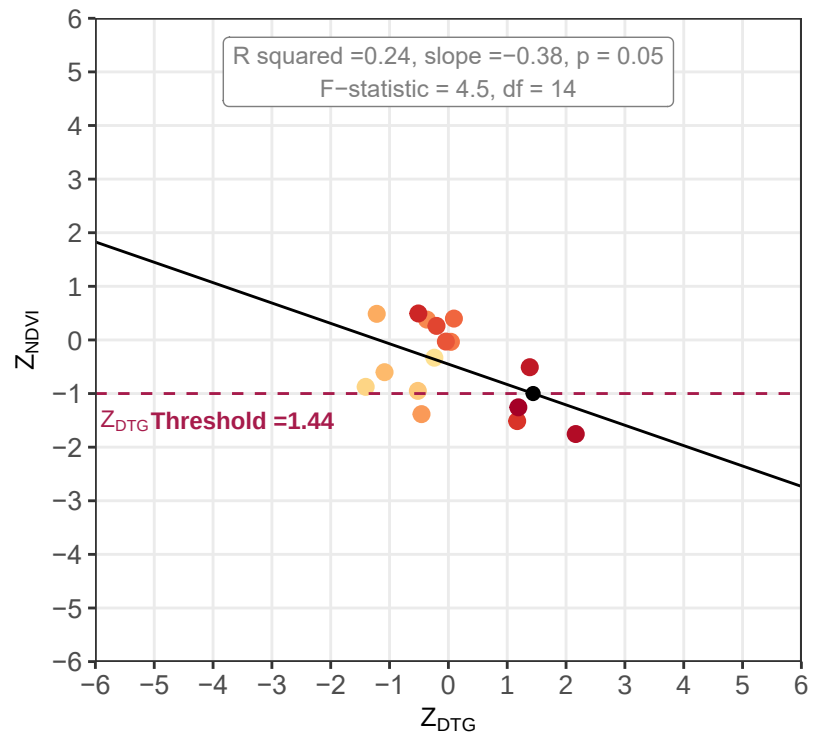
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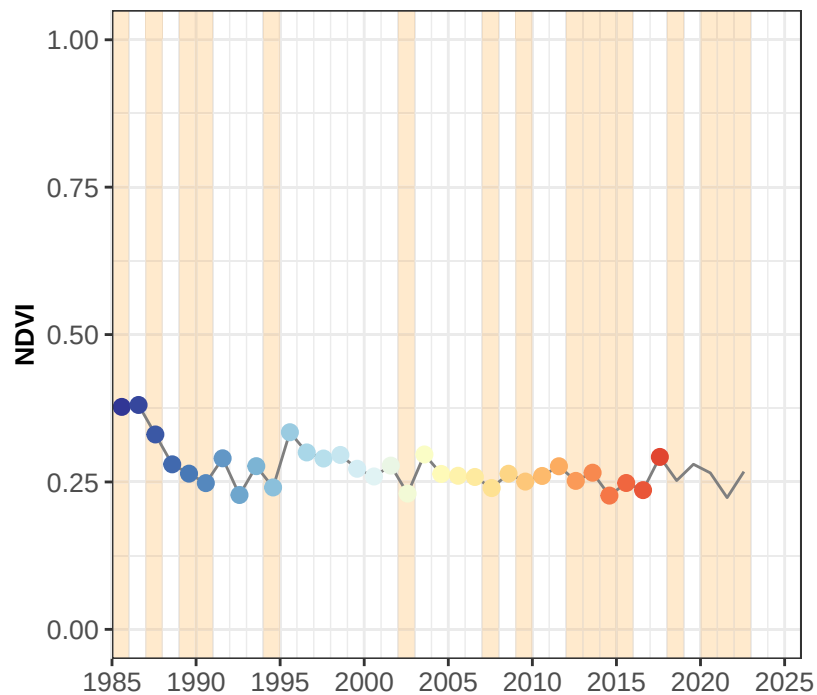


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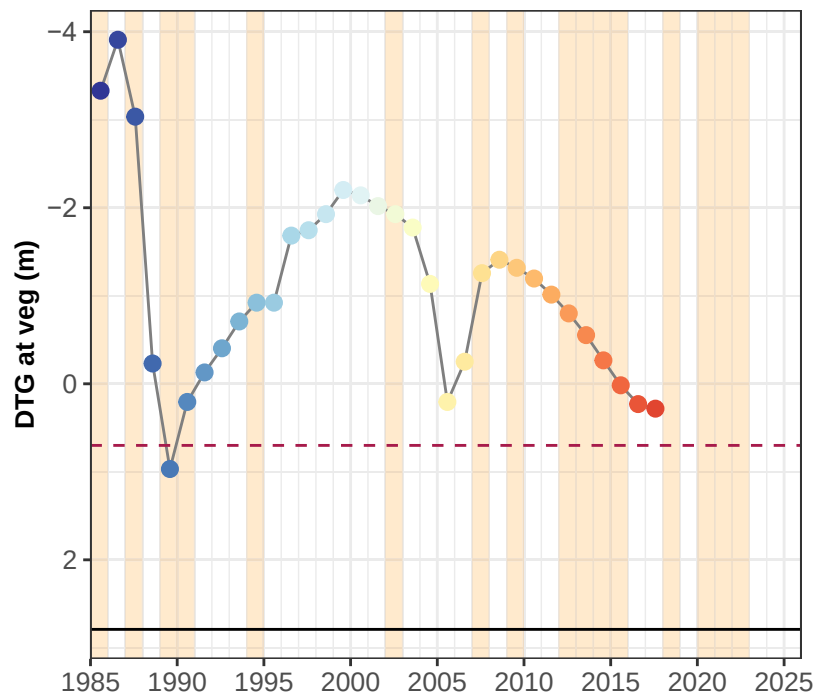


Populus (gdeID: 134172)

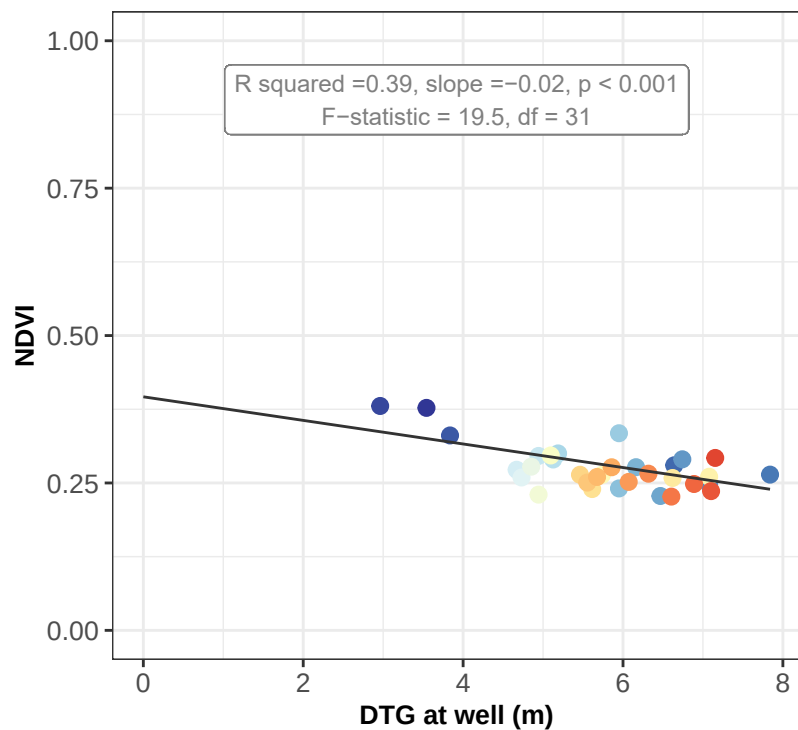
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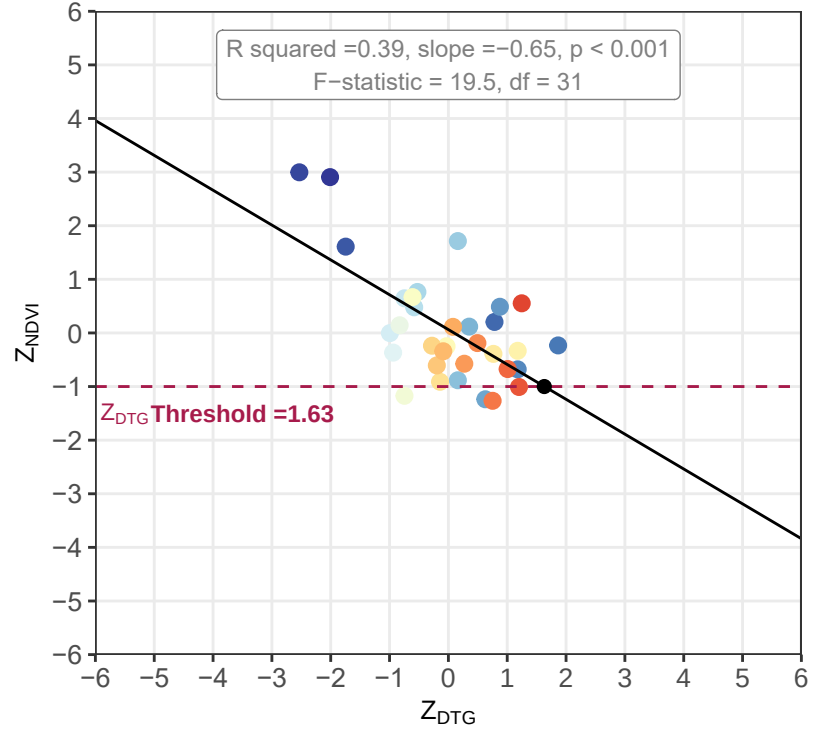
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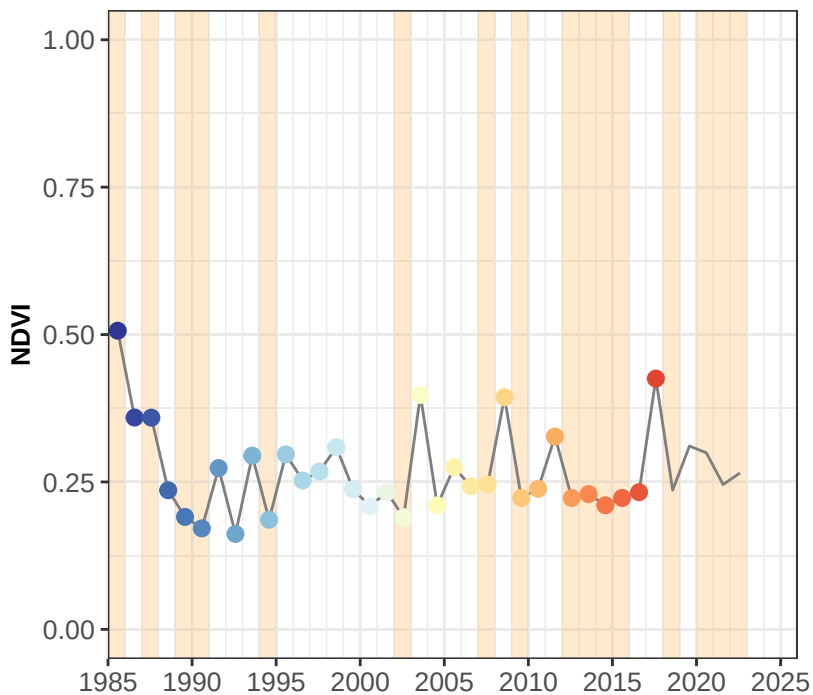


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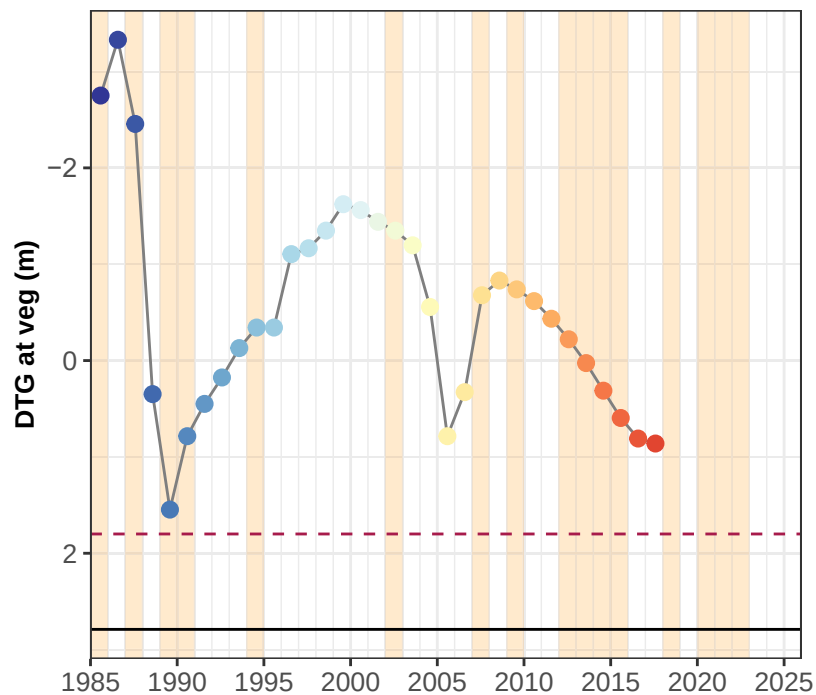


Populus (gdeID: 134184)

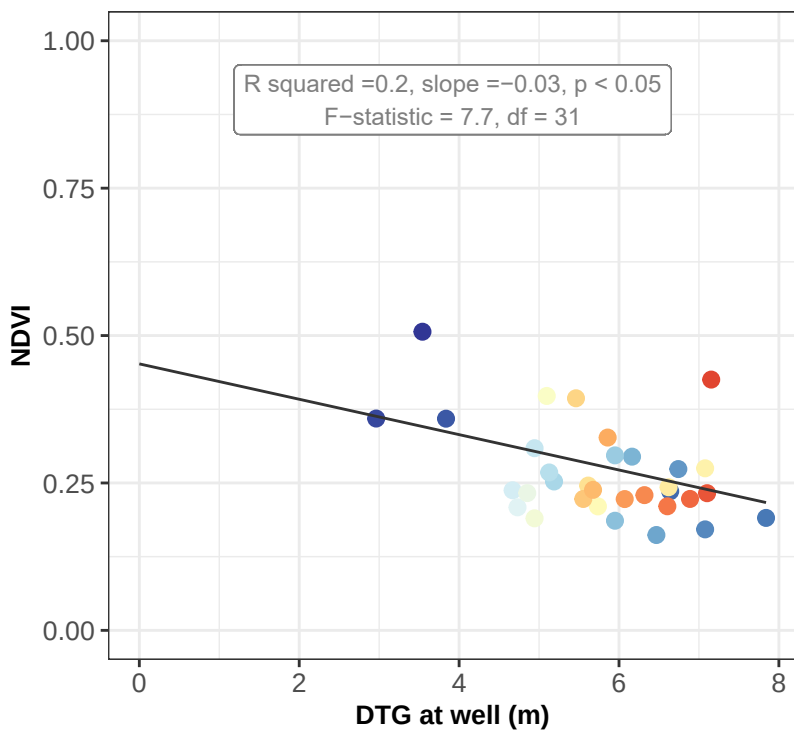
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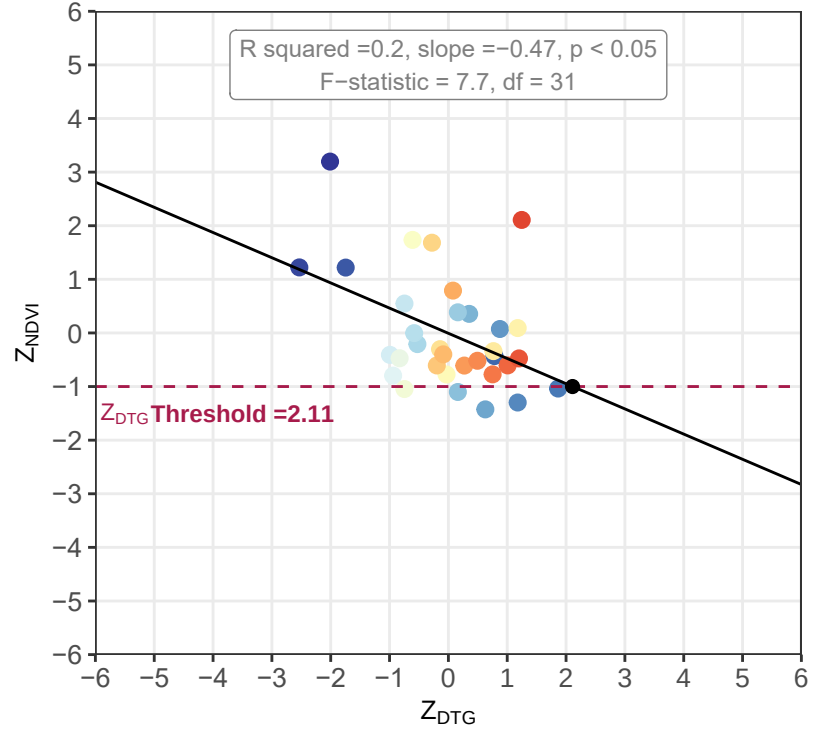
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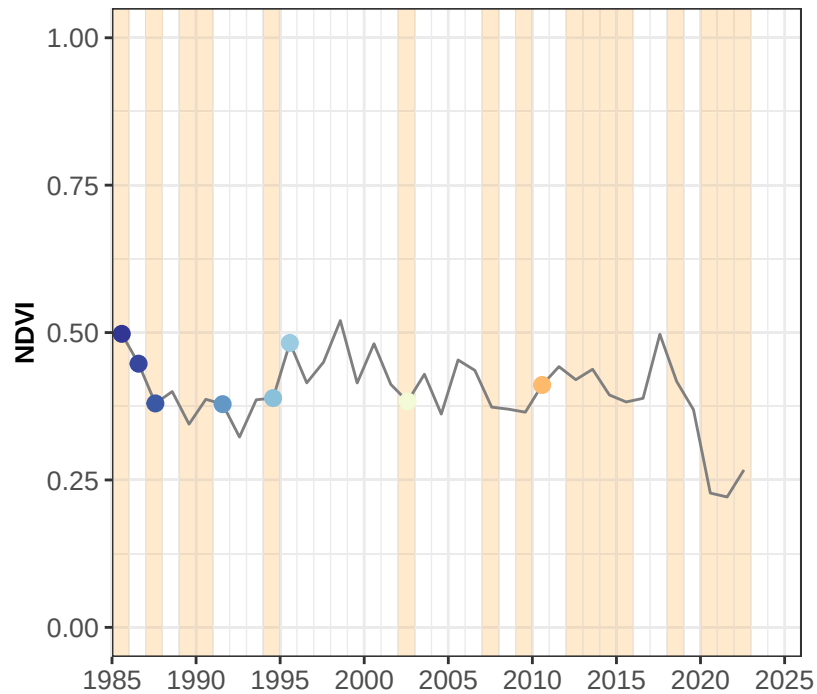


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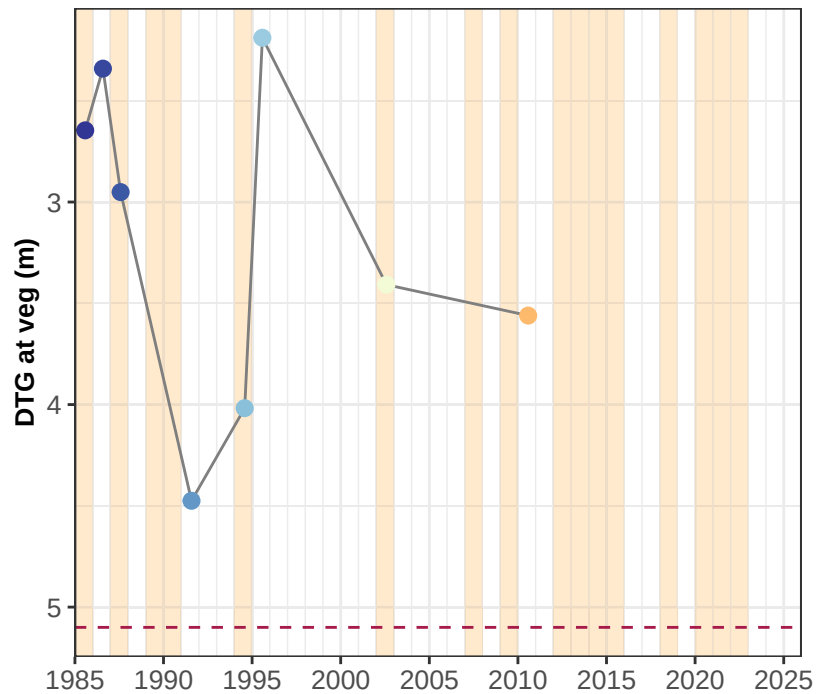


Platanus (gdeID: 136209)

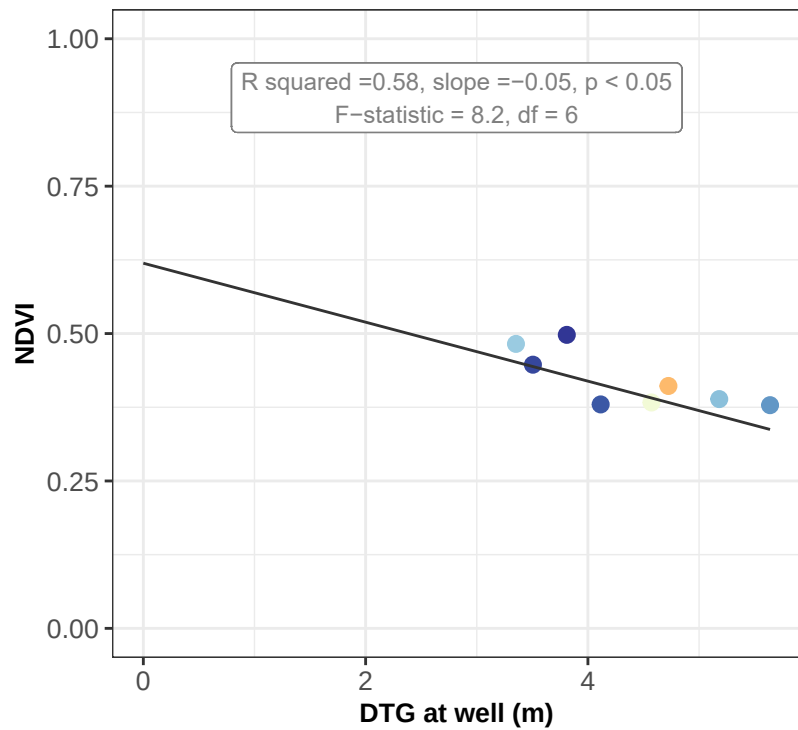
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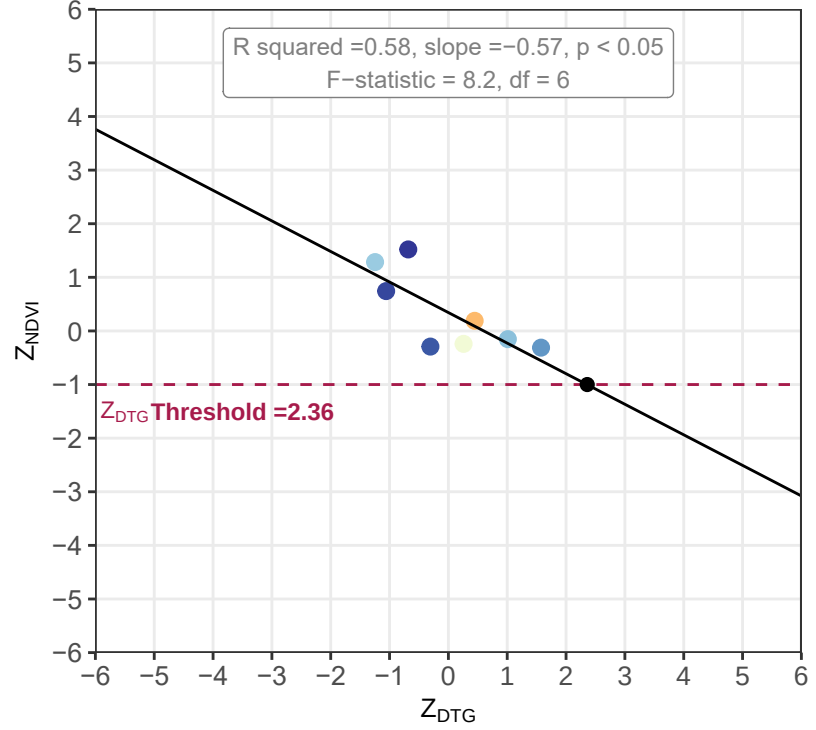
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c

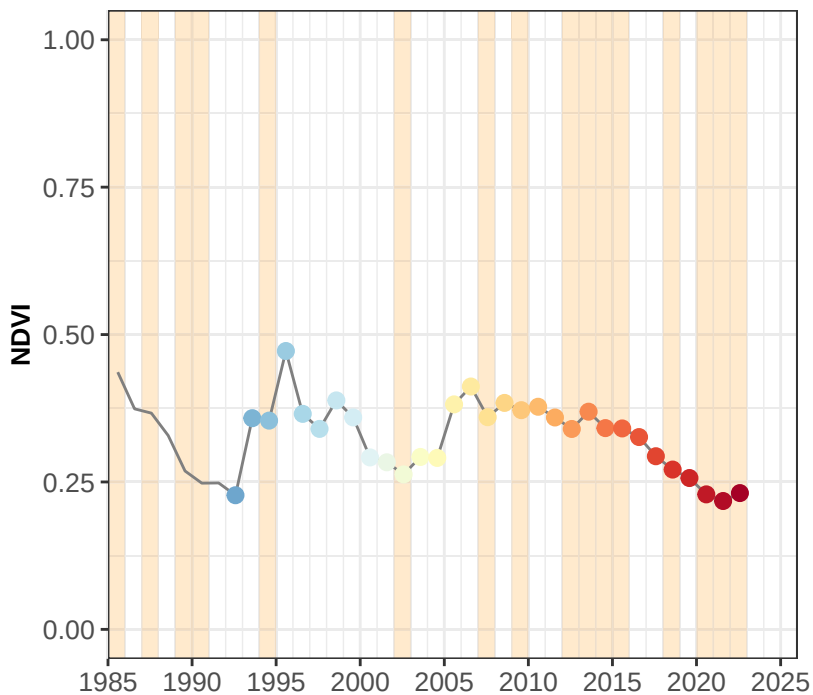


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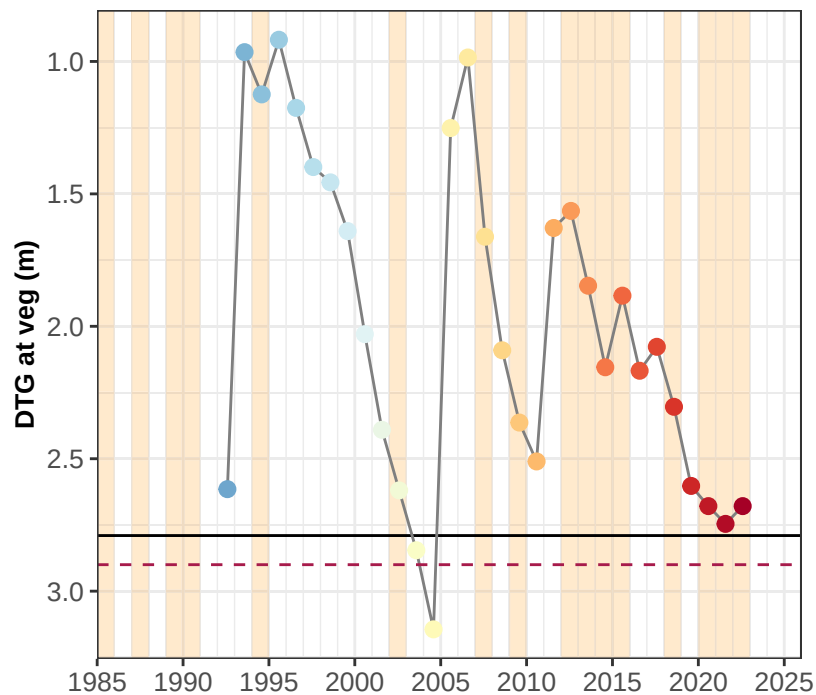


Populus (gdeID: 136366)

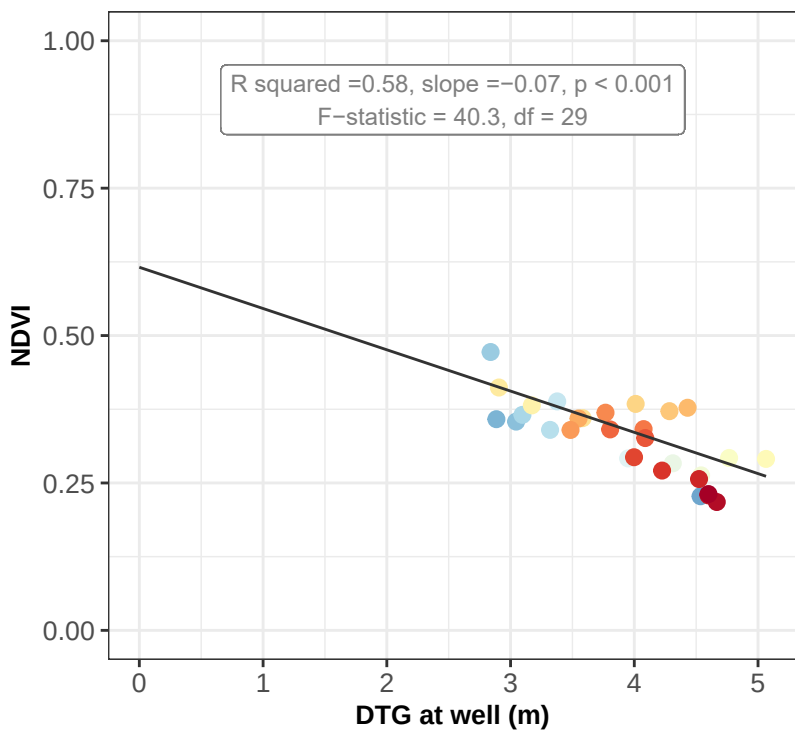
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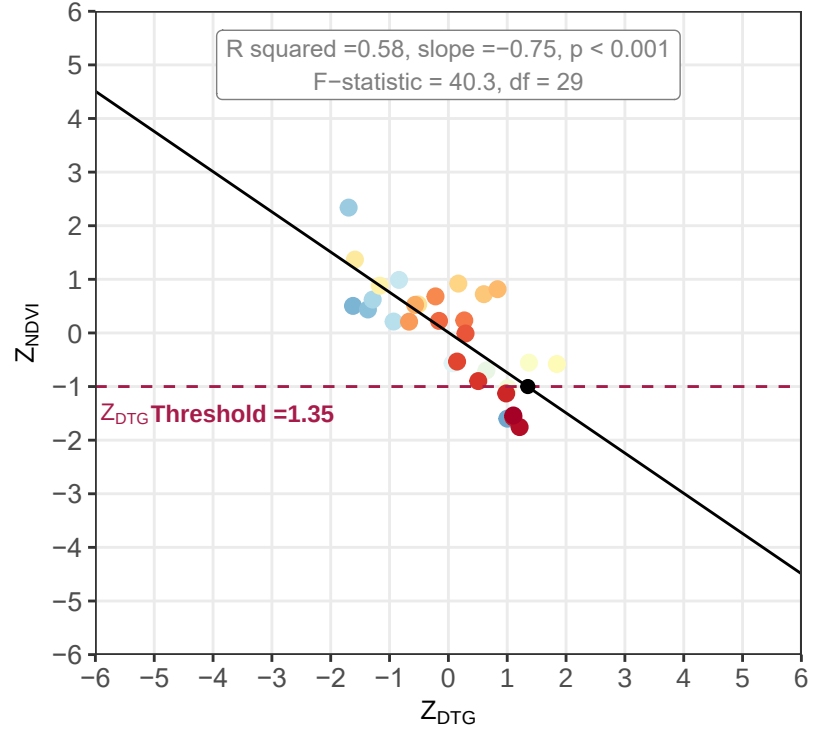
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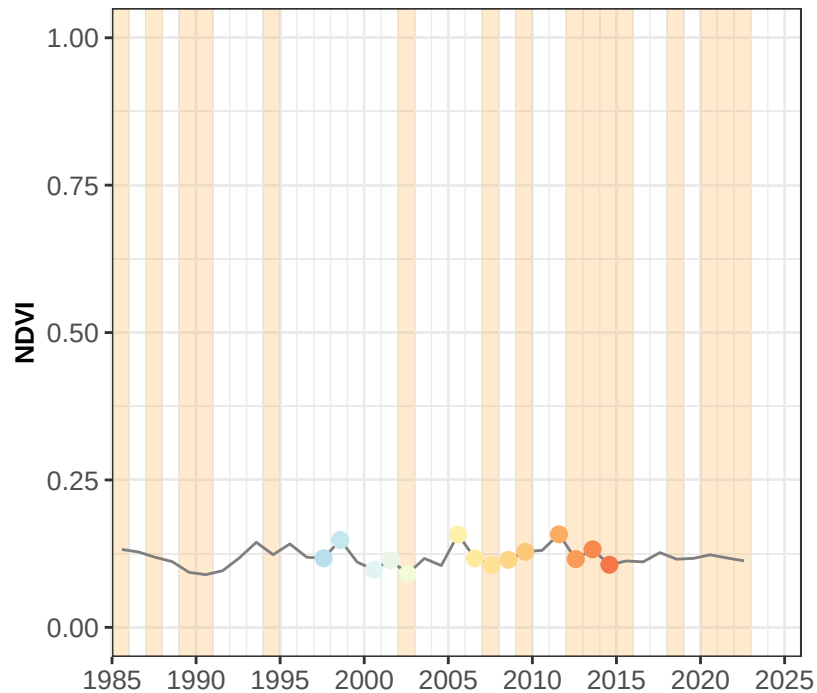


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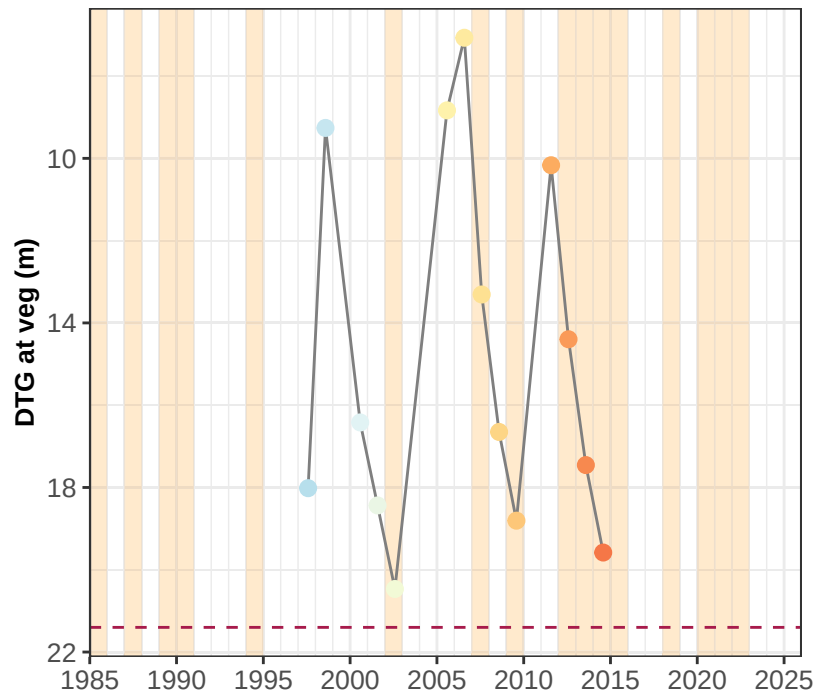


(gdeID: 136992)

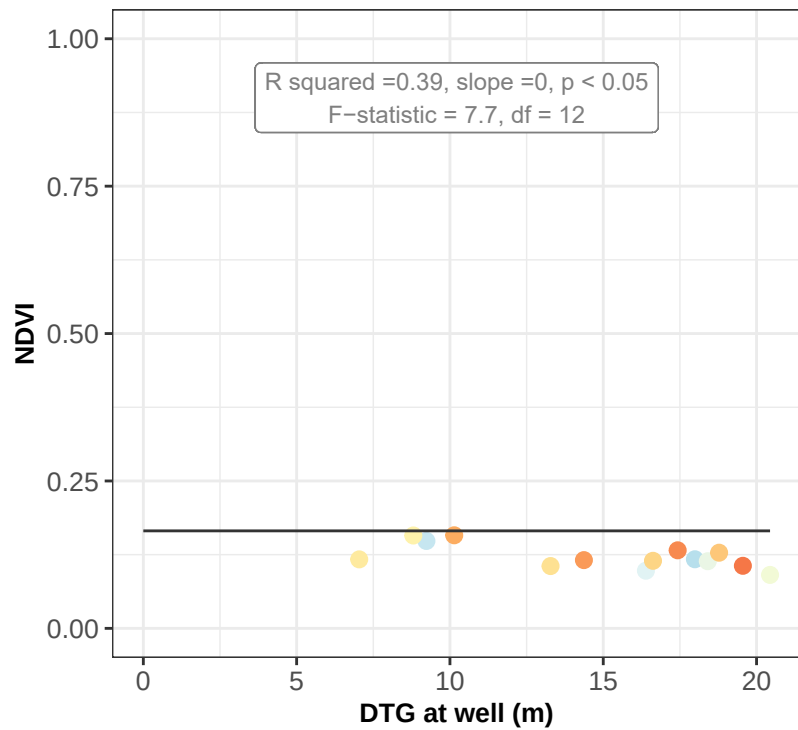
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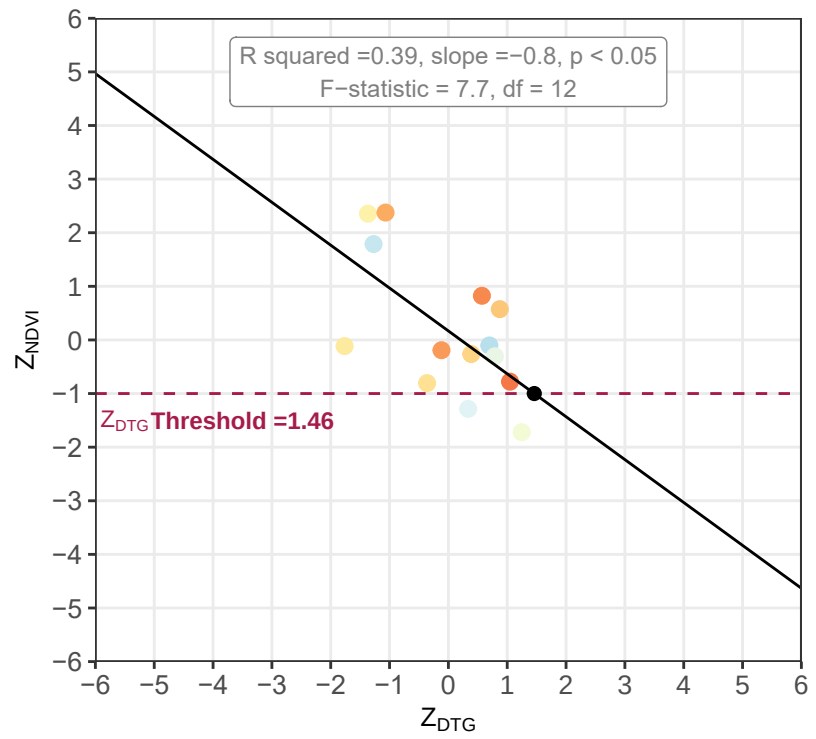
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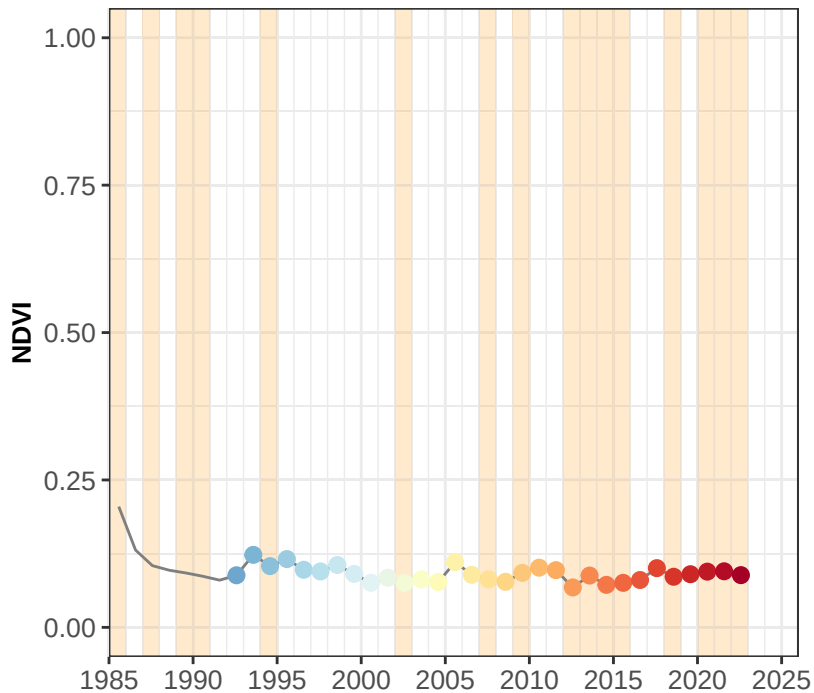


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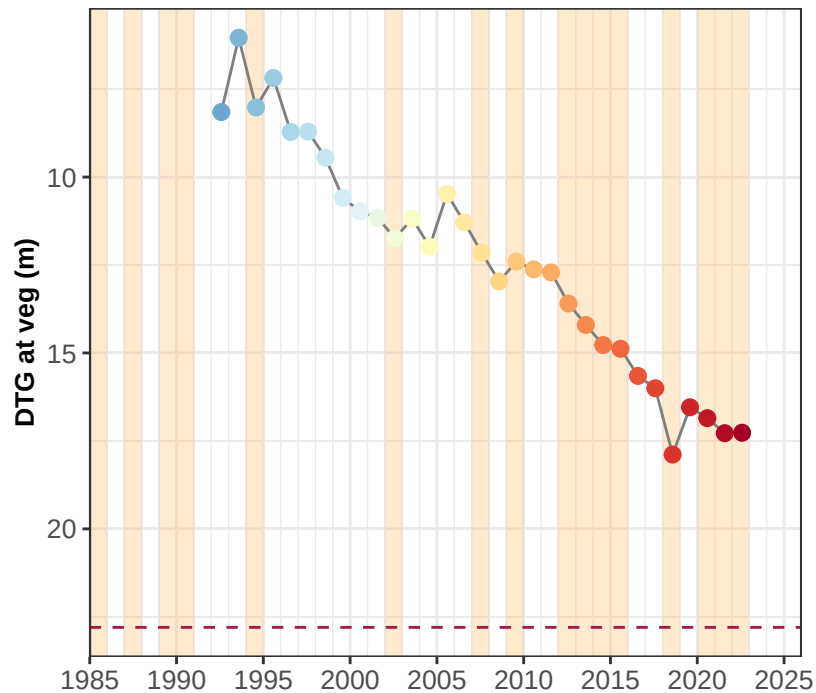


(gdeID: 137036)

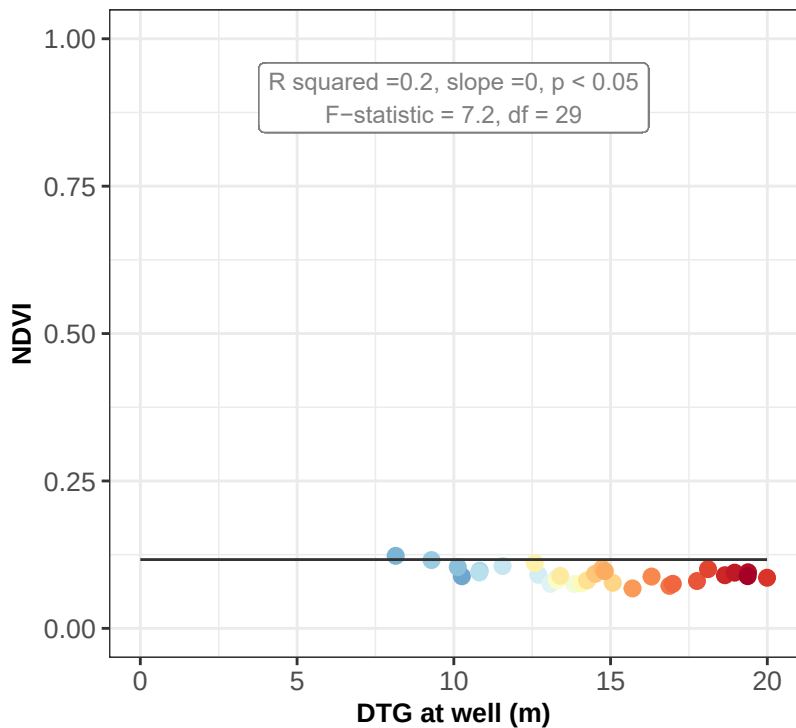
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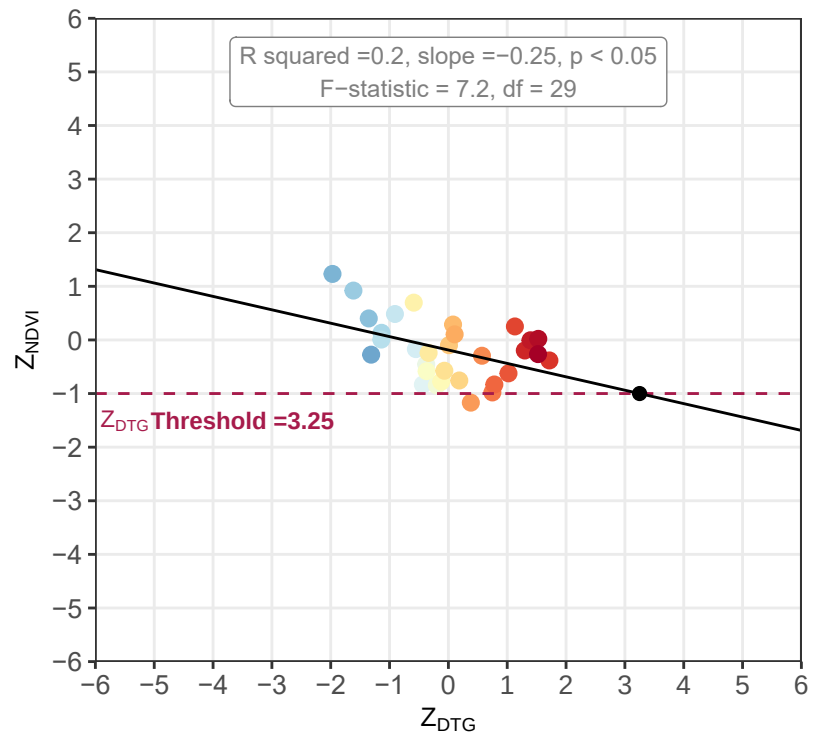
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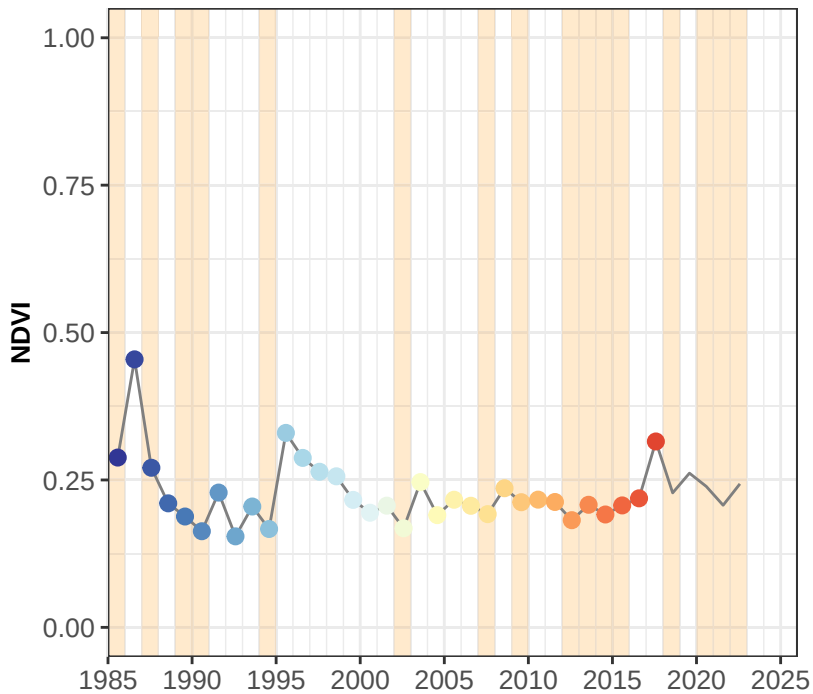


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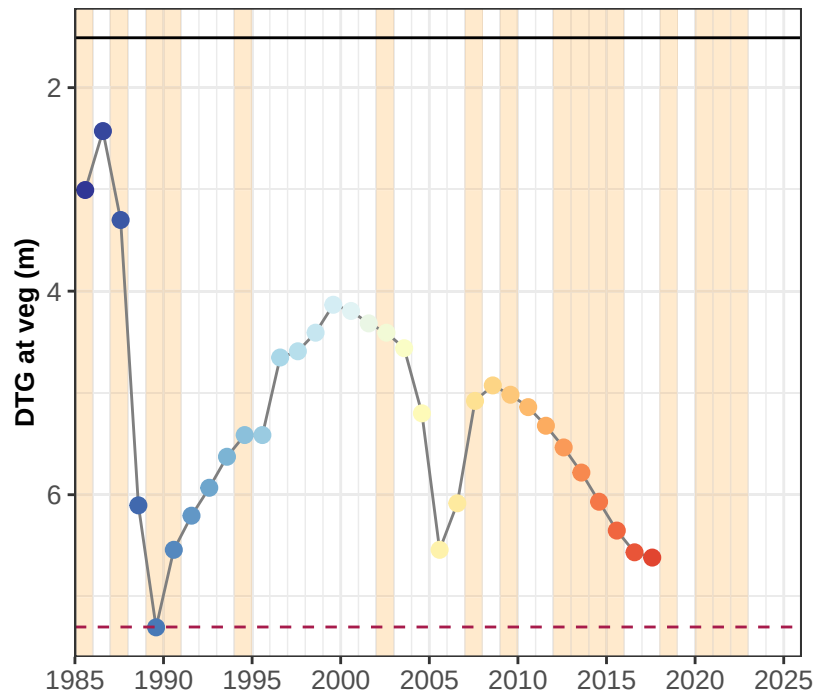


Salix (gdeID: 137477)

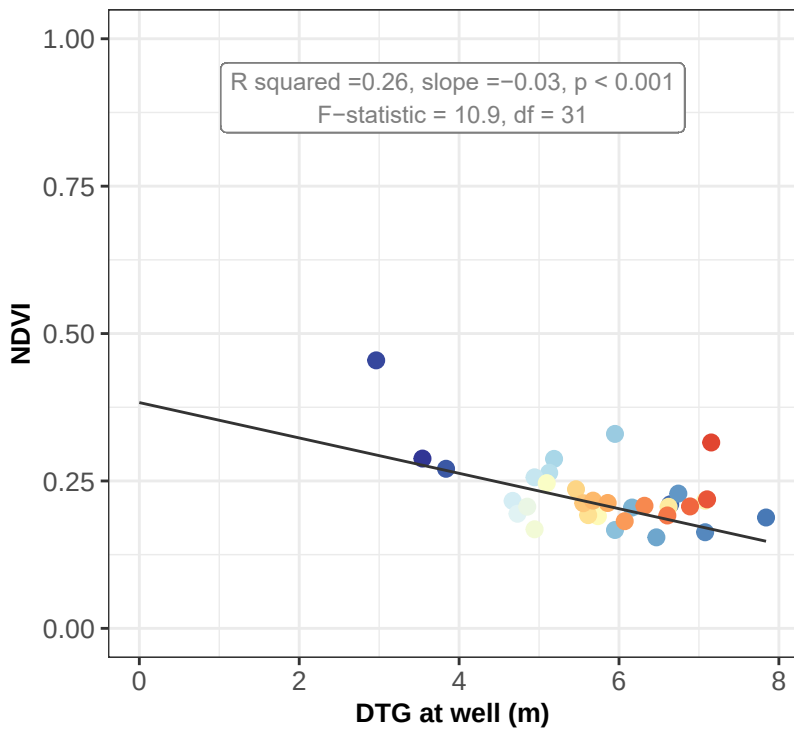
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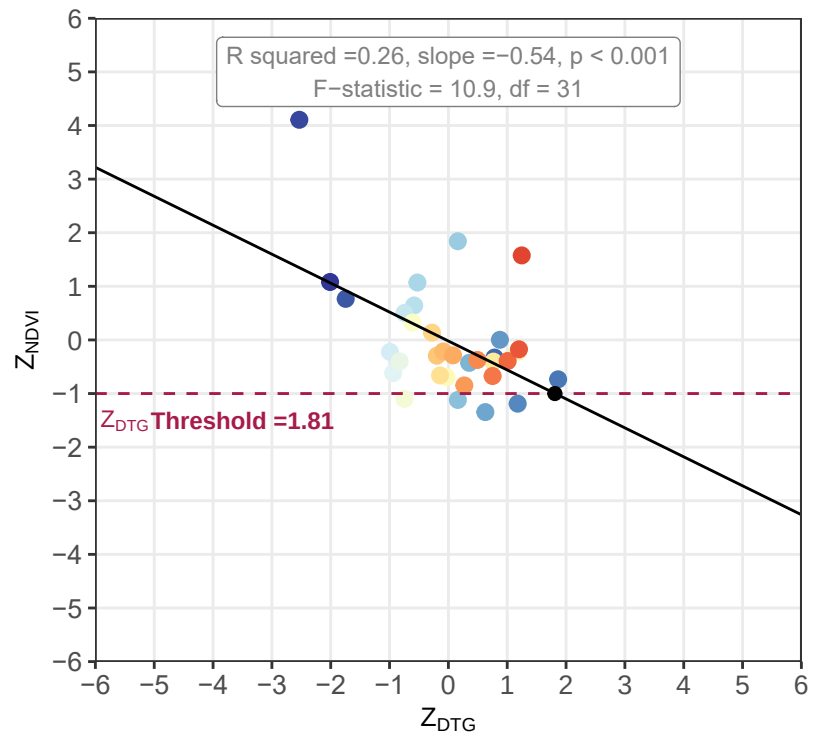
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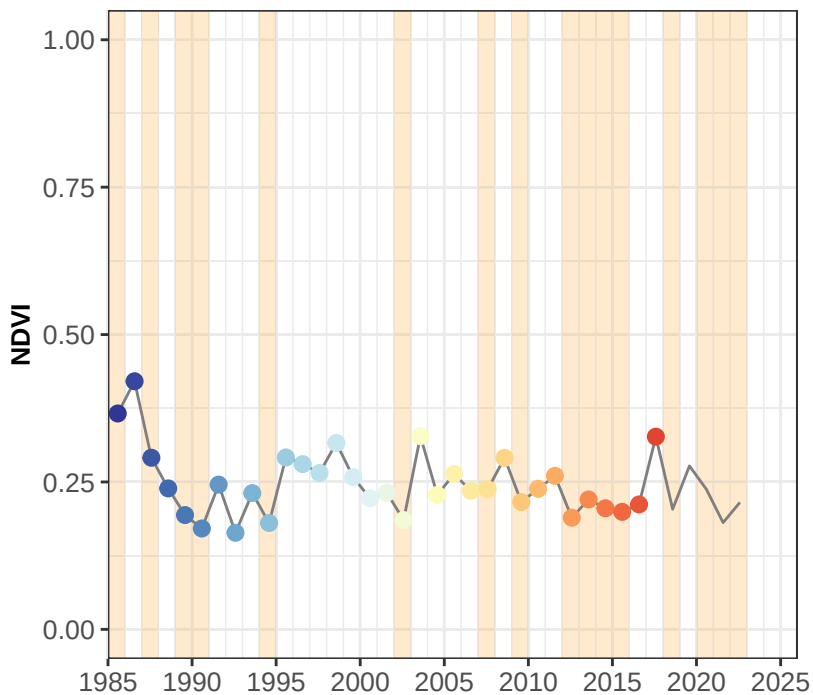


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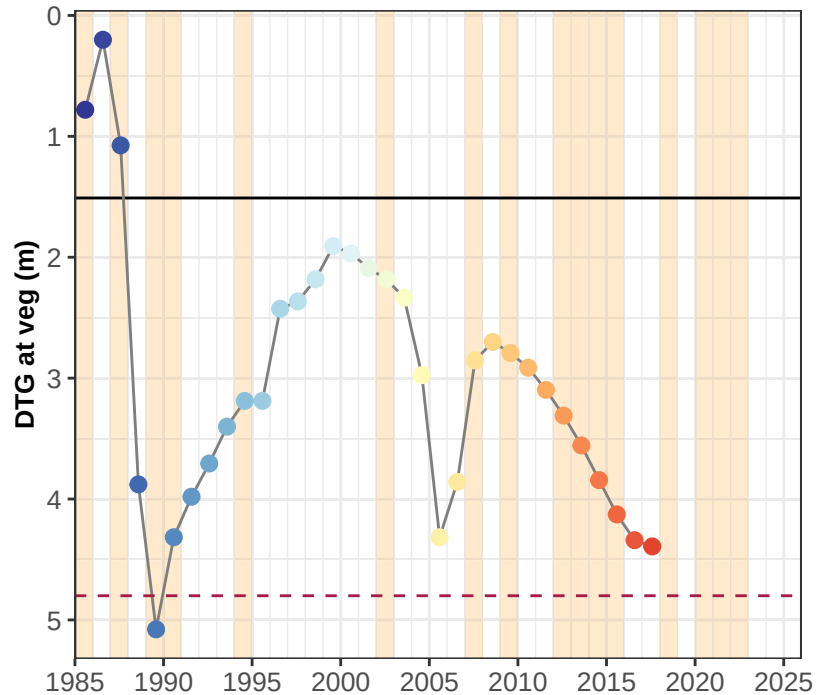


Salix (gdeID: 137480)

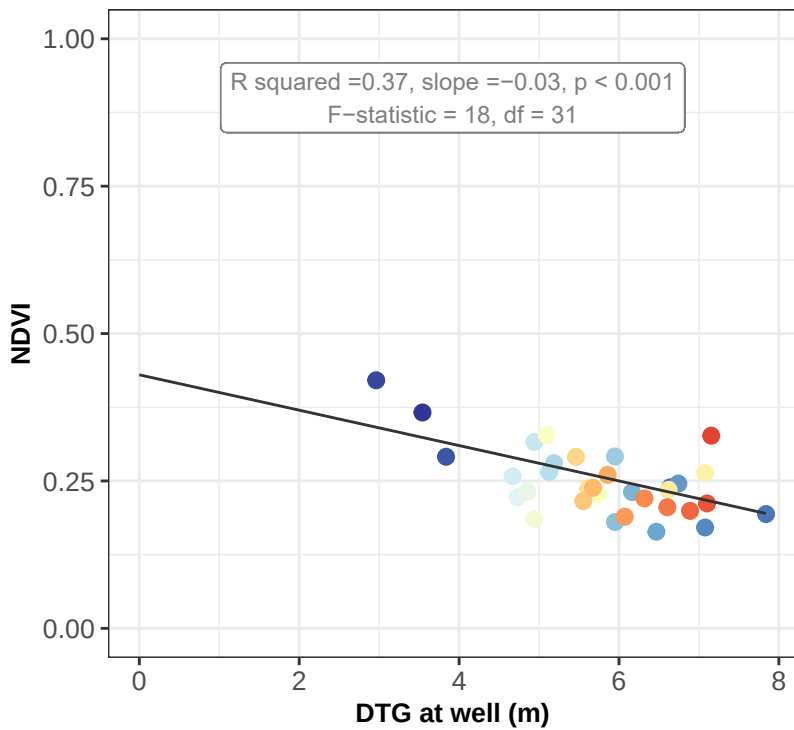
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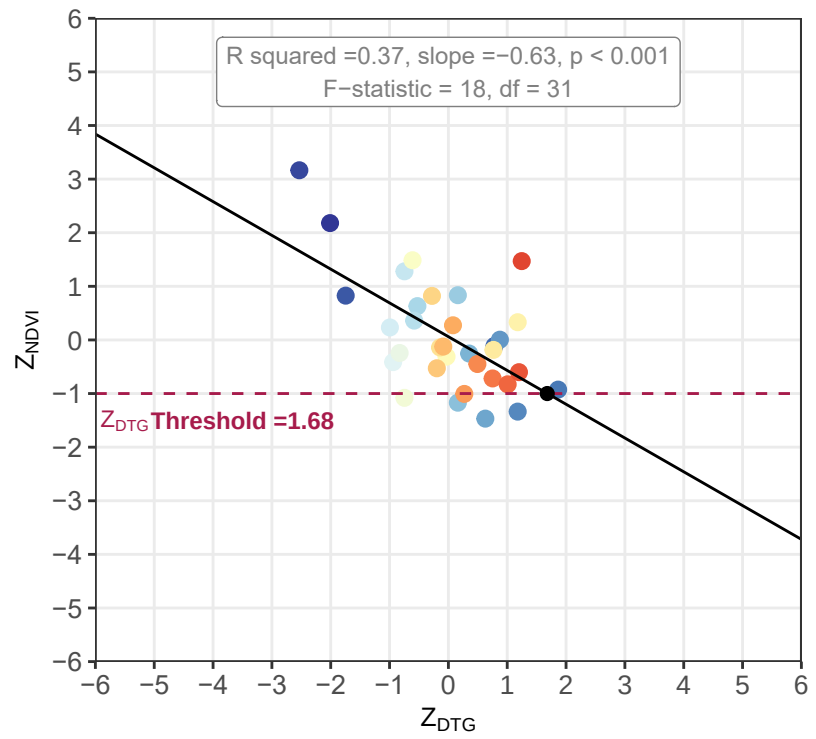
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c

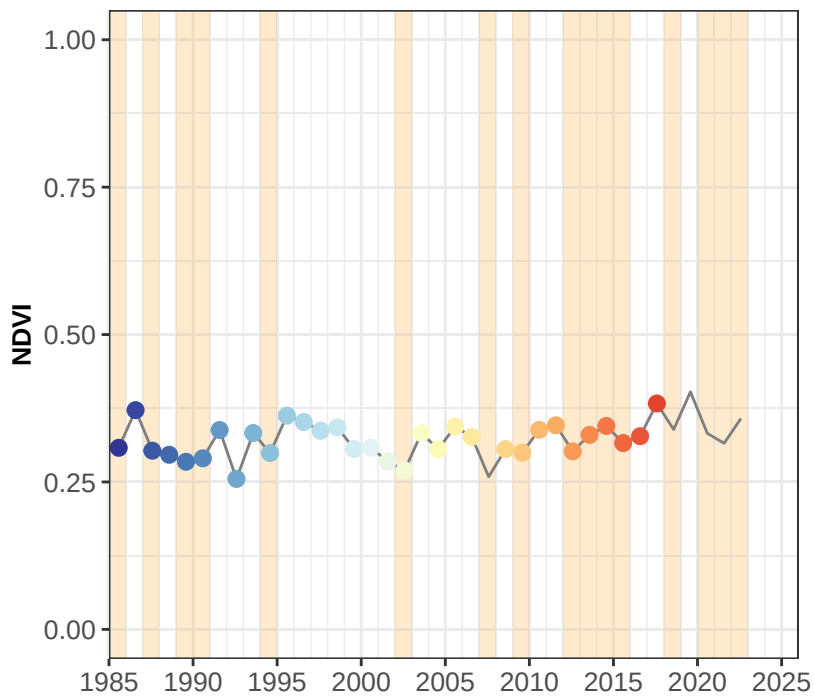


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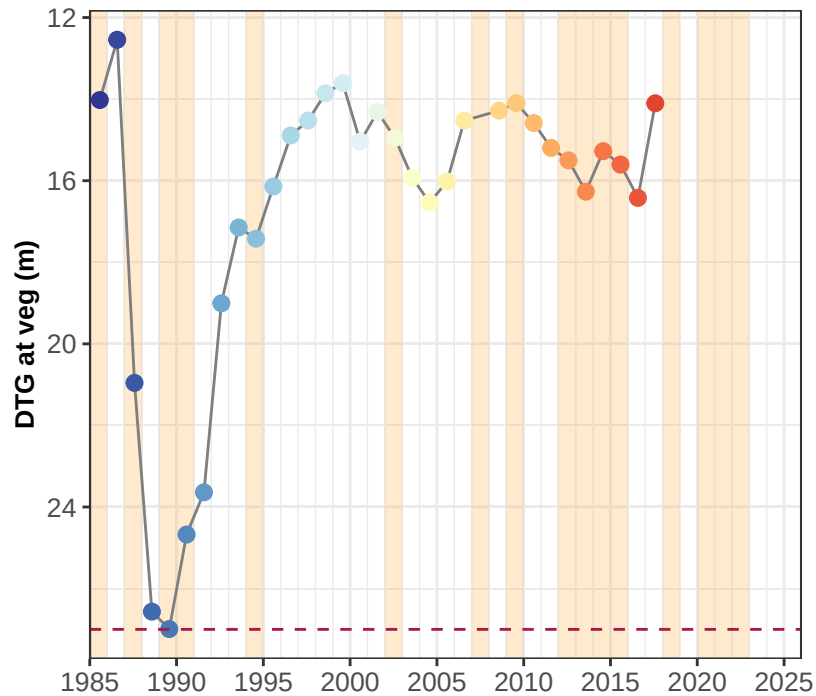


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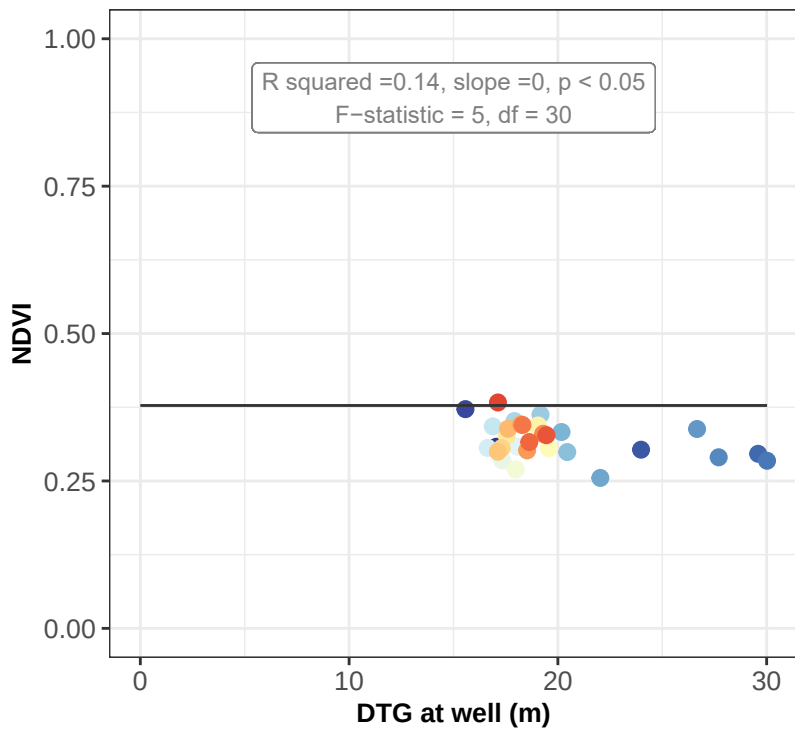
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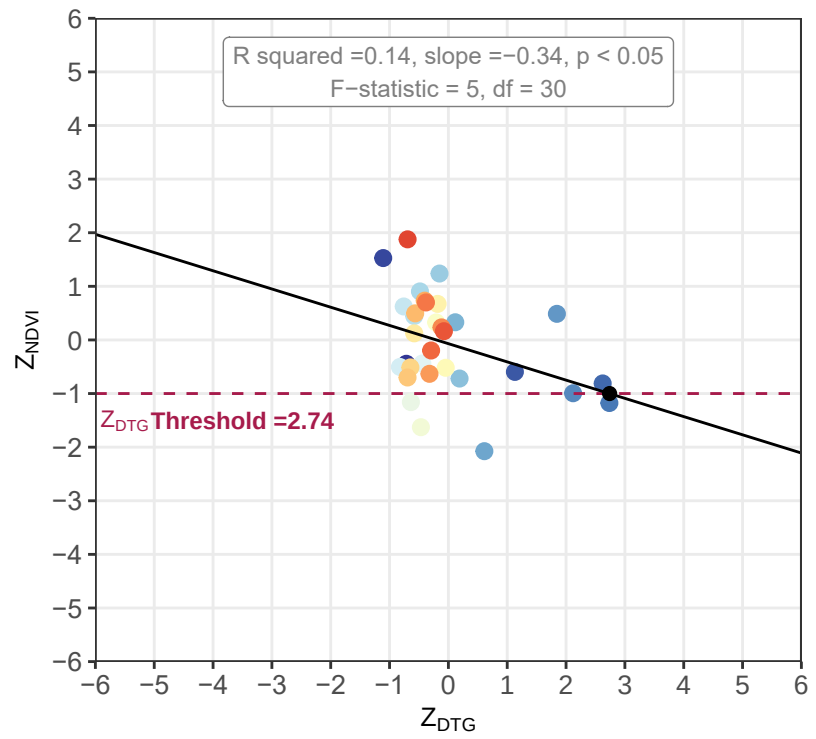
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c

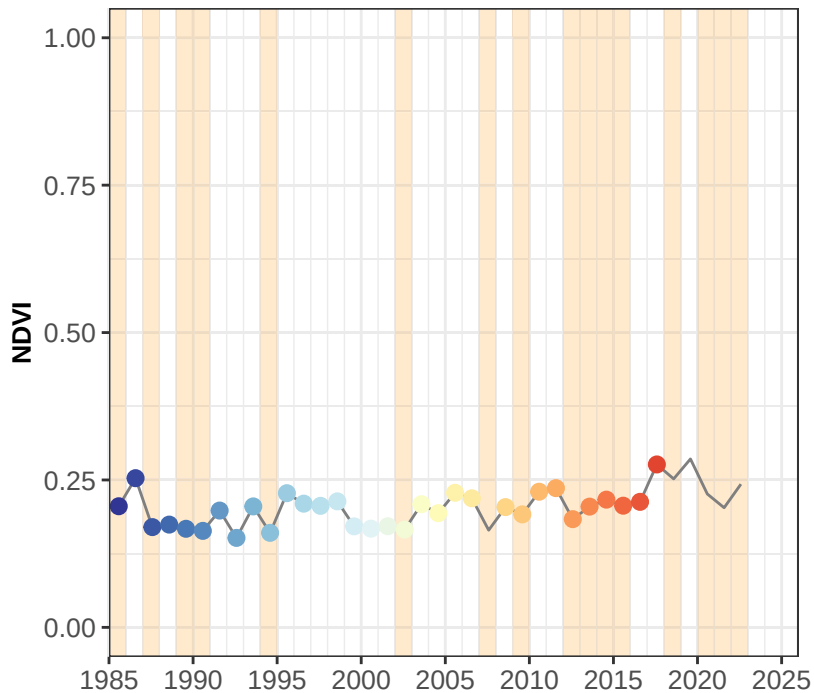


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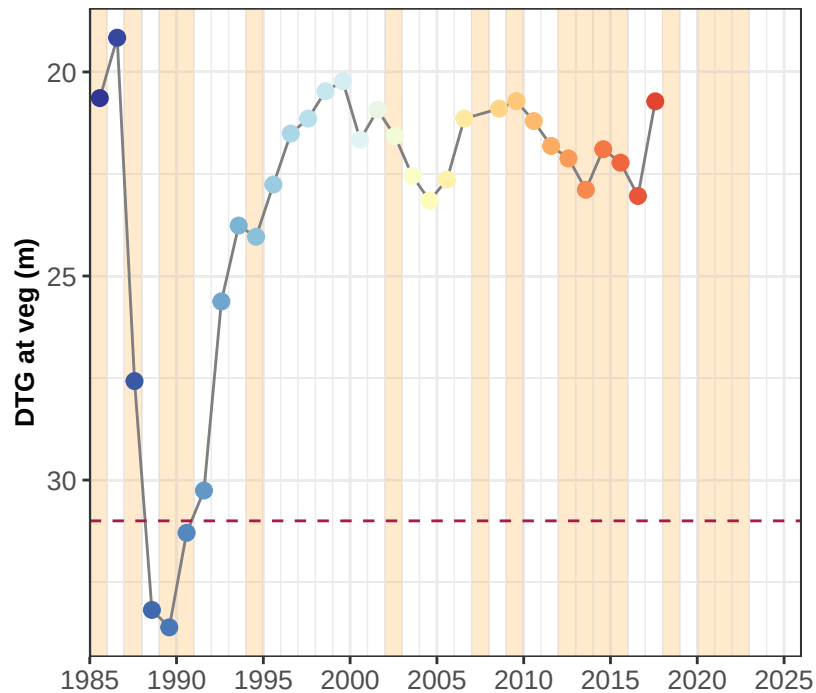


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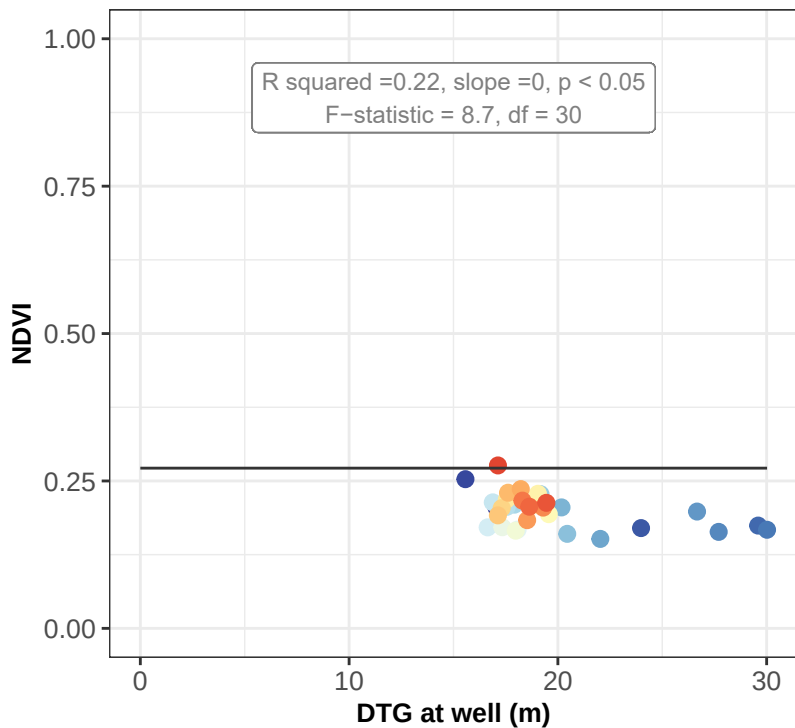
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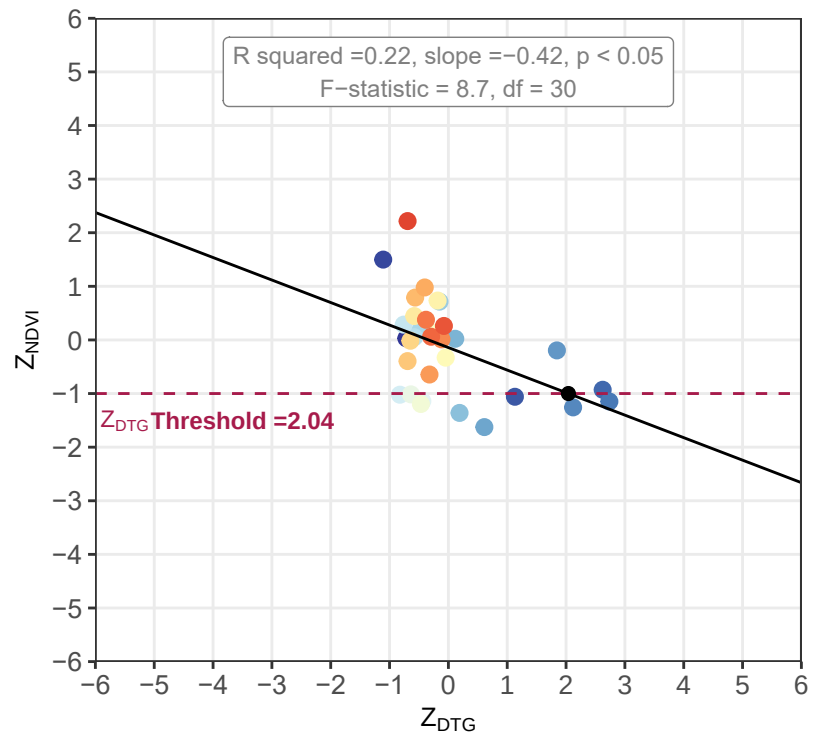
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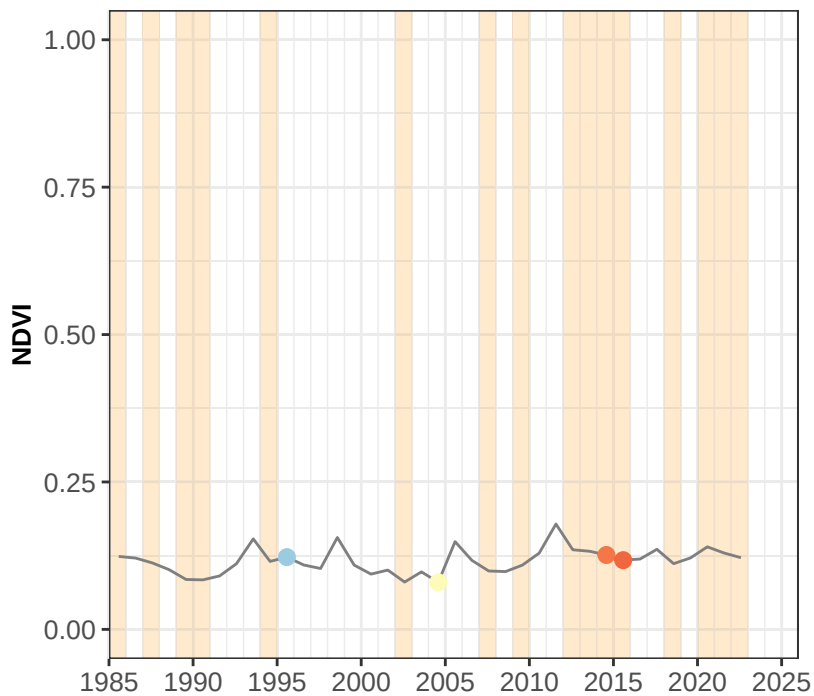


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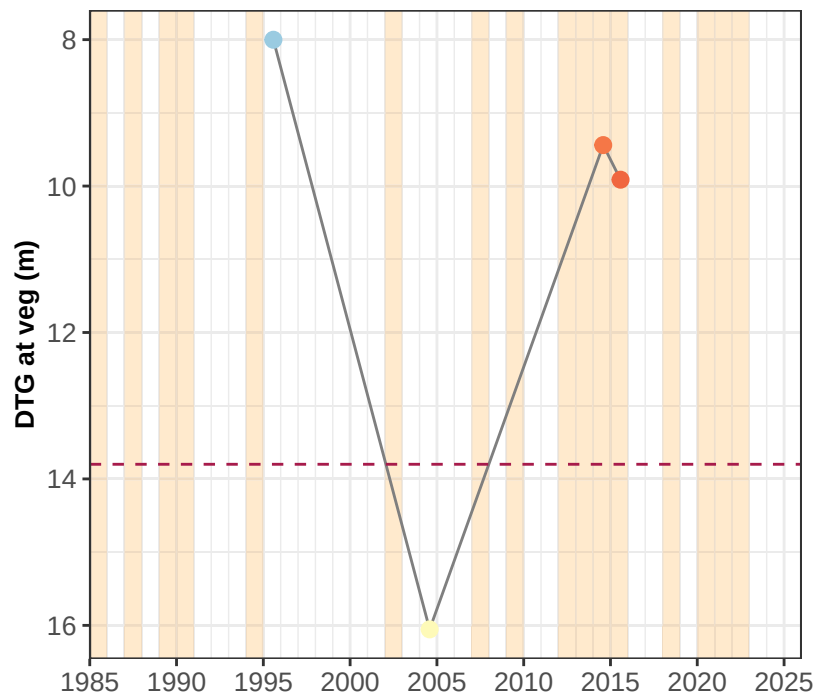


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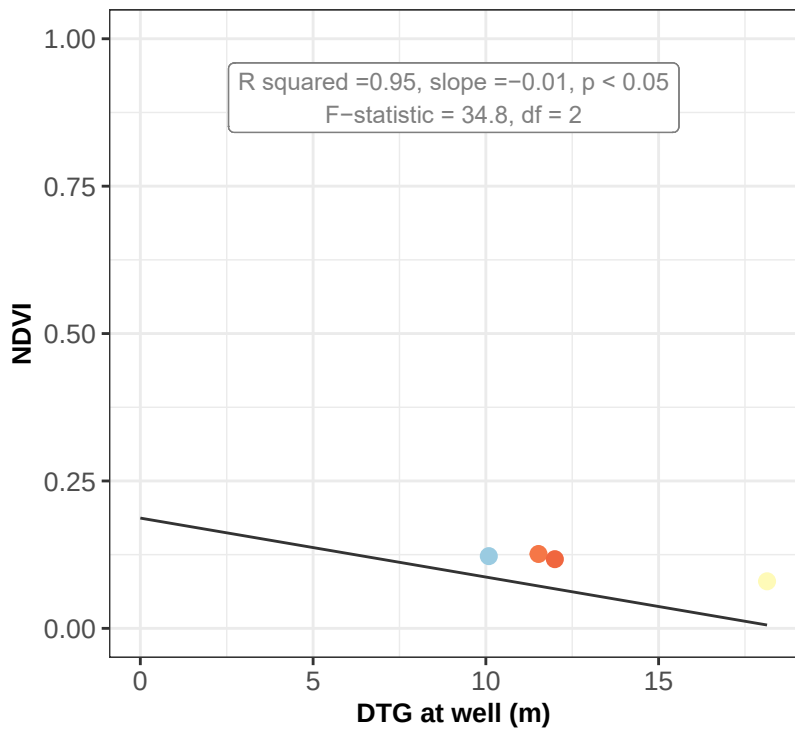
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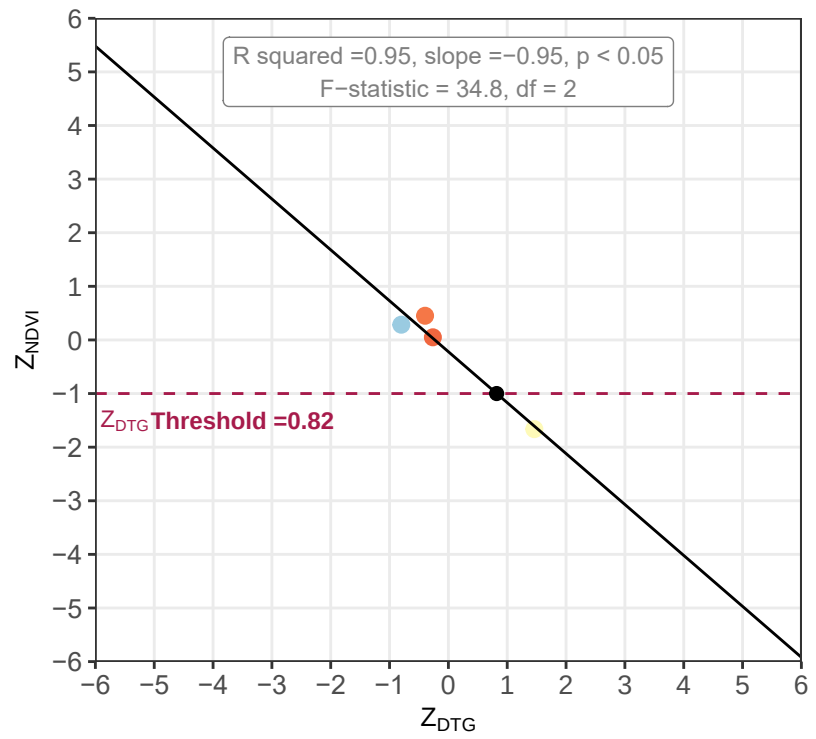
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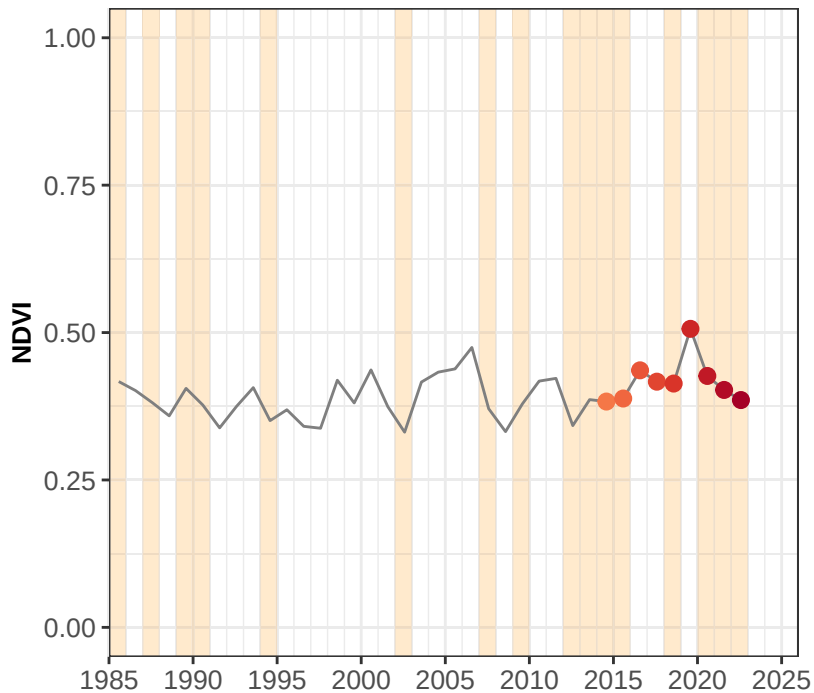


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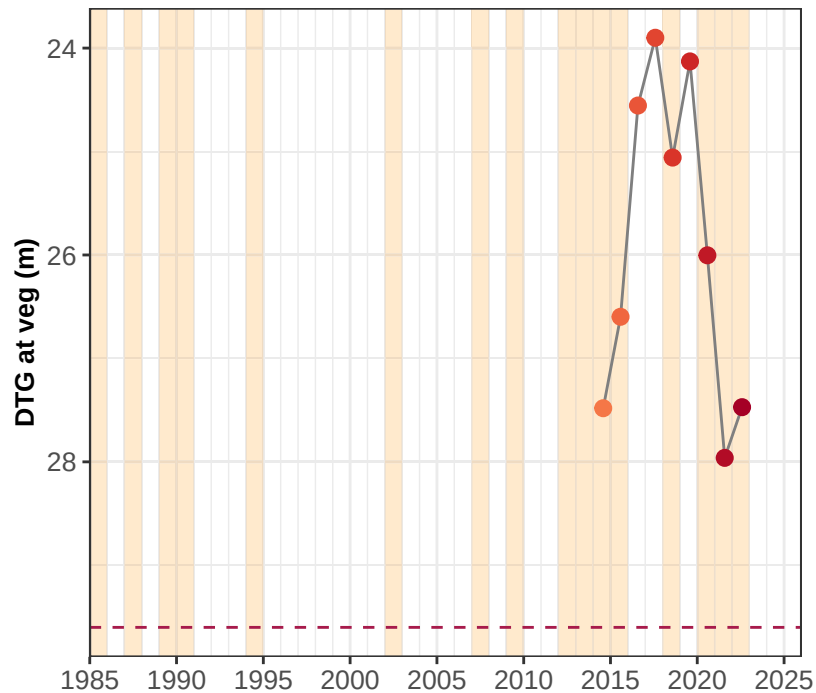


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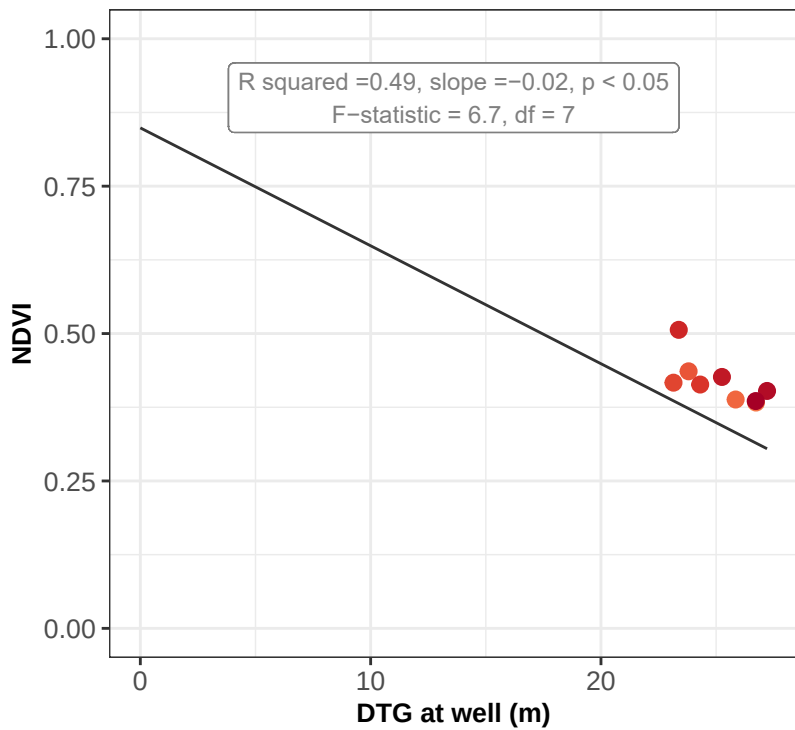
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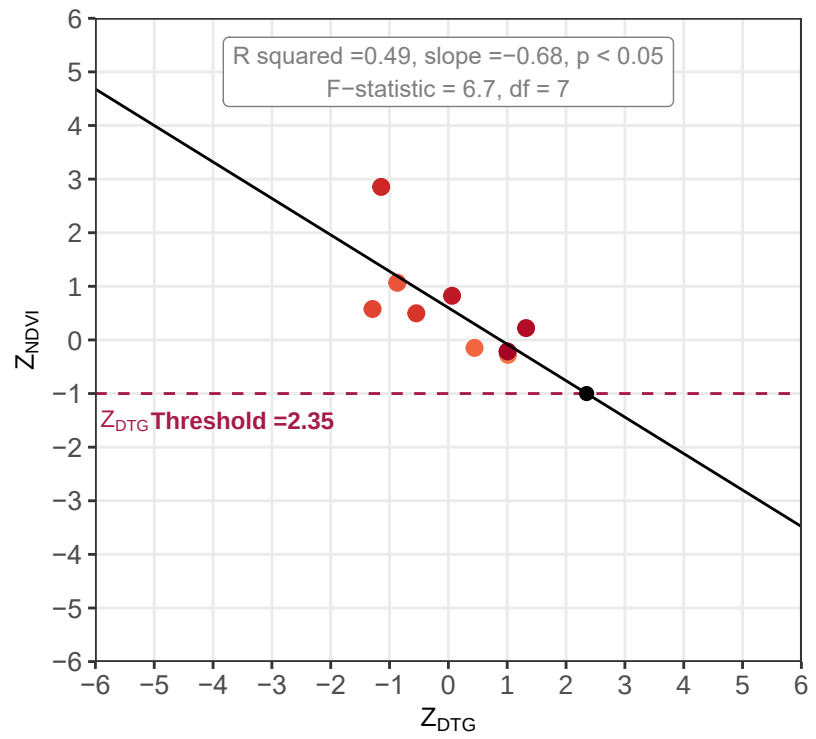
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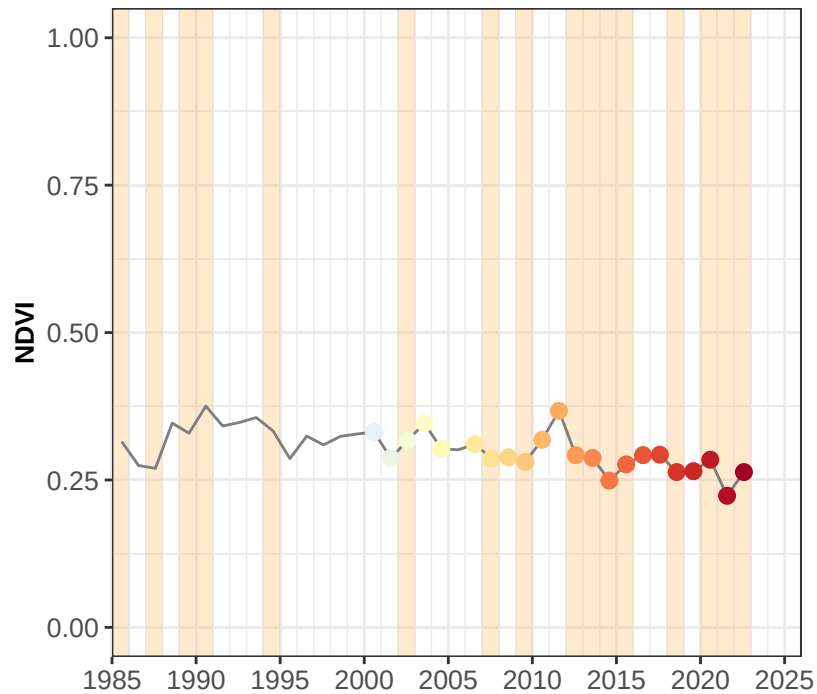


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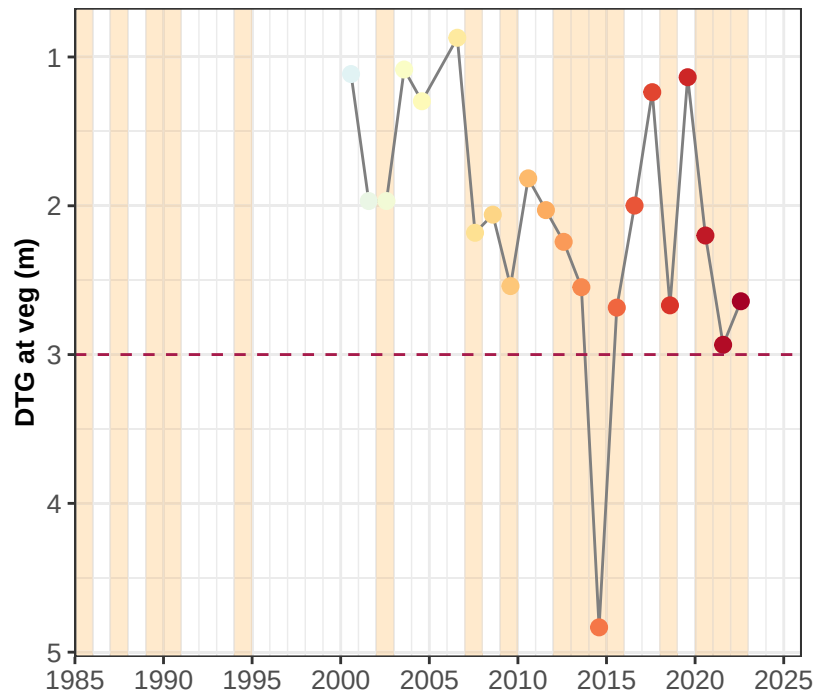


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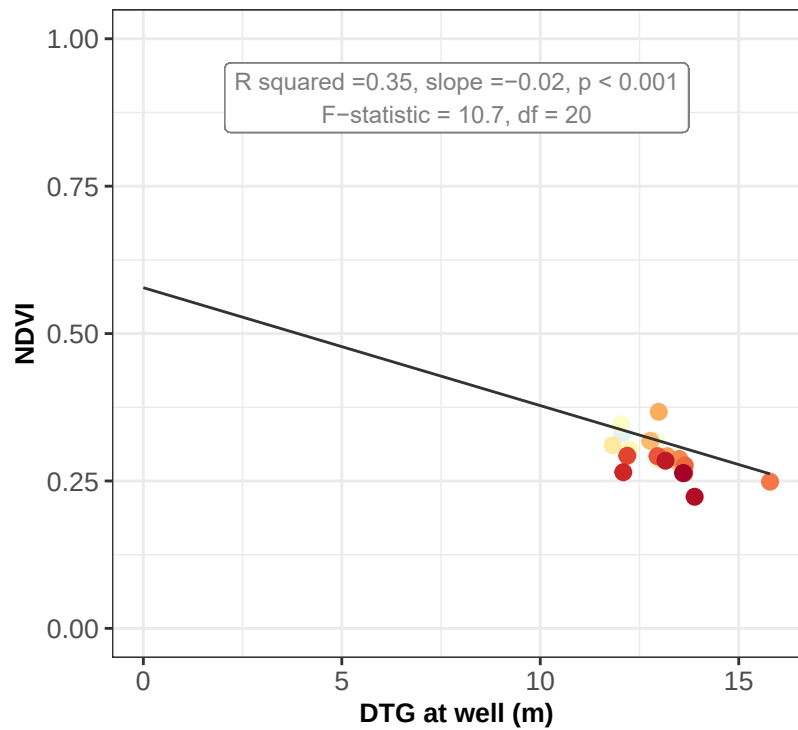
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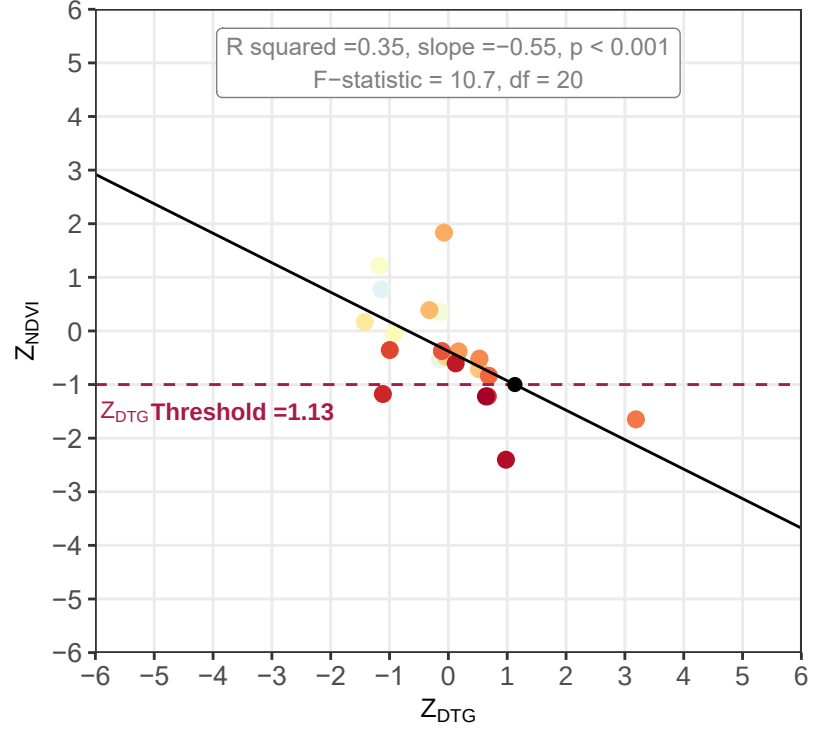
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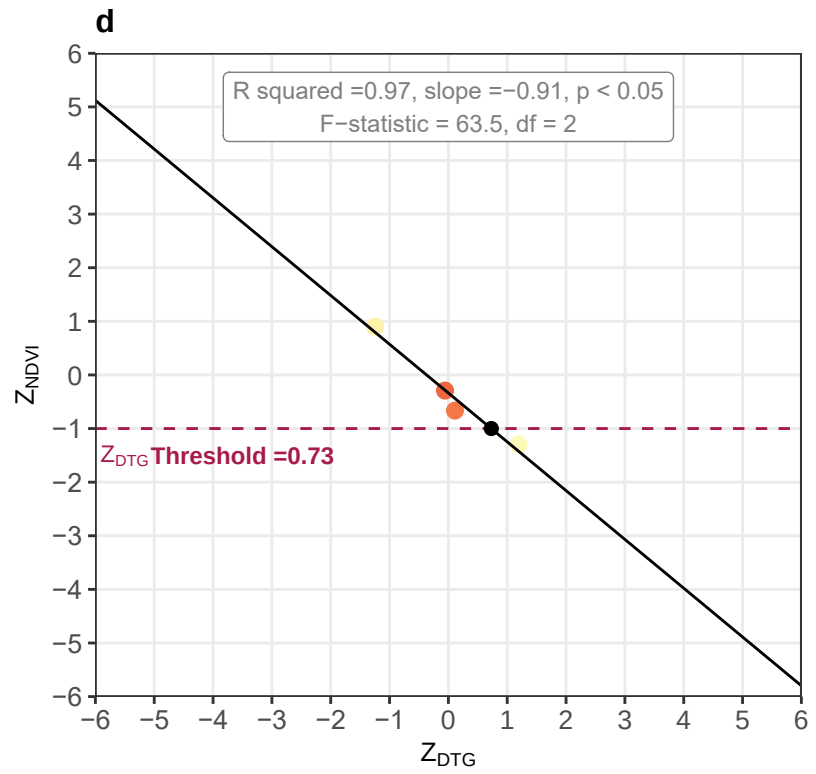
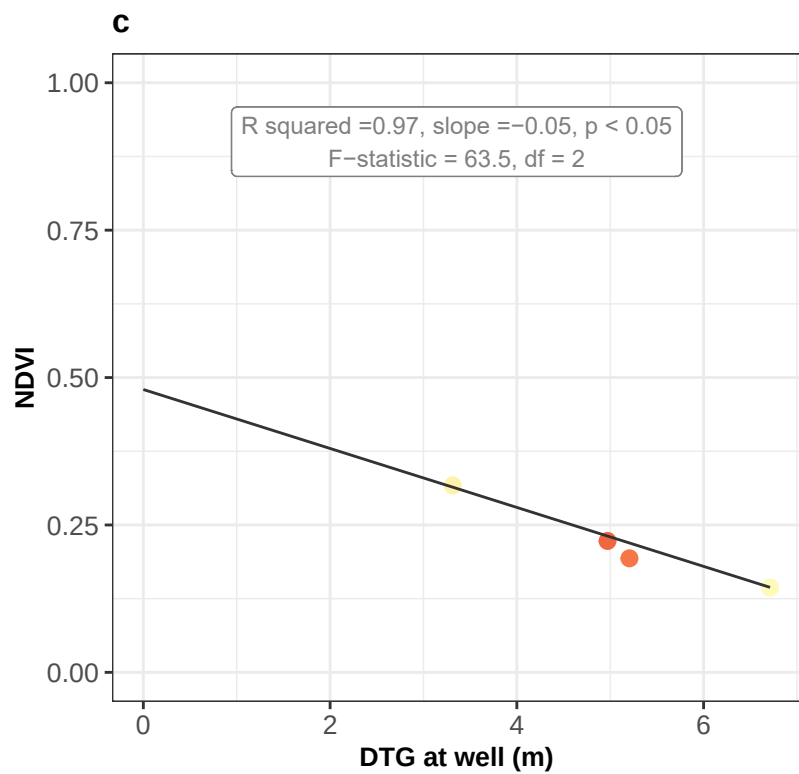
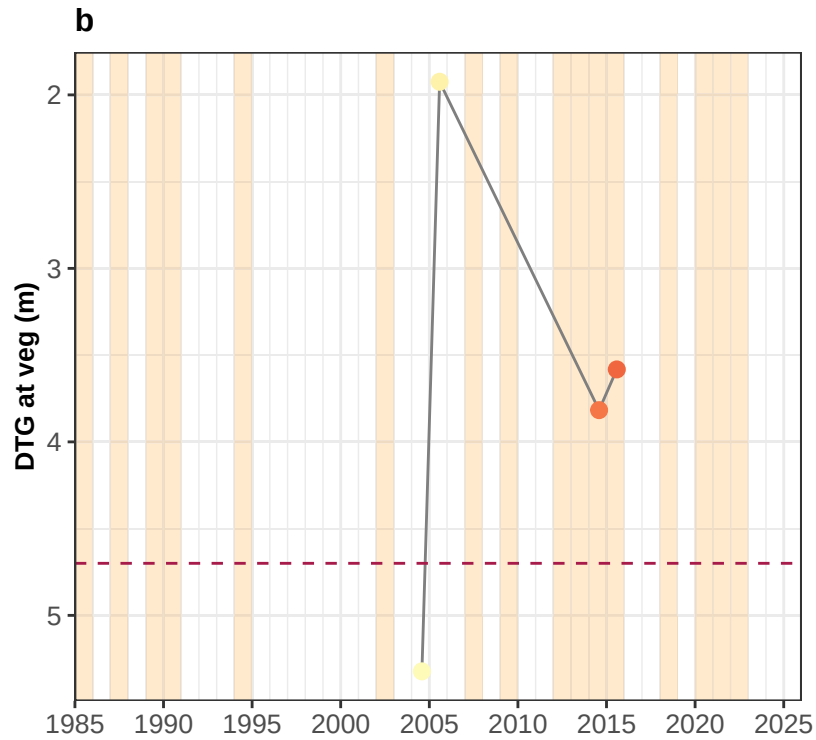
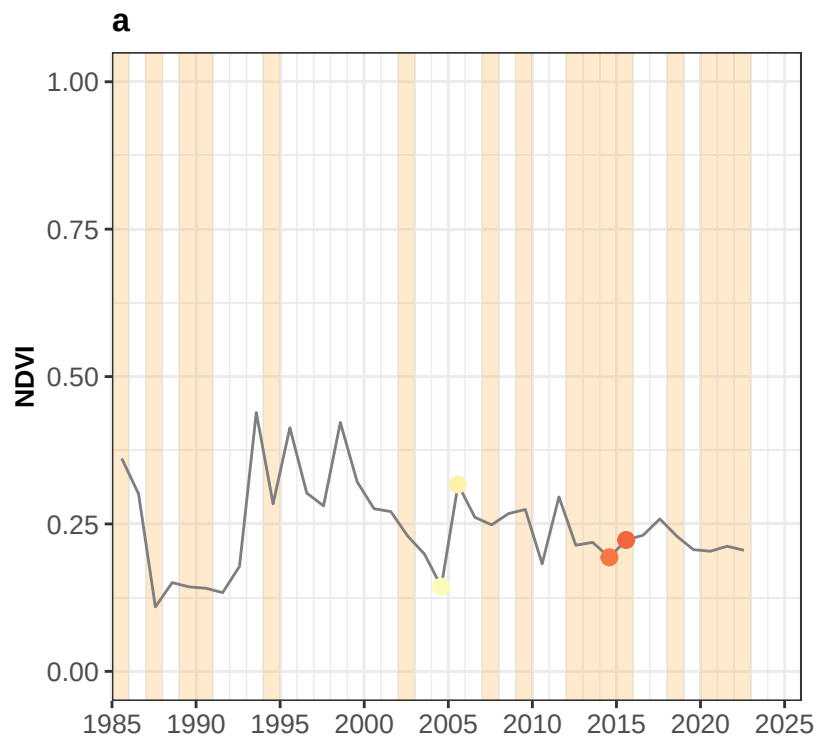
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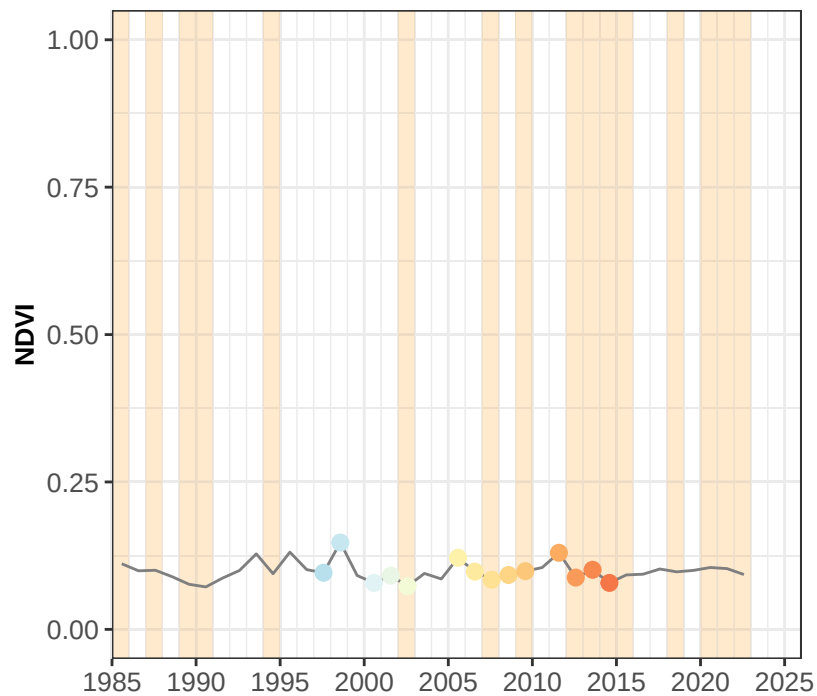


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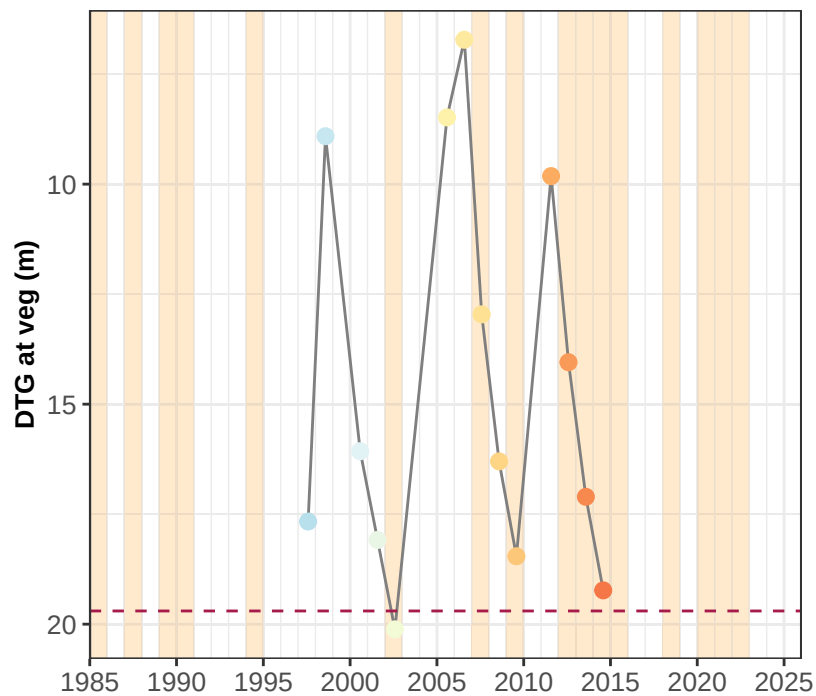


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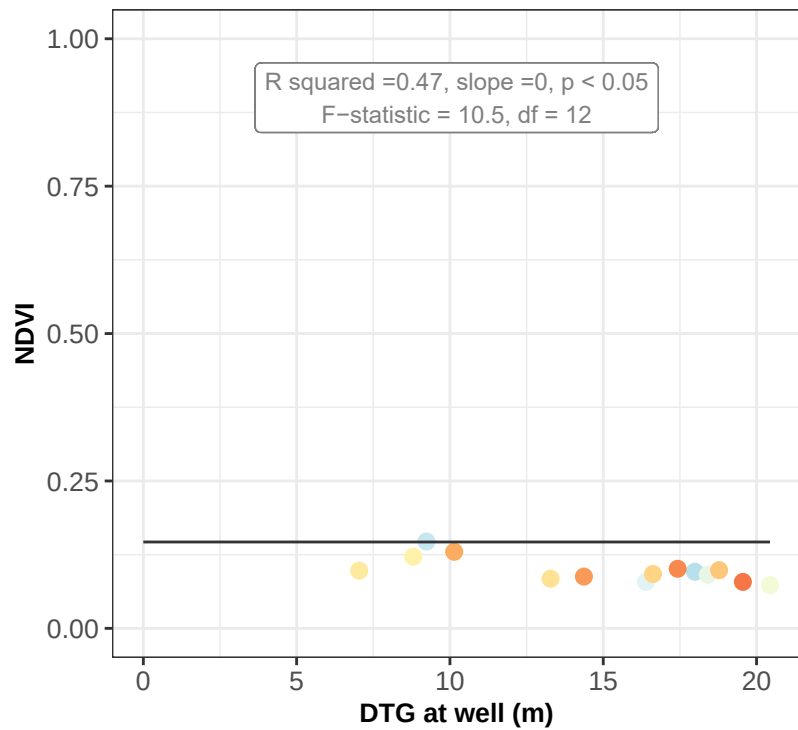
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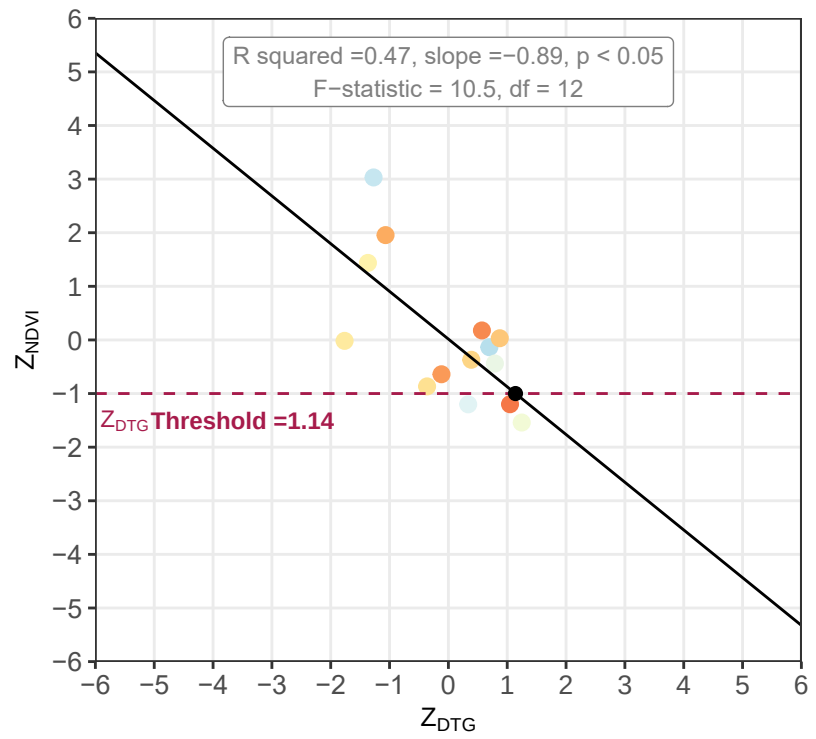
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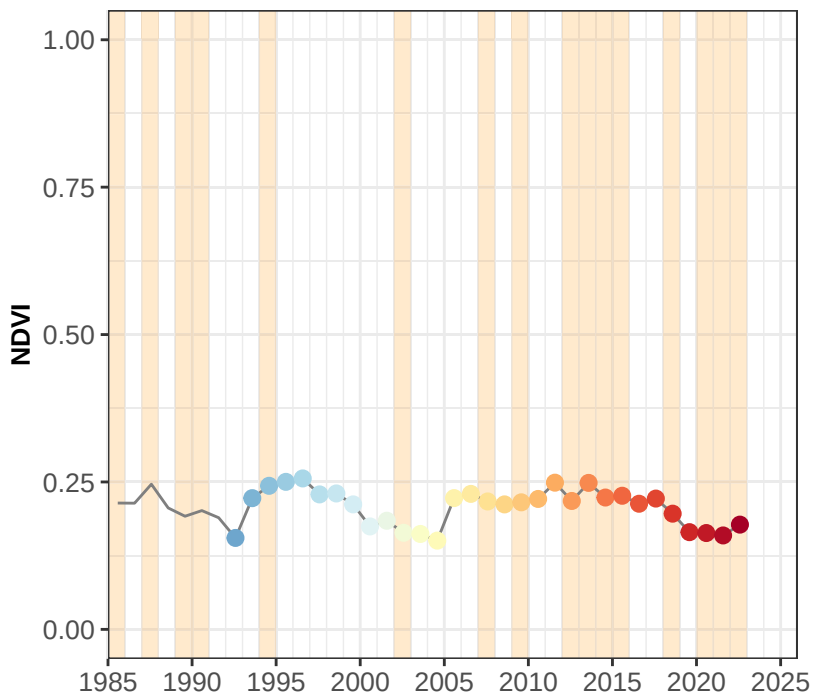


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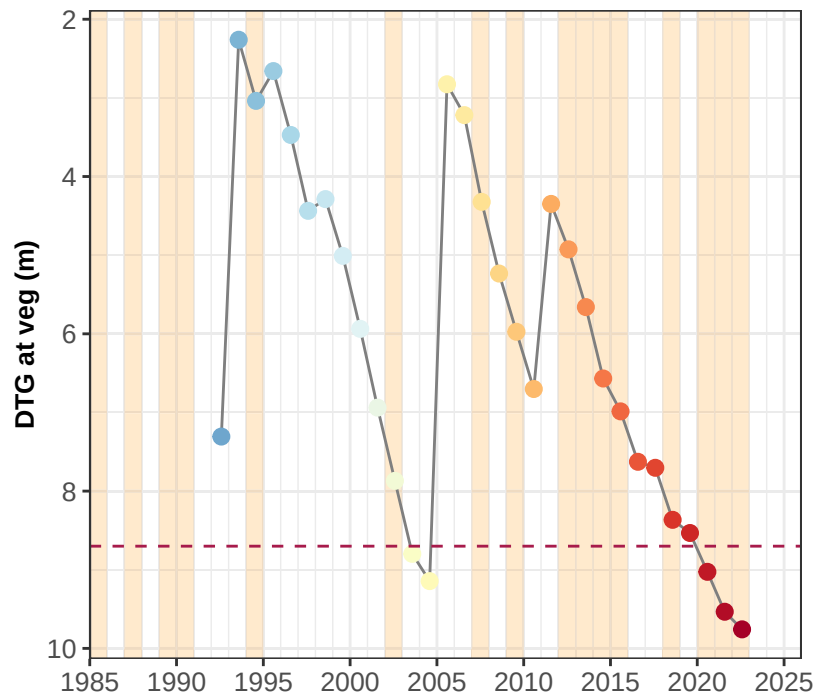


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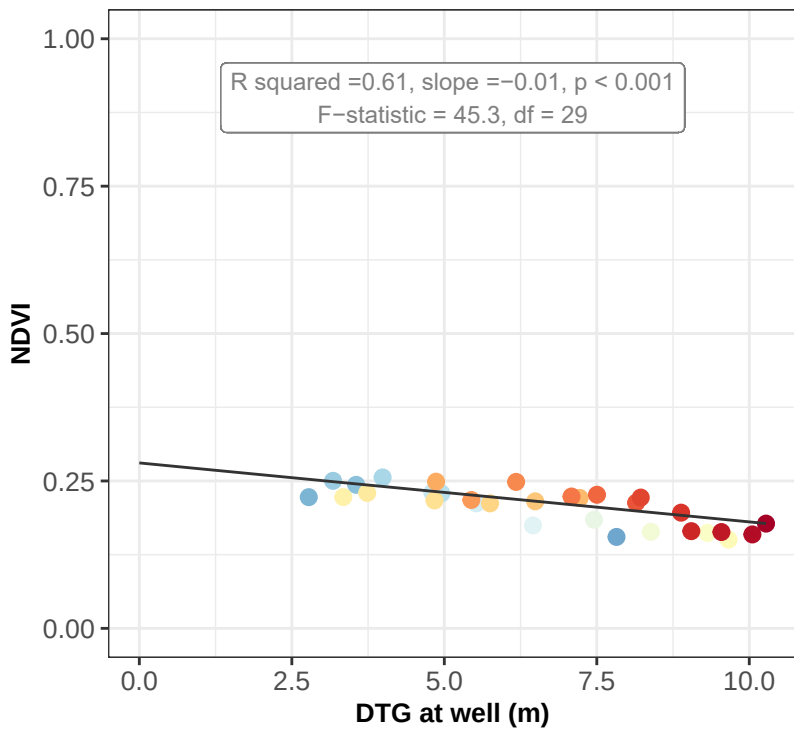
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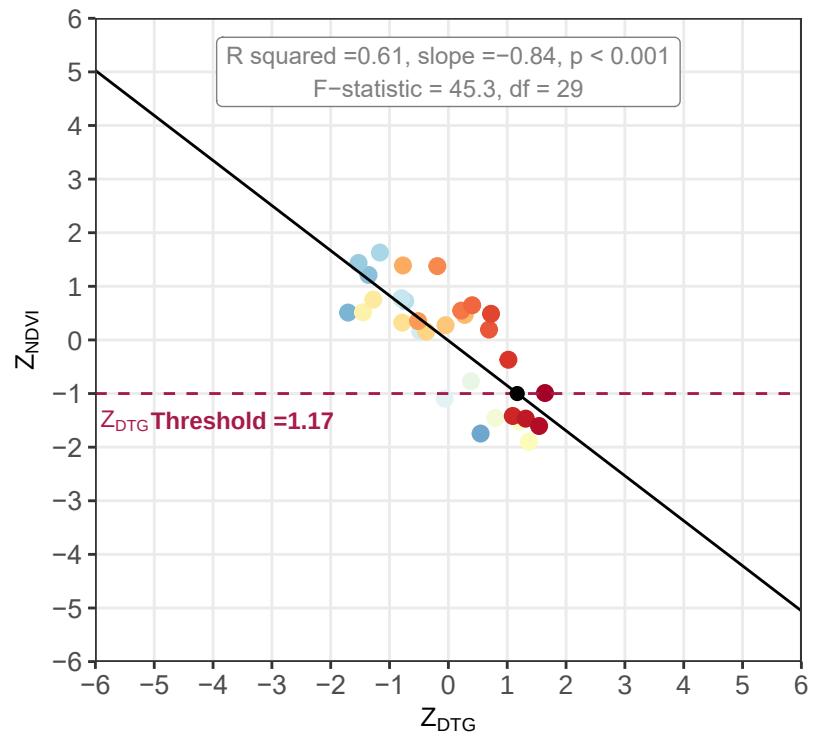
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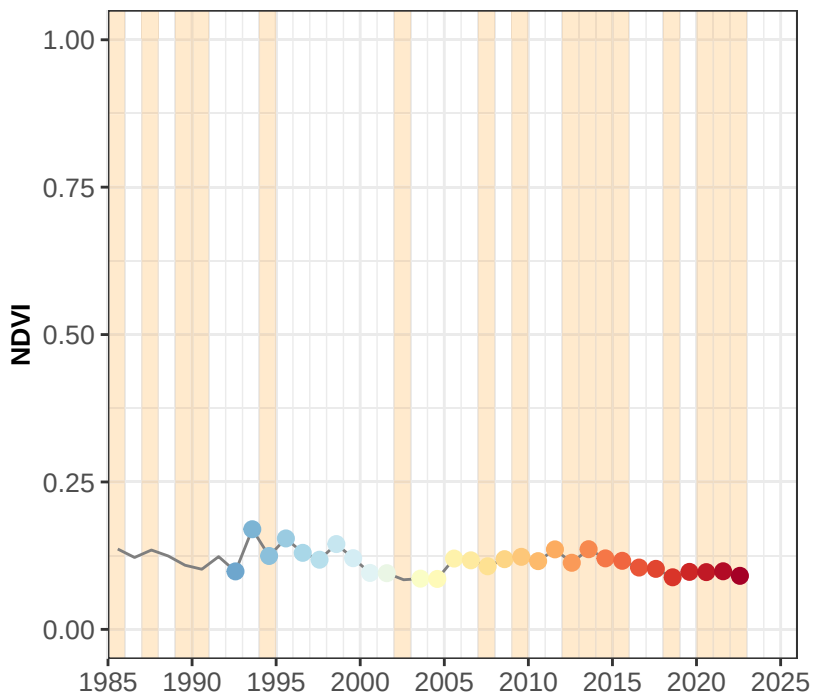


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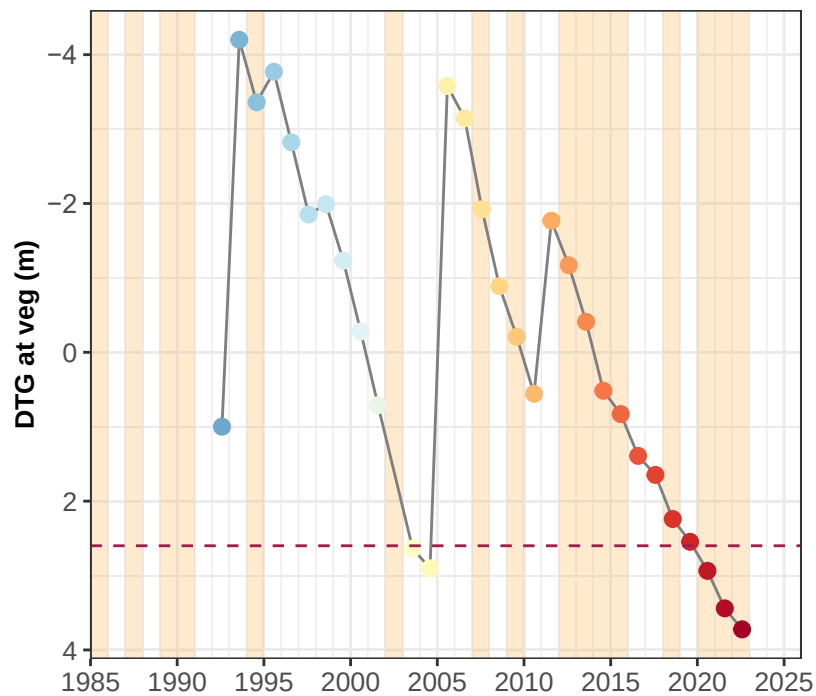


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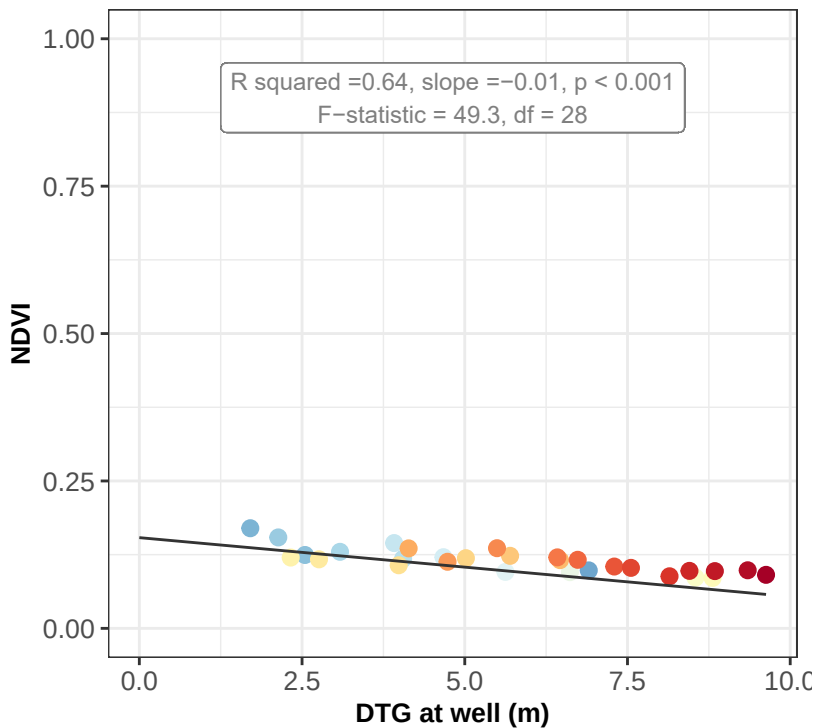
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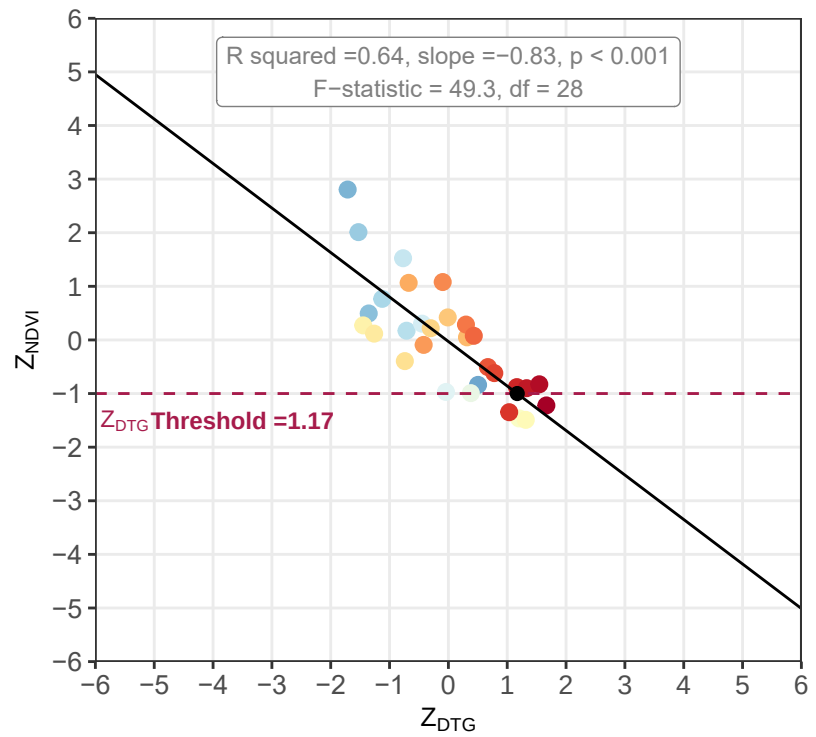
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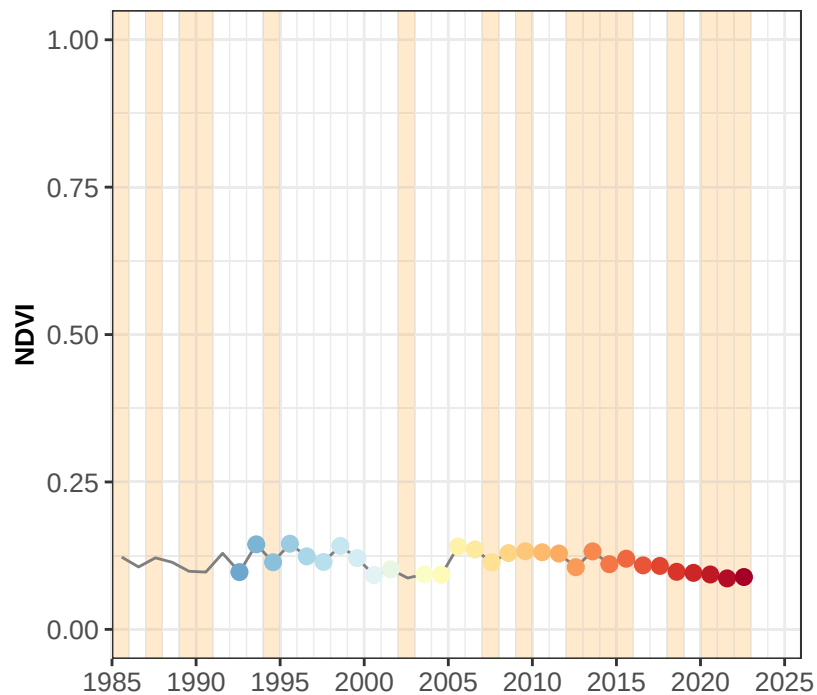


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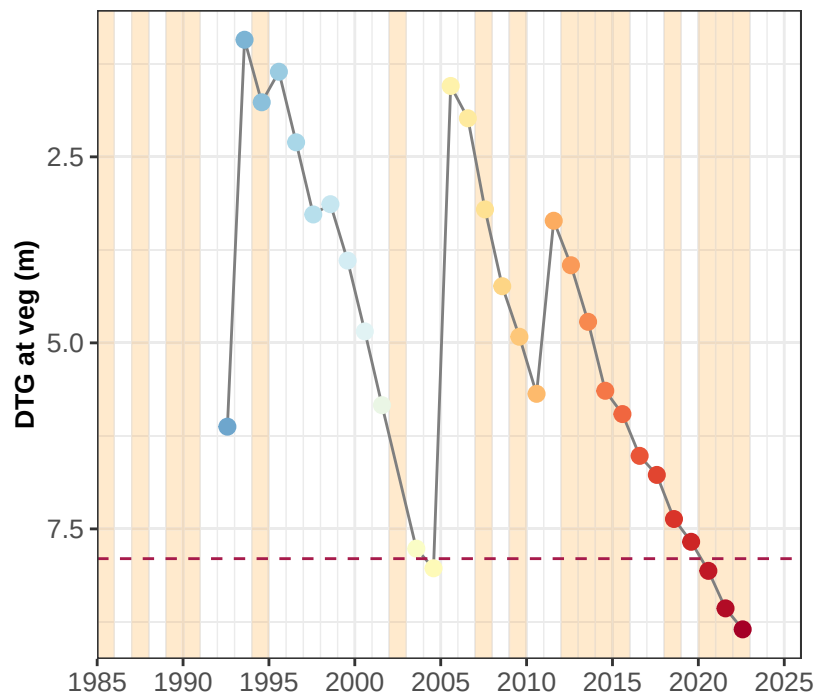


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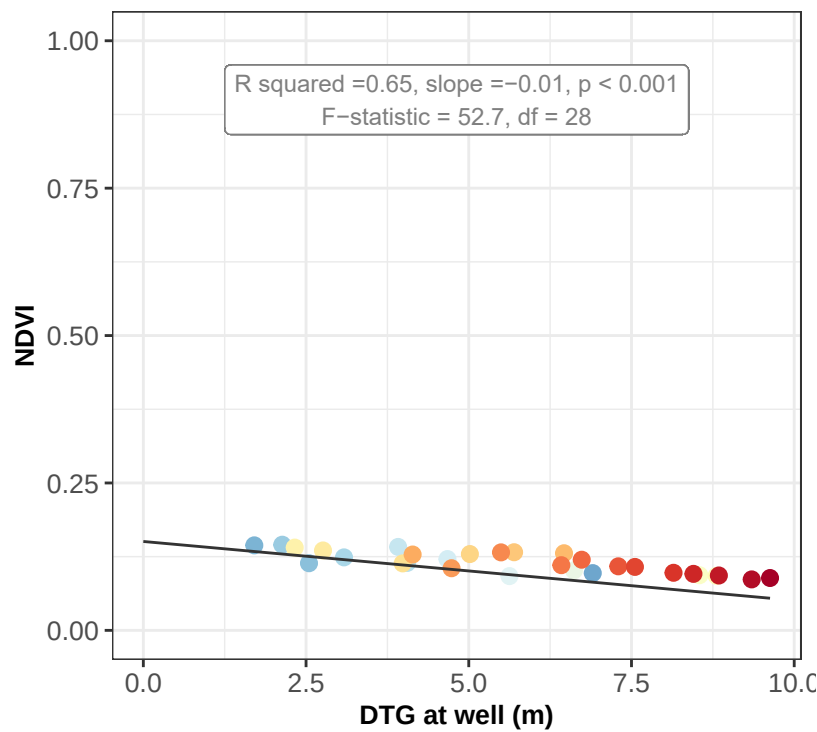
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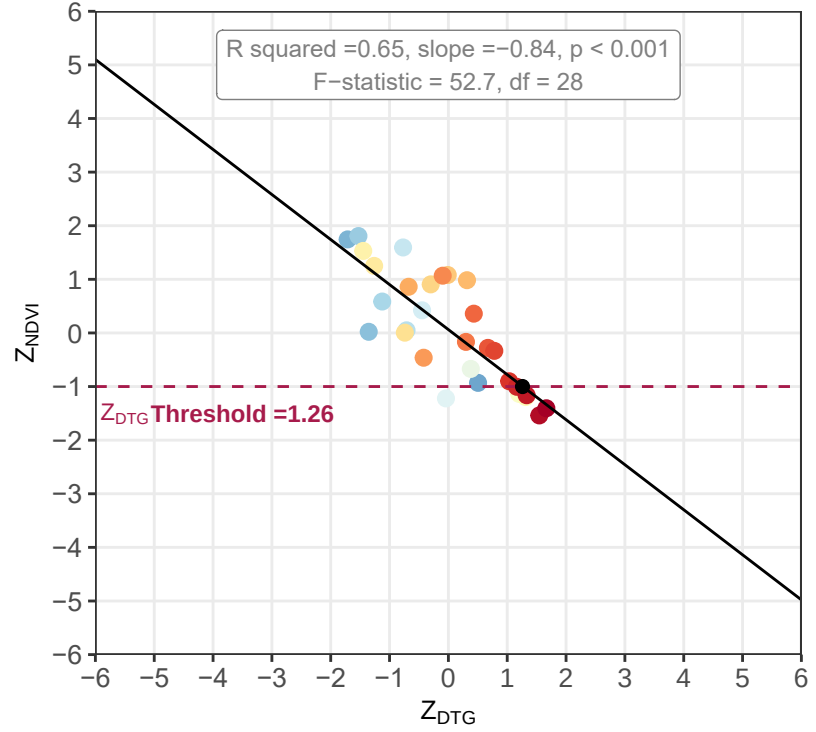
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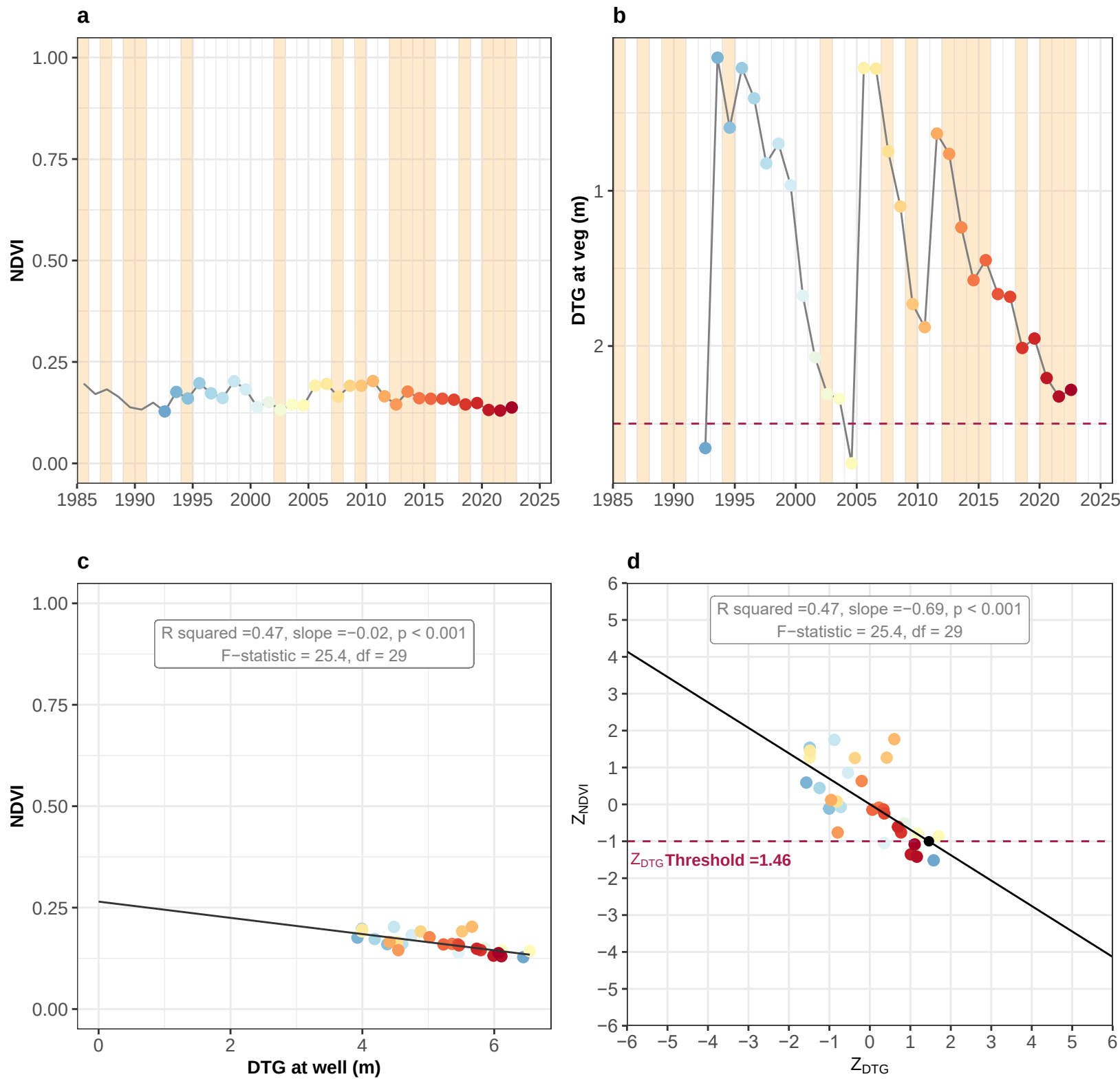
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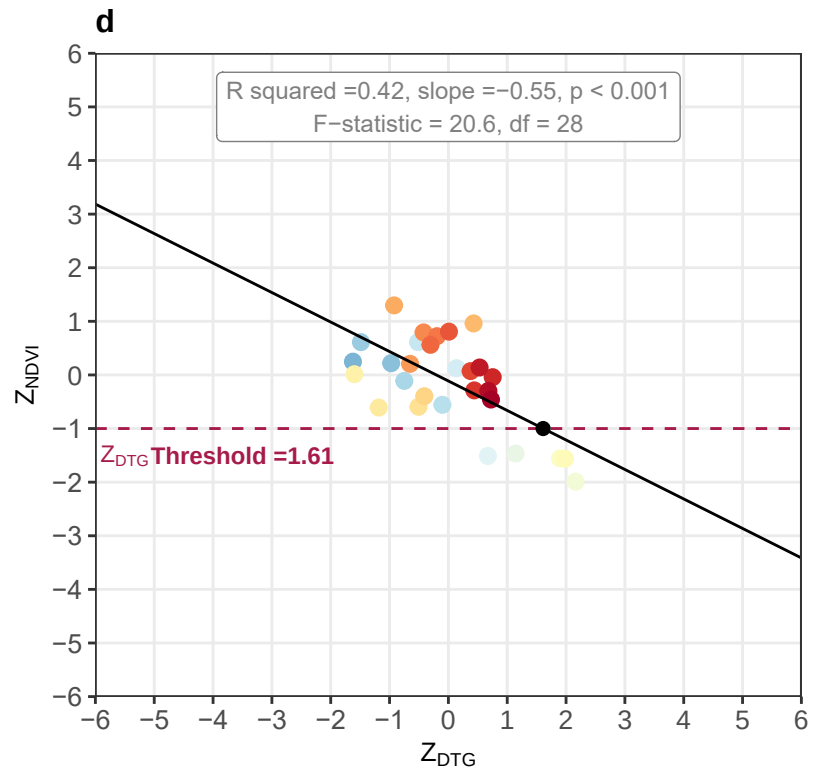
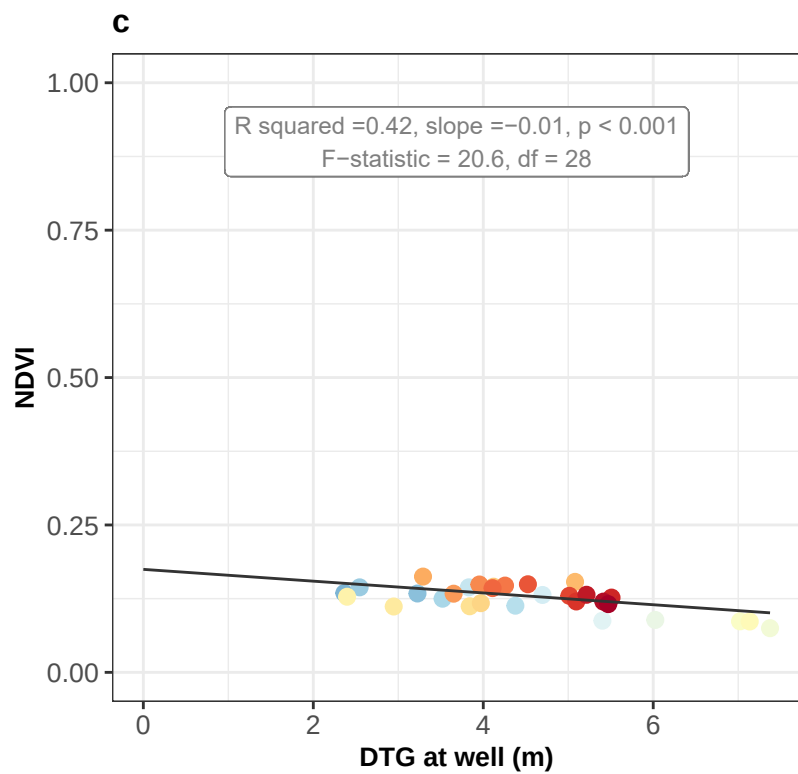
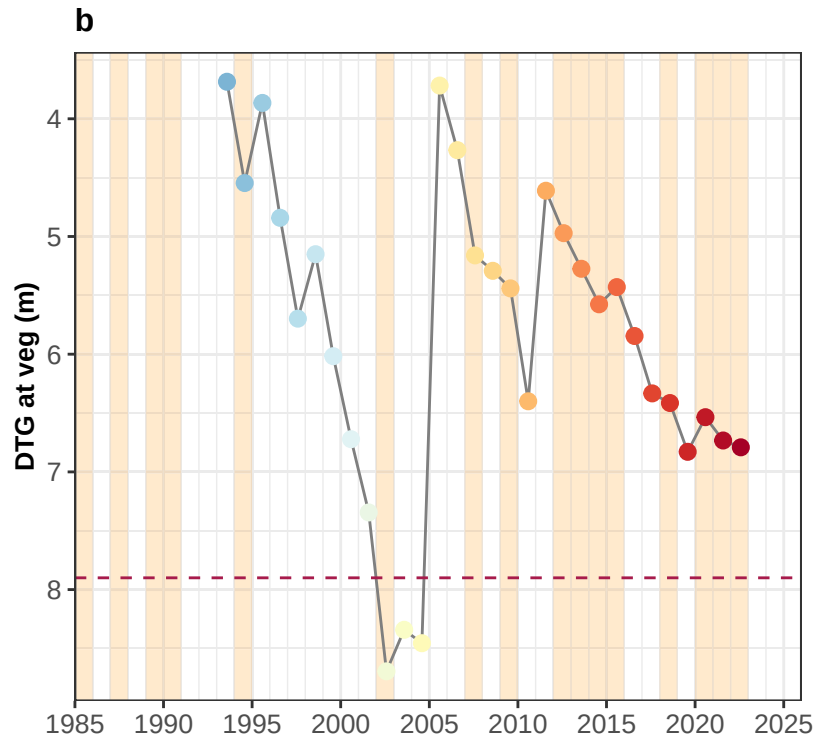
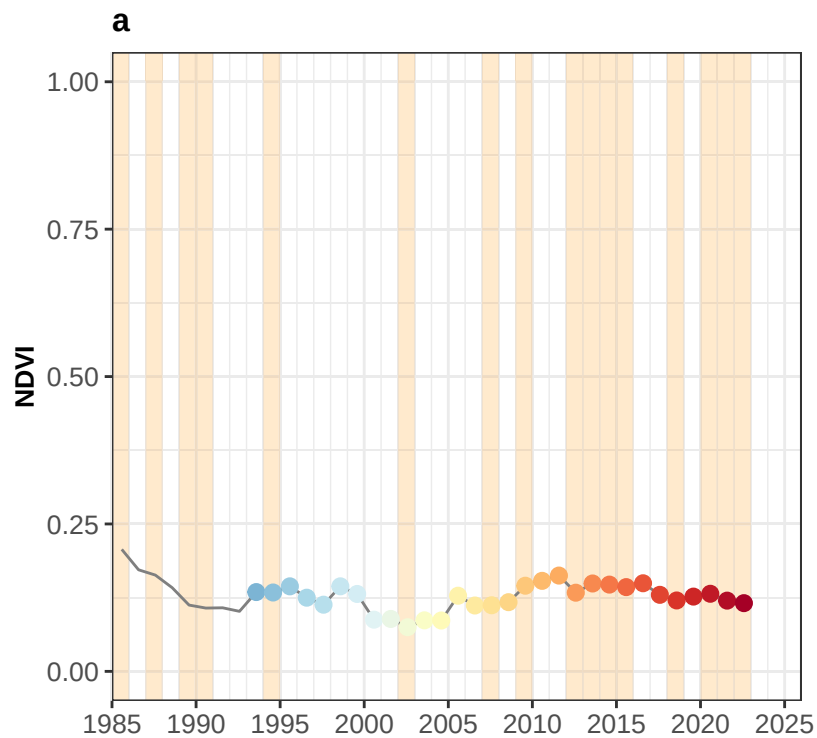
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(gdeID: 139459)

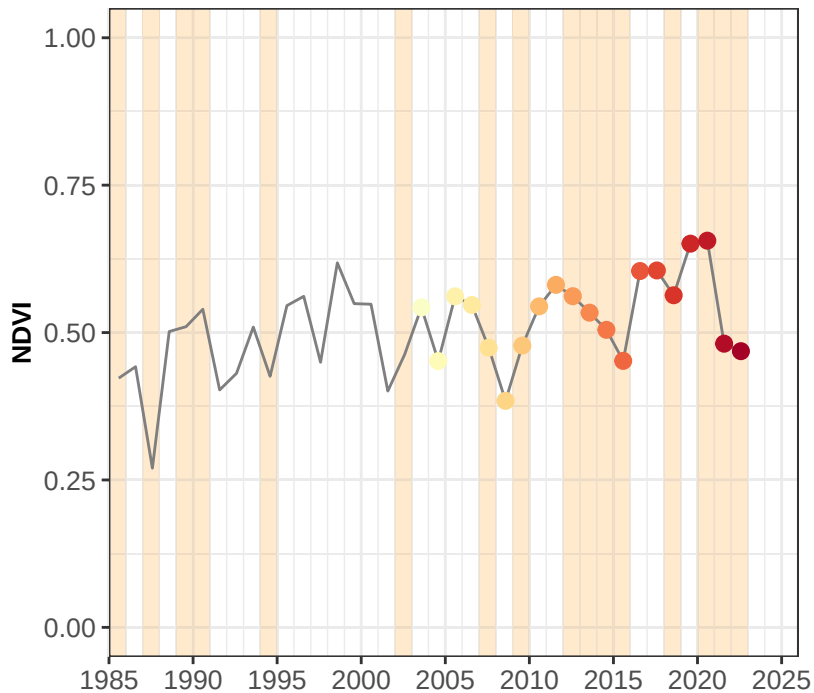


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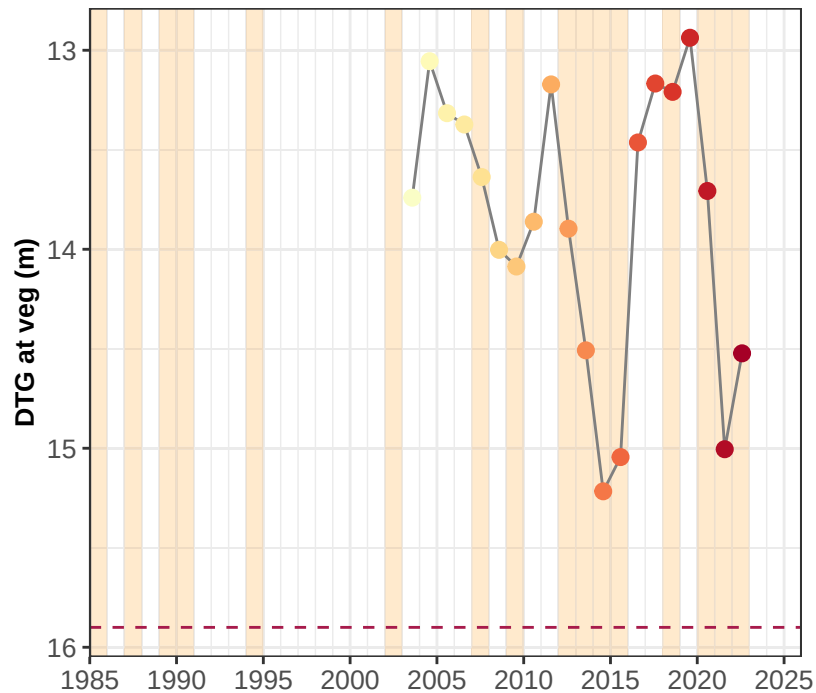


(gdeID: 139590)

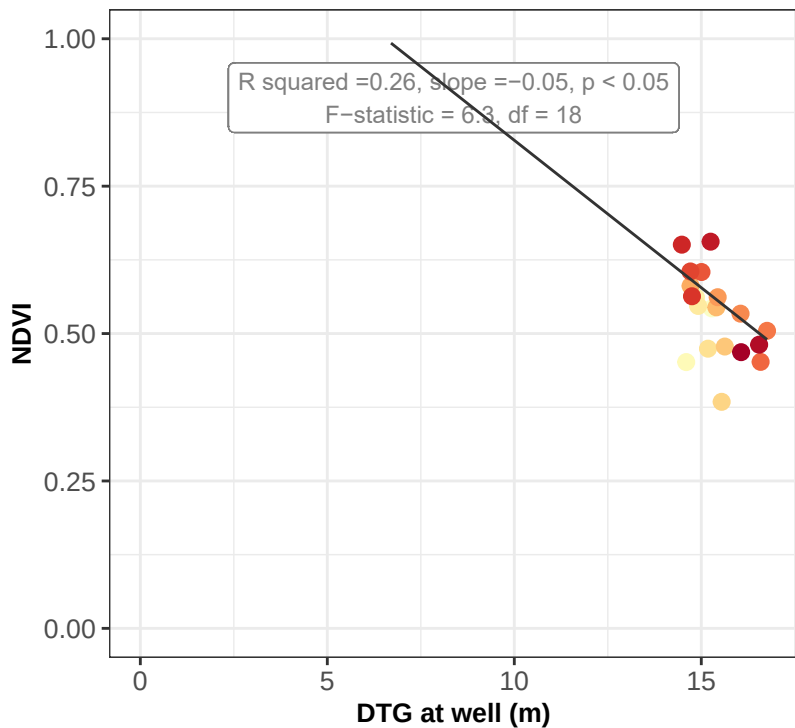
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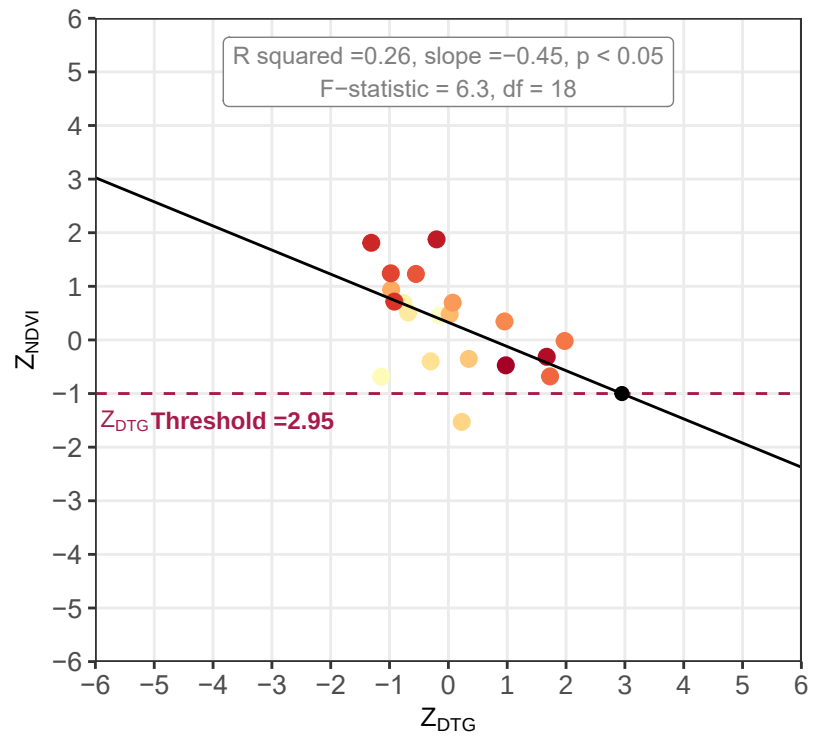
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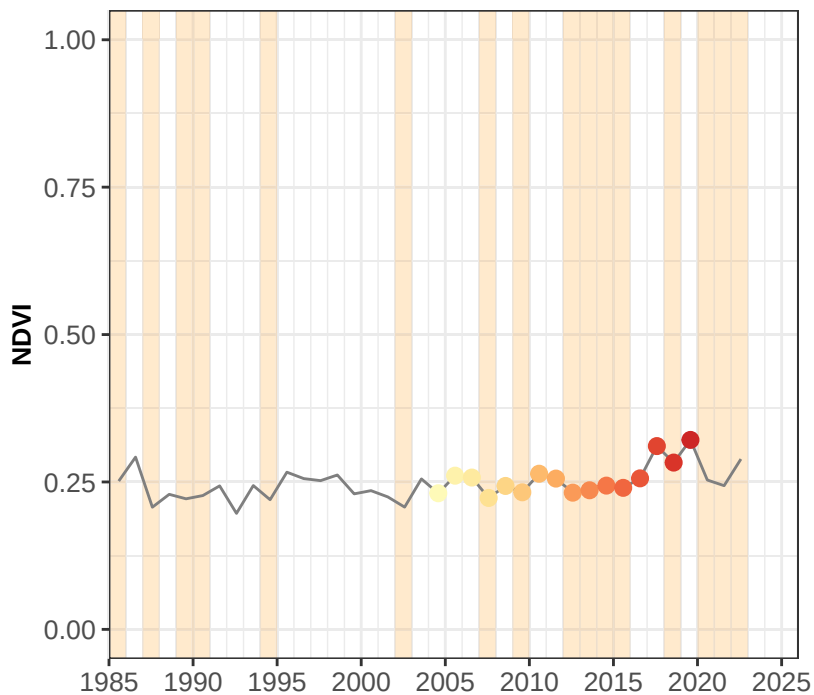


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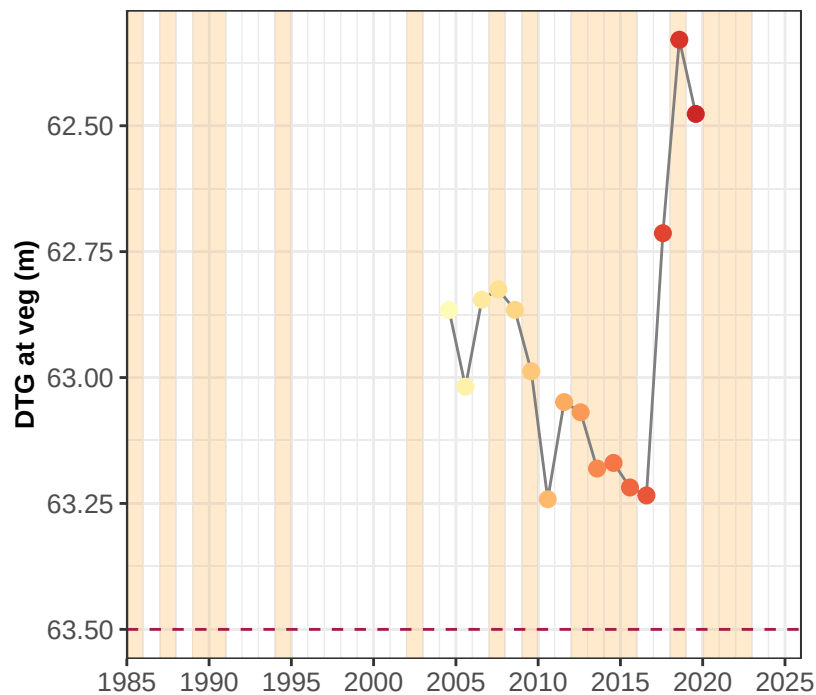


(gdeID: 140108)

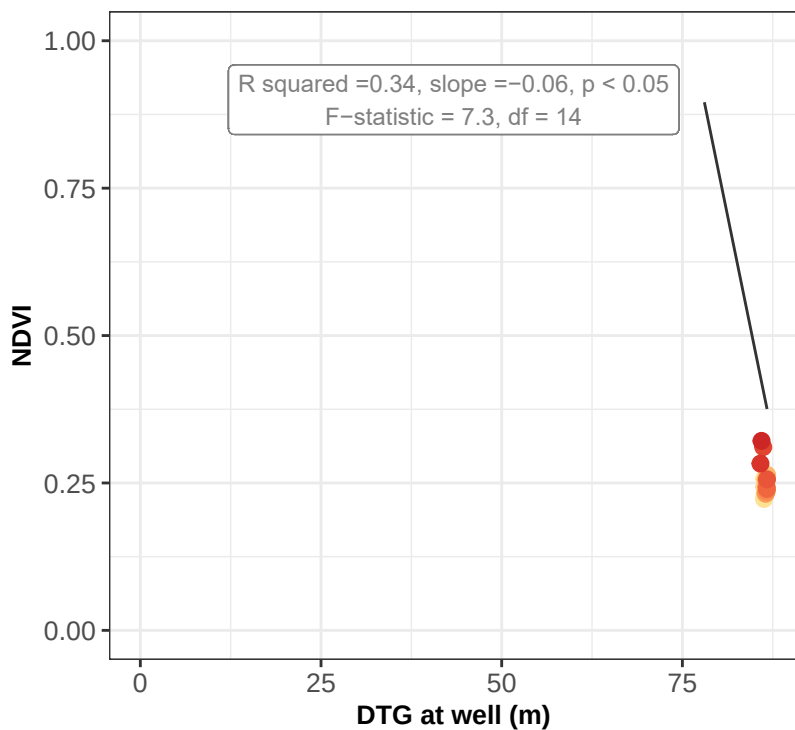
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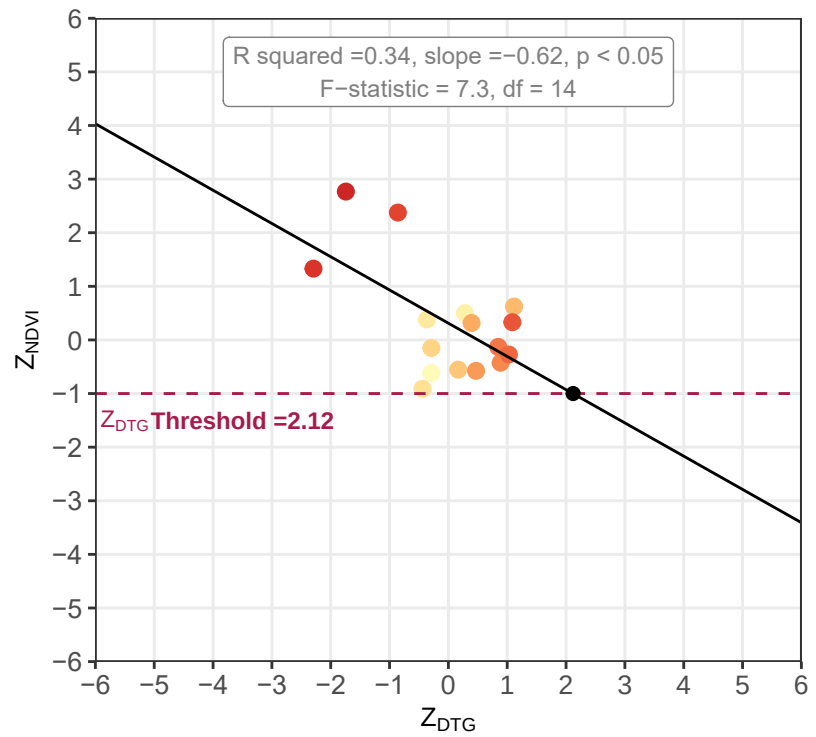
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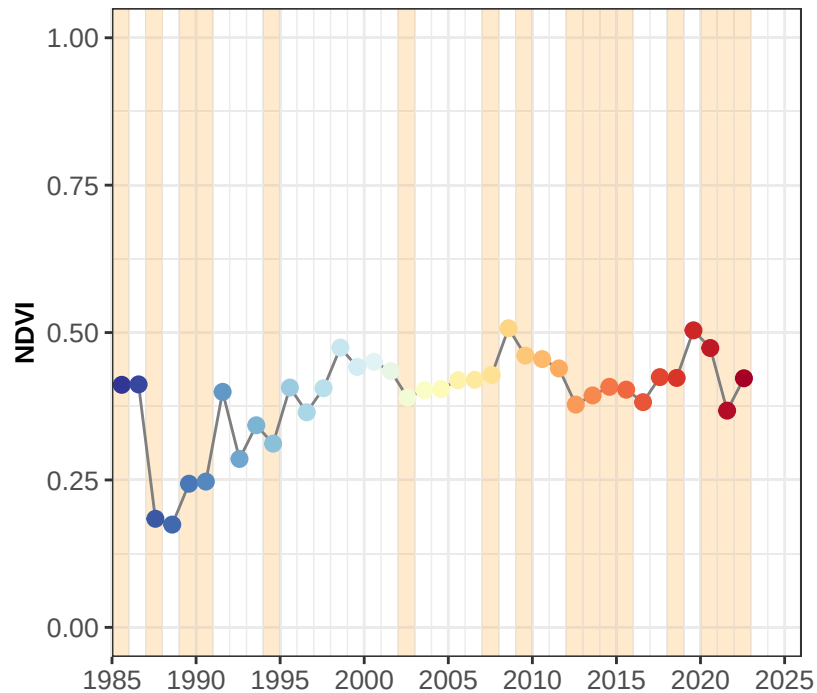


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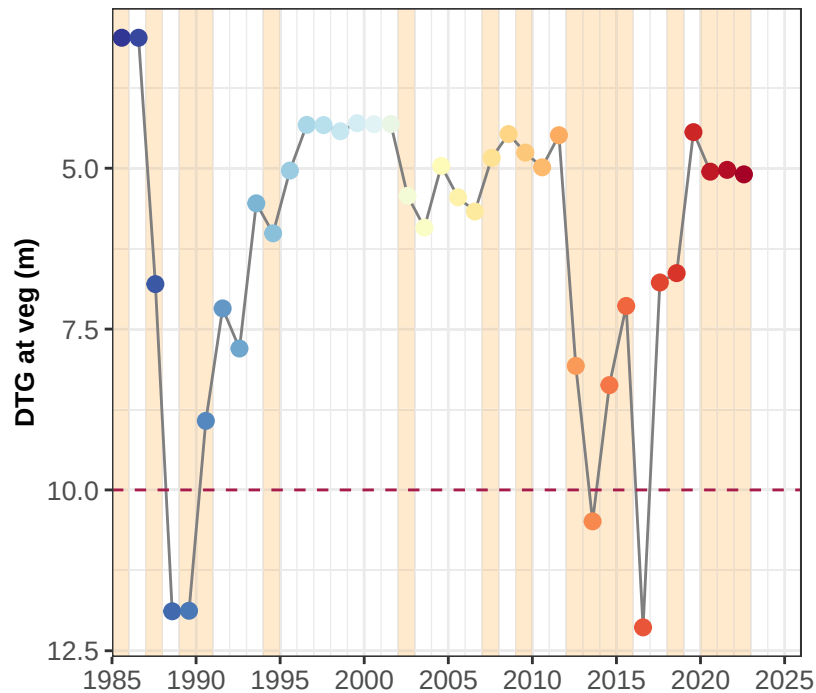


Flooded Veg (gdeID: 140184)

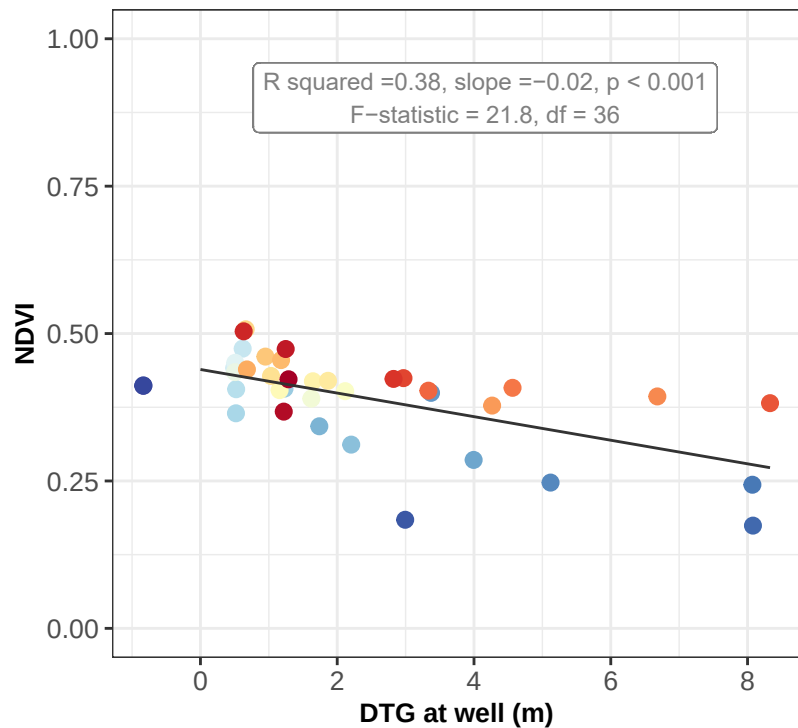
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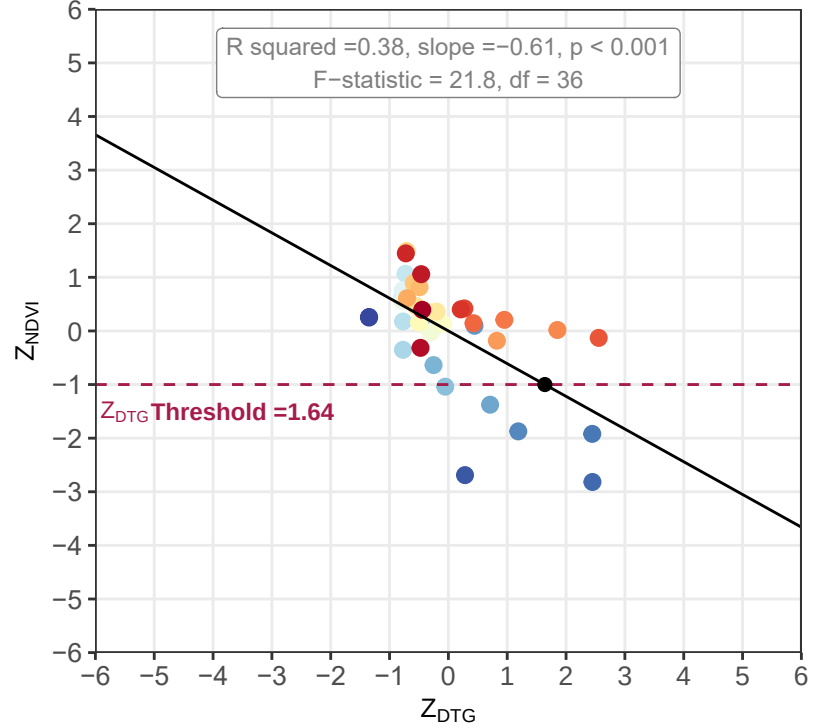
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c

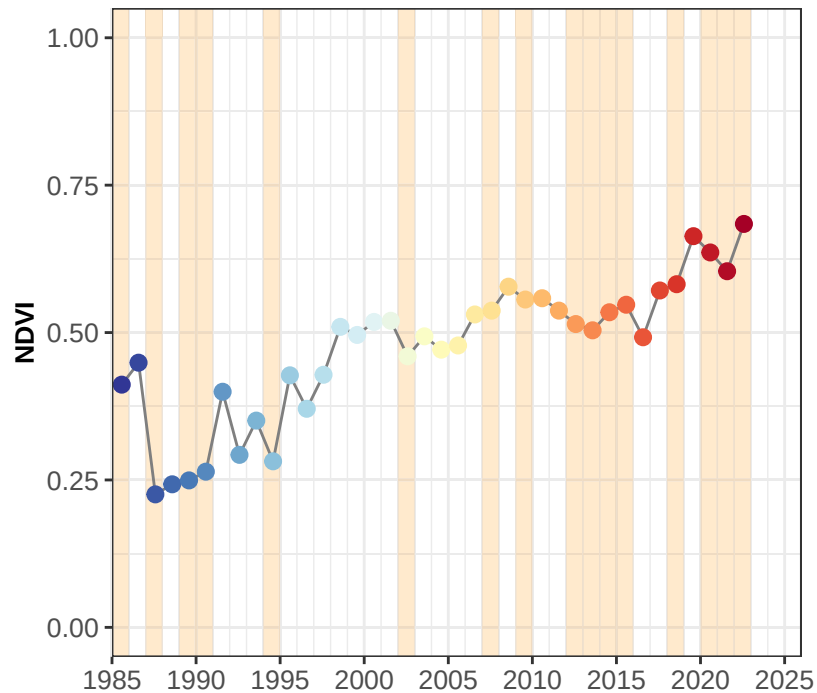


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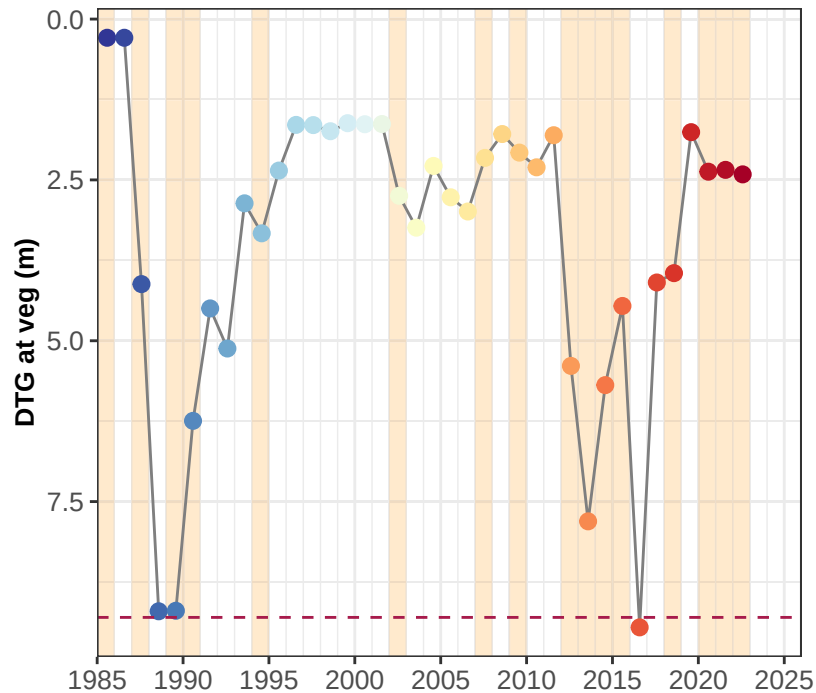


Flooded Veg (gdeID: 140186)

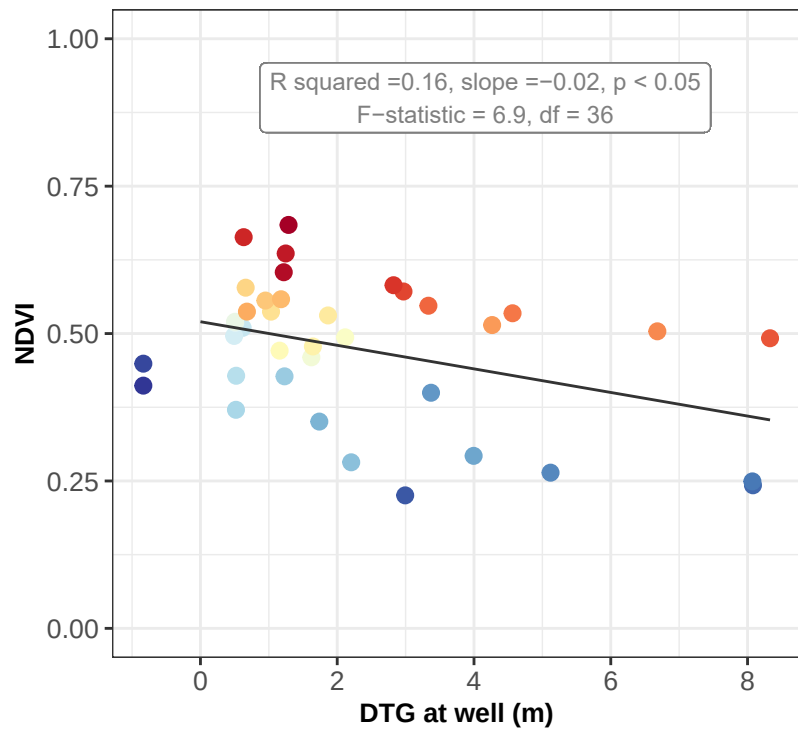
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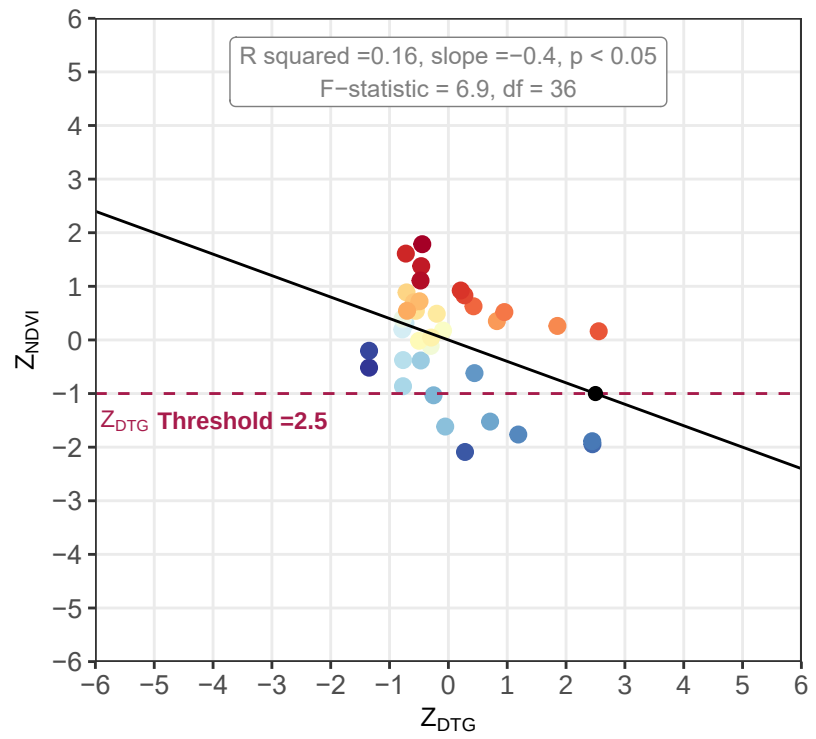
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c

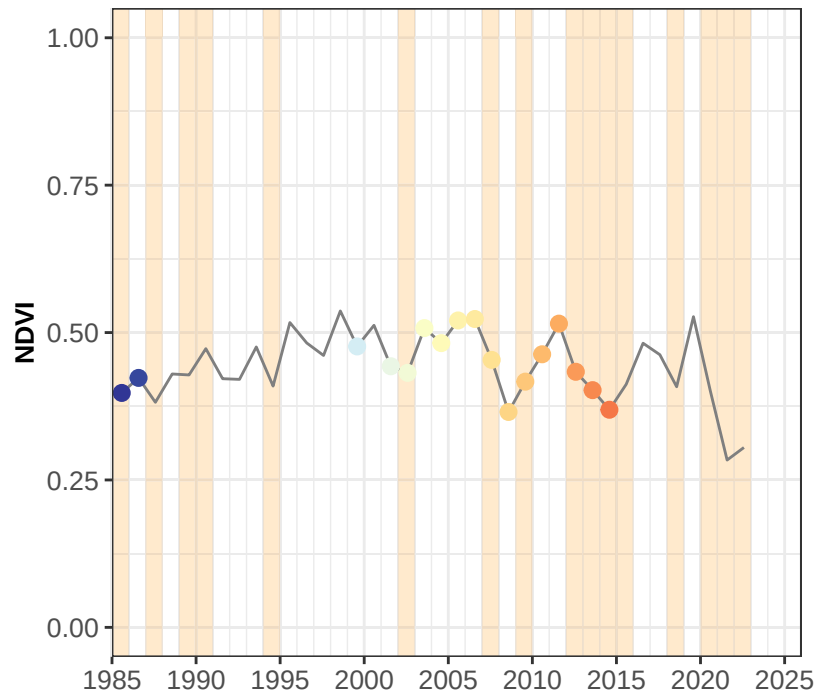


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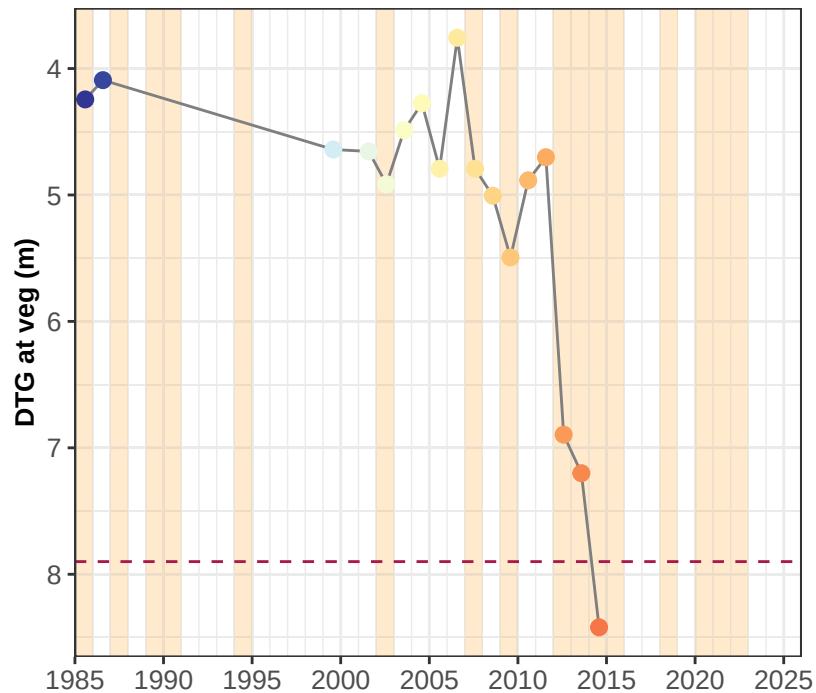


Rubus (gdeID: 140646)

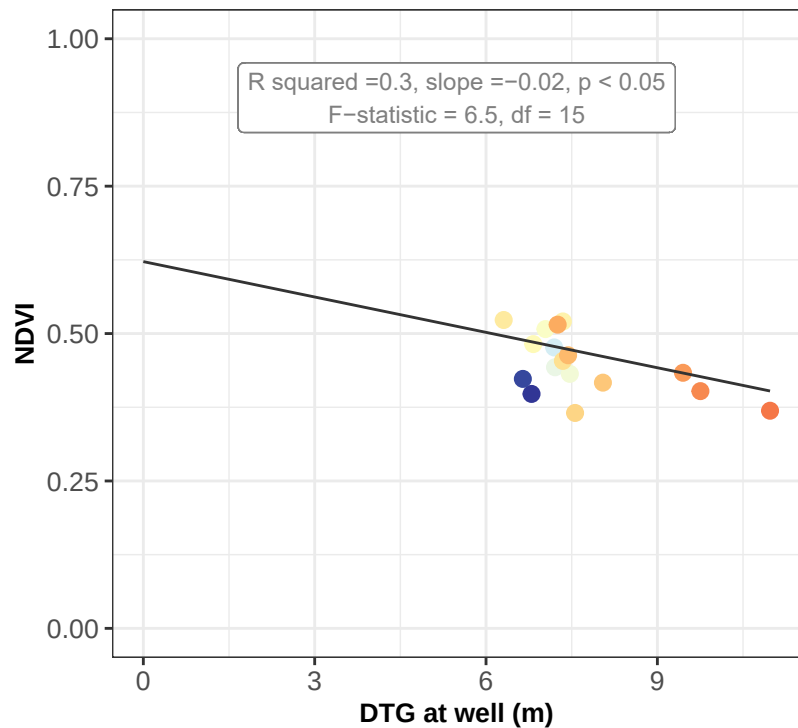
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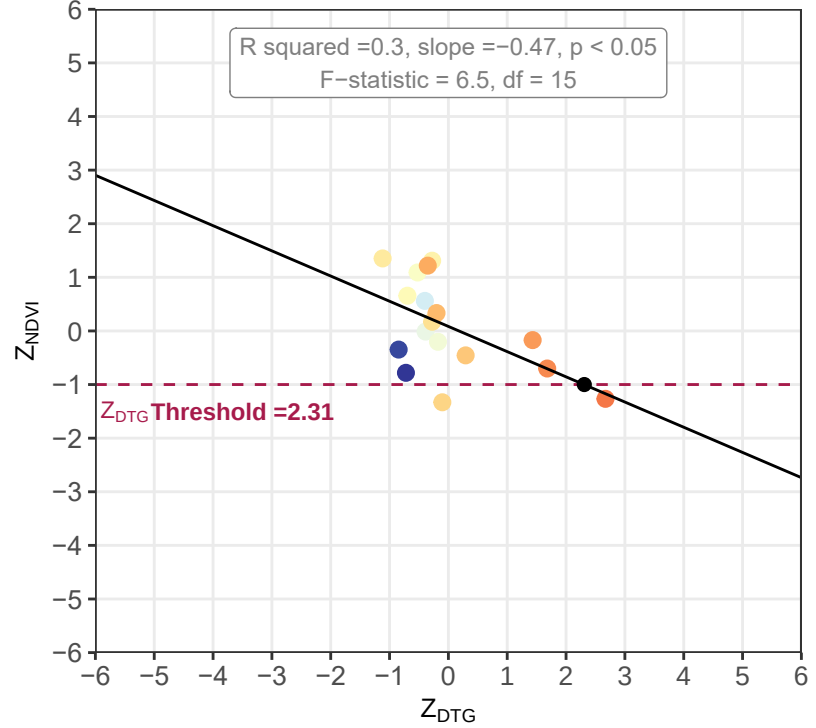
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c

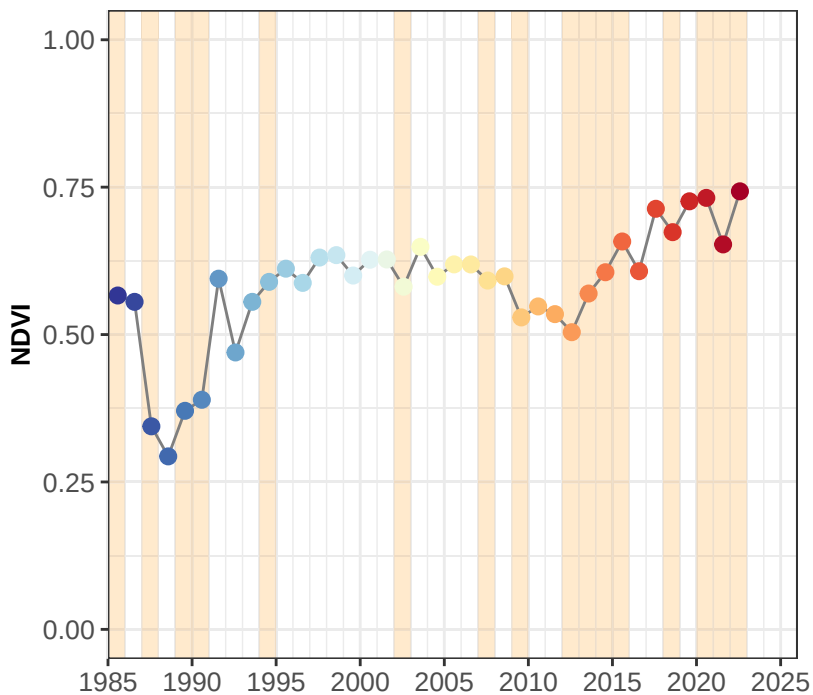


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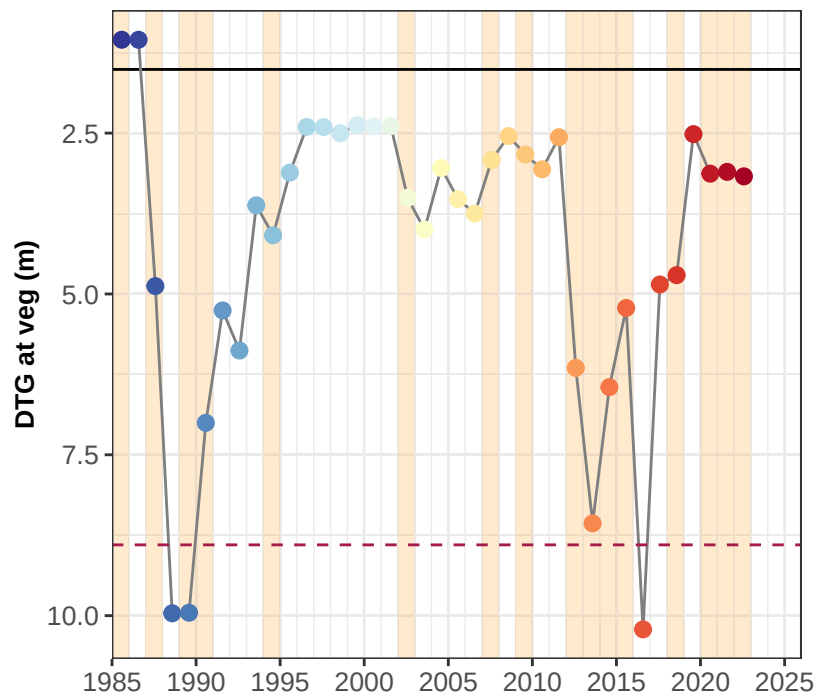


Salix (gdeID: 141445)

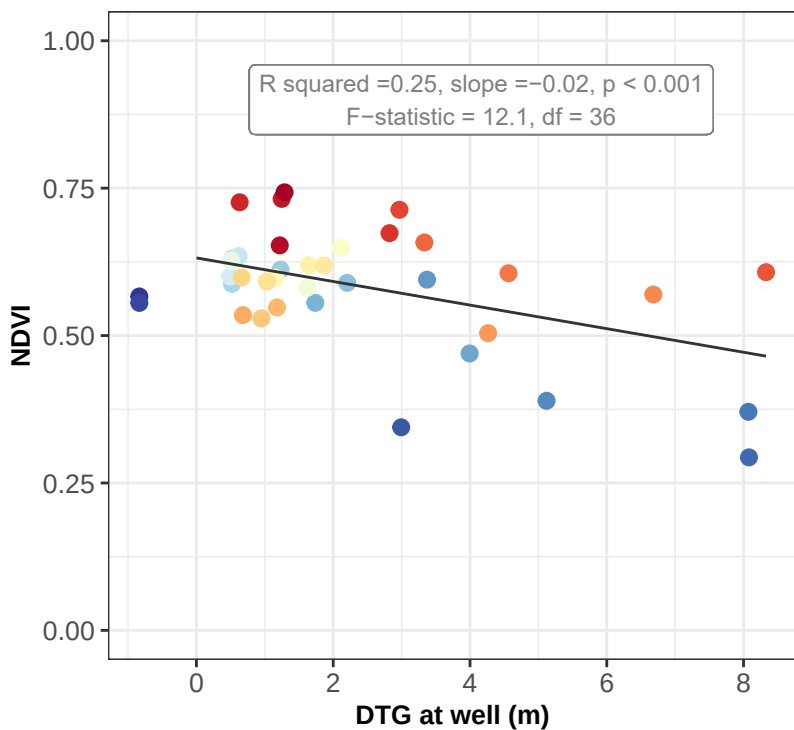
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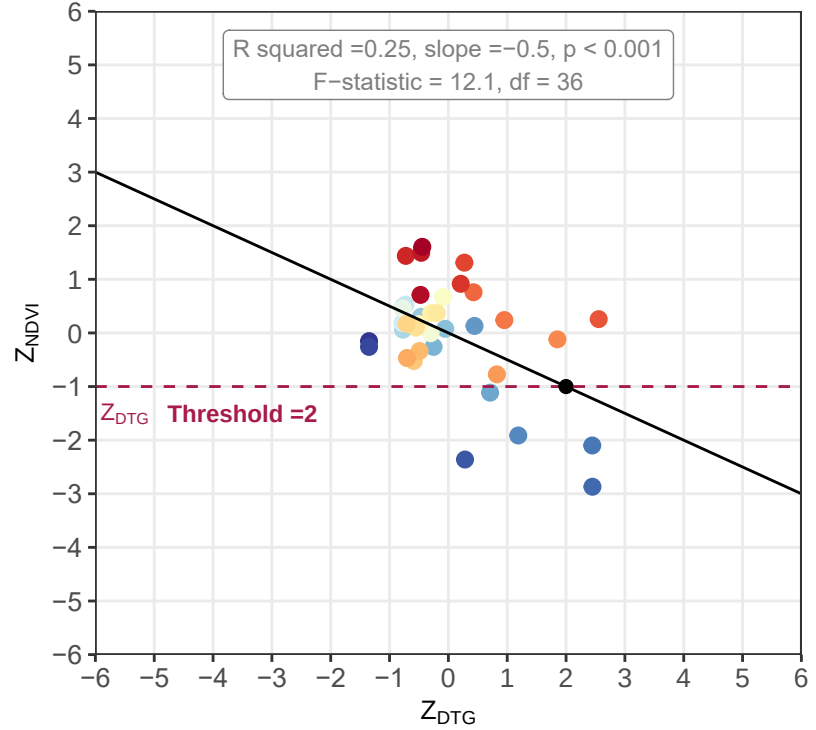
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c

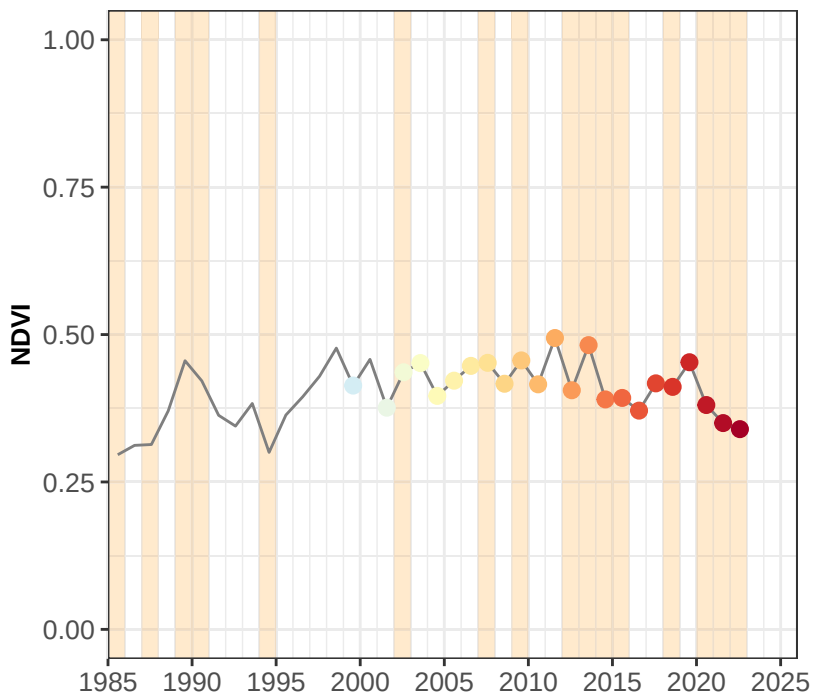


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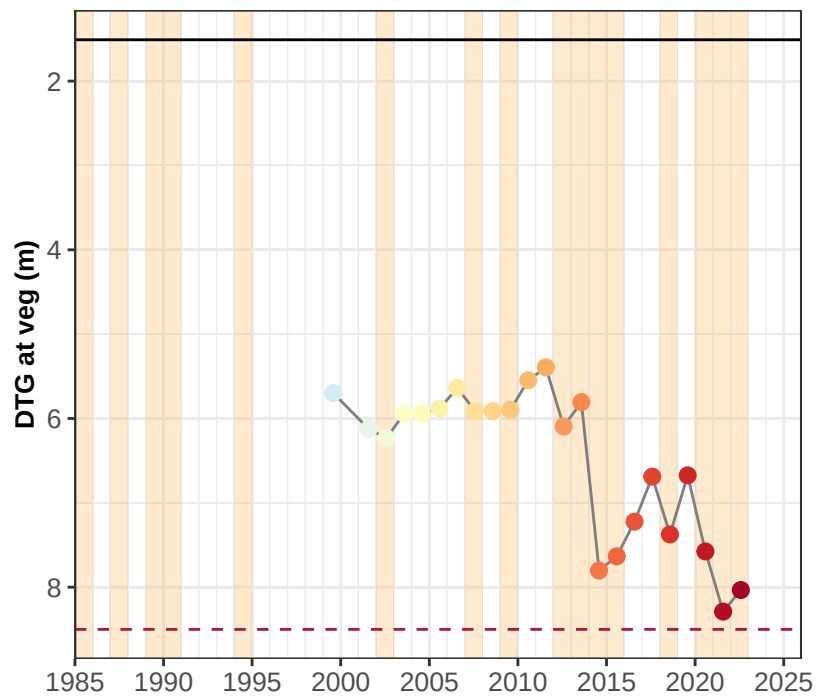


Salix (gdeID: 141865)

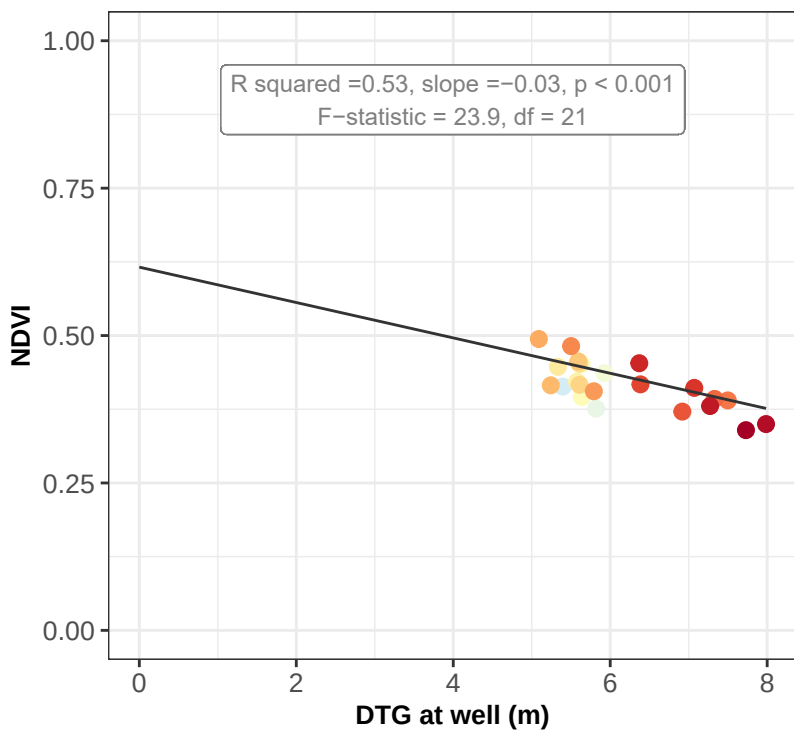
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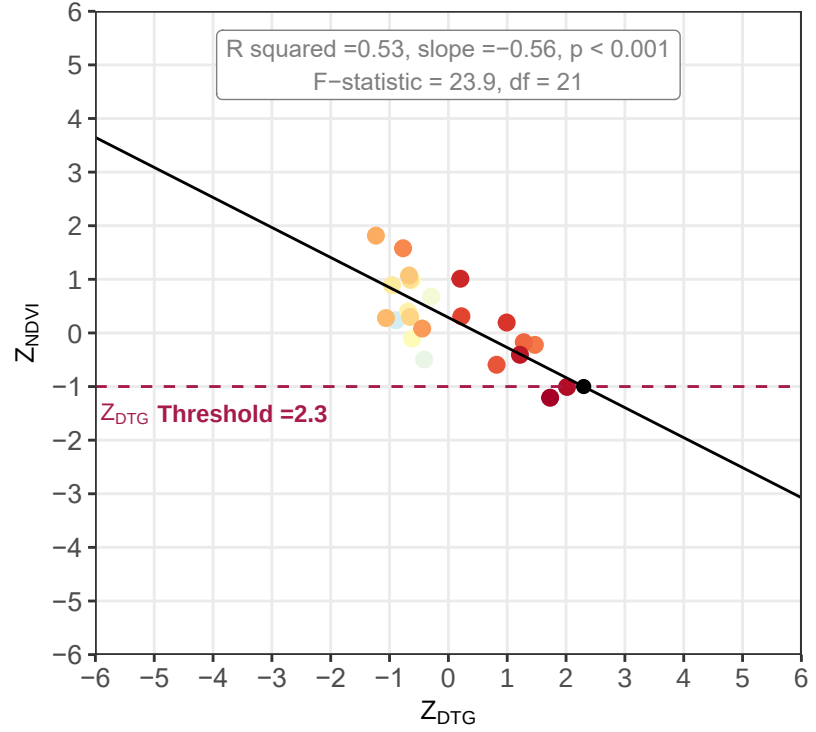
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c

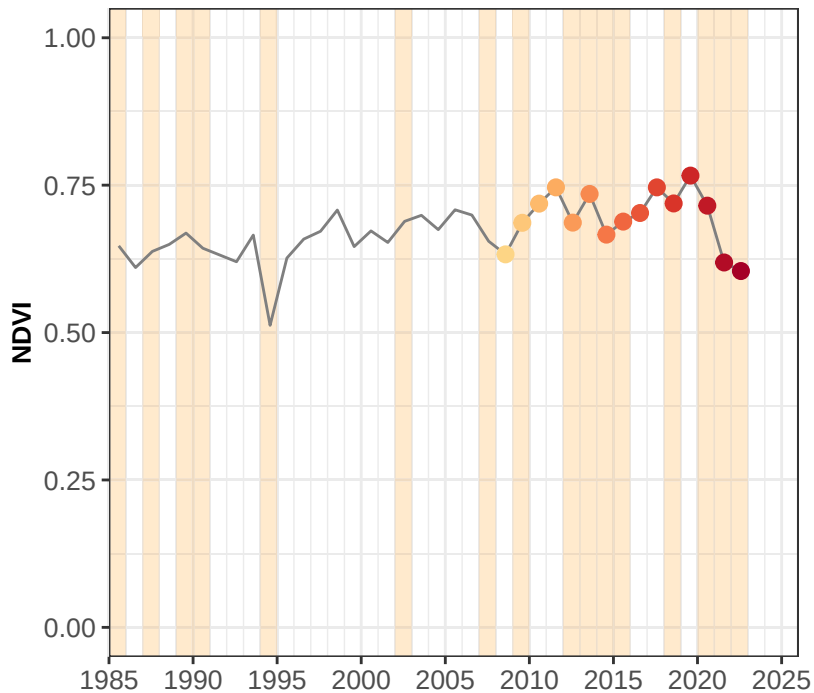


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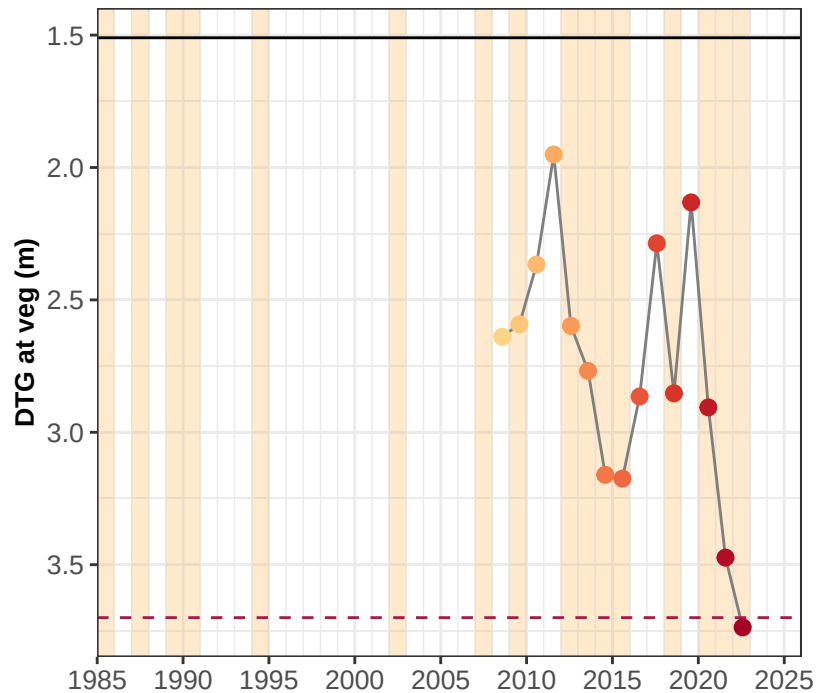


Salix (gdeID: 142028)

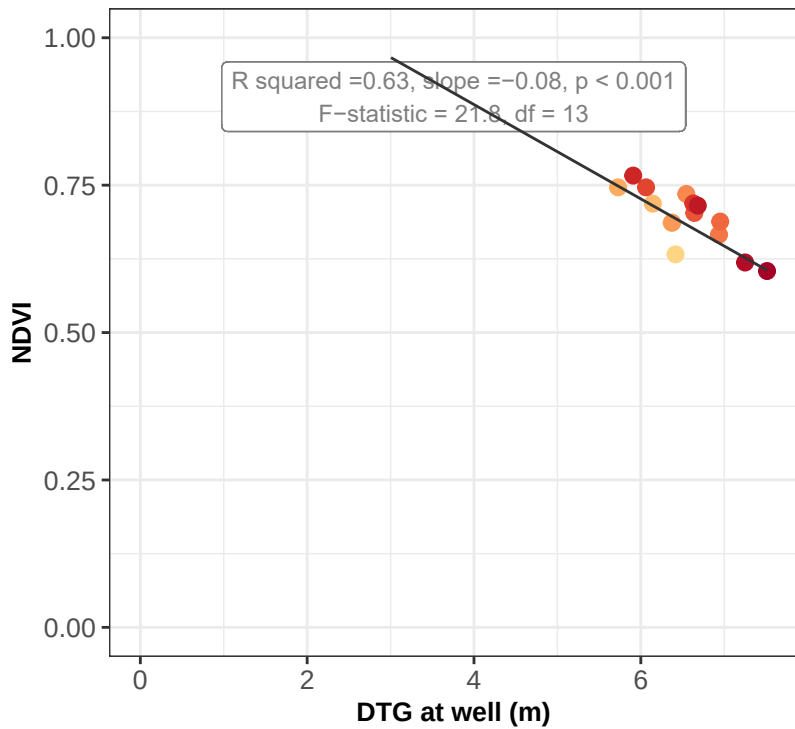
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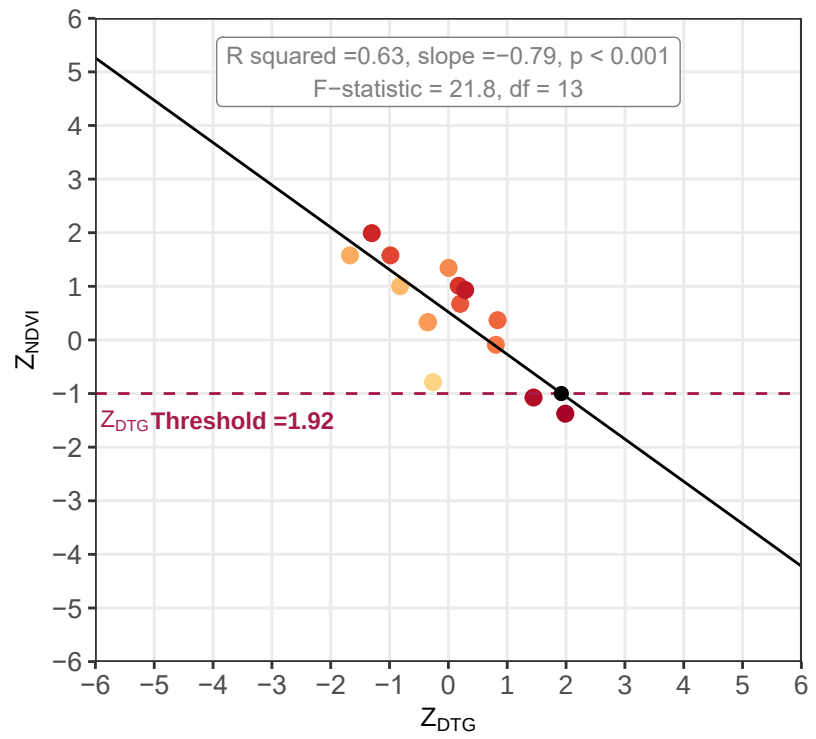
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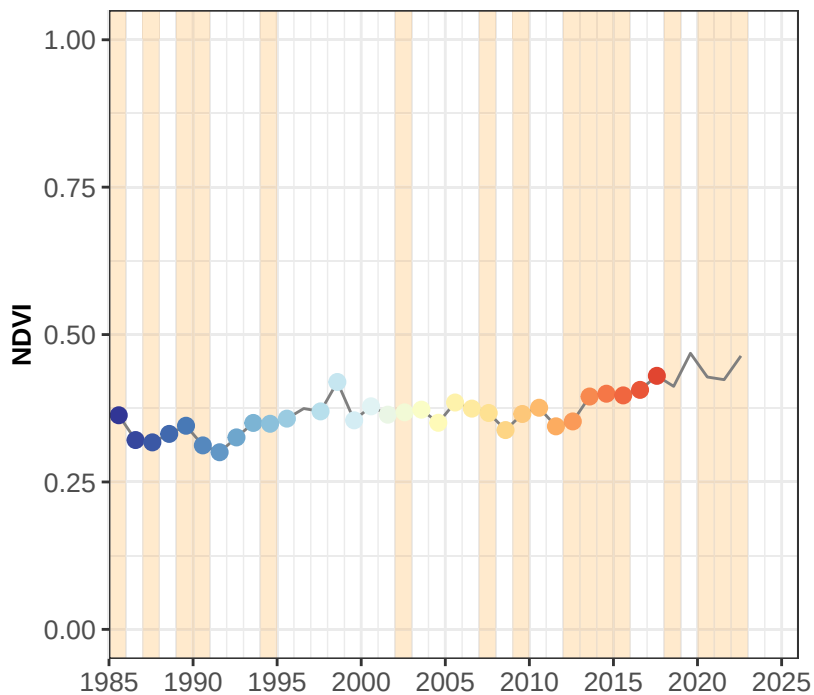


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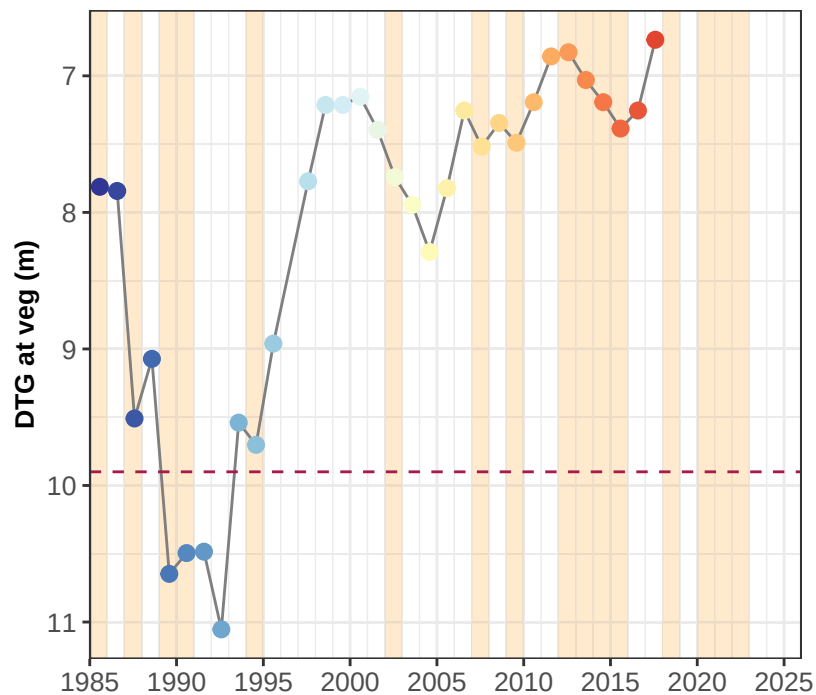


(gdeID: 14356)

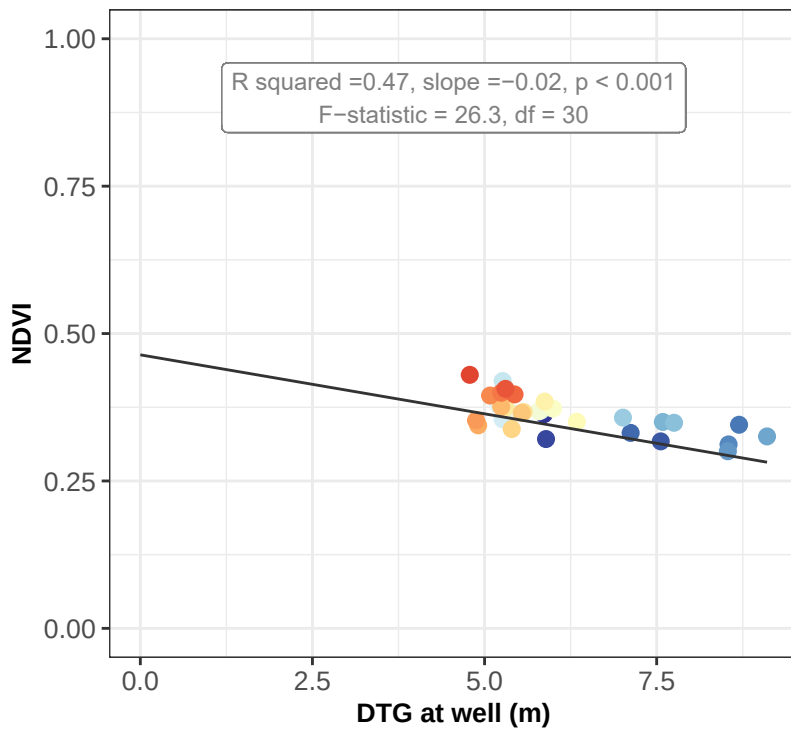
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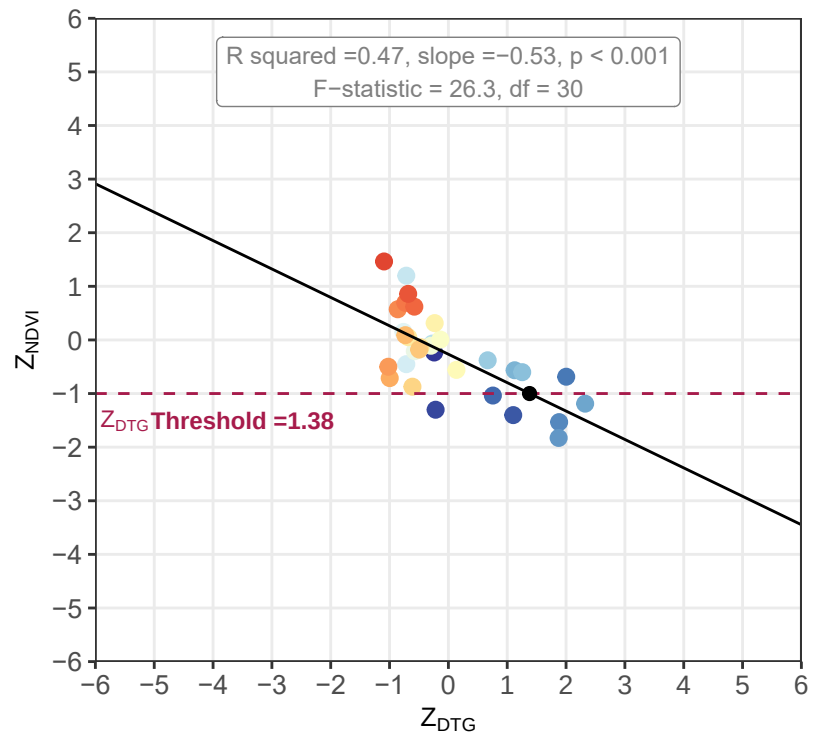
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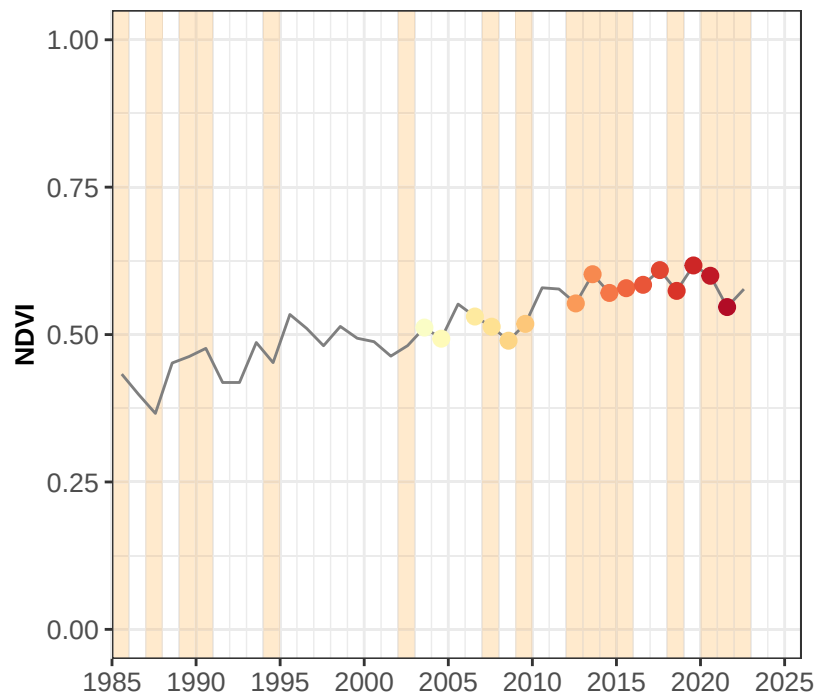


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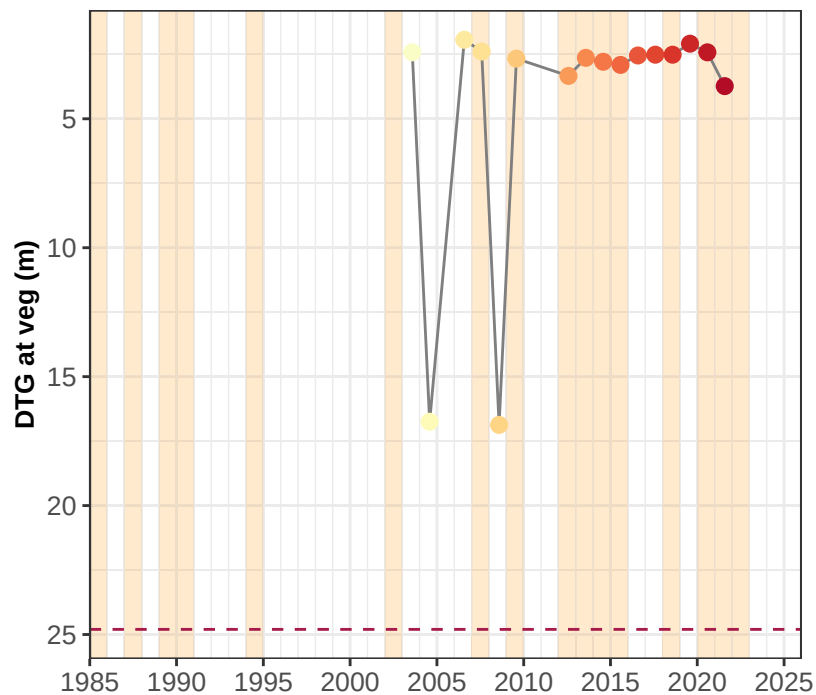


(gdeID: 144783)

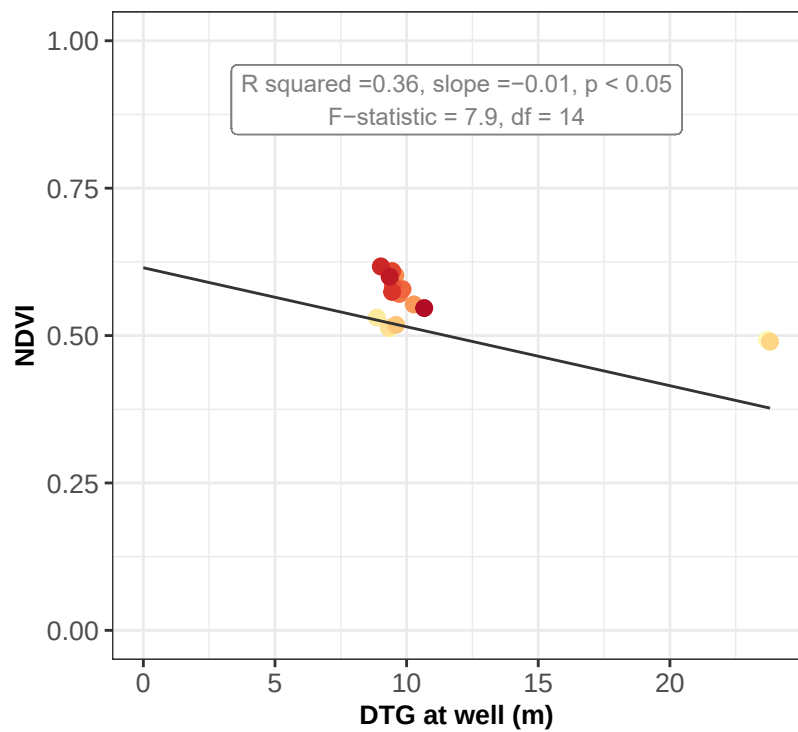
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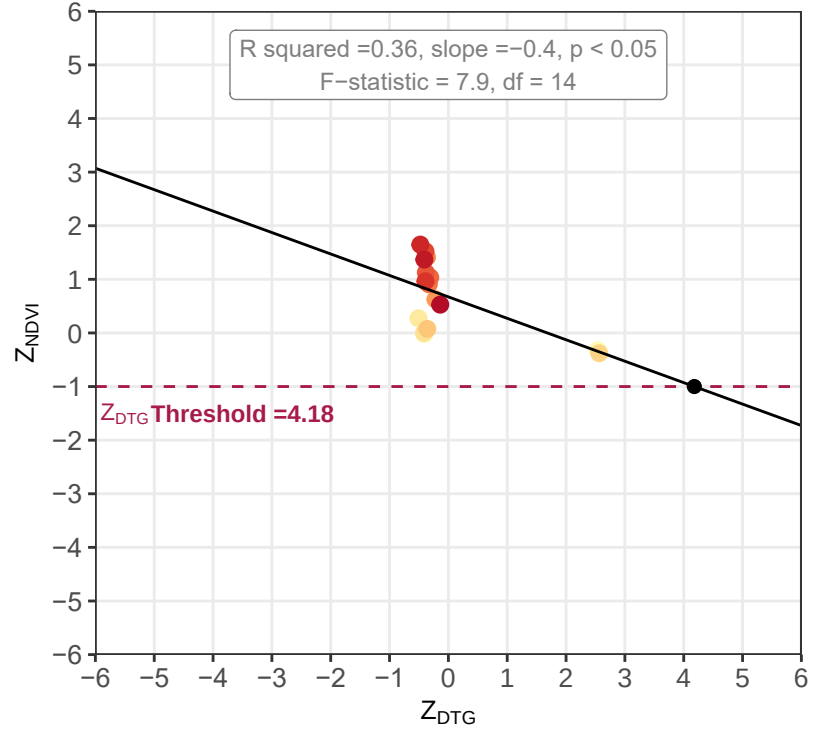
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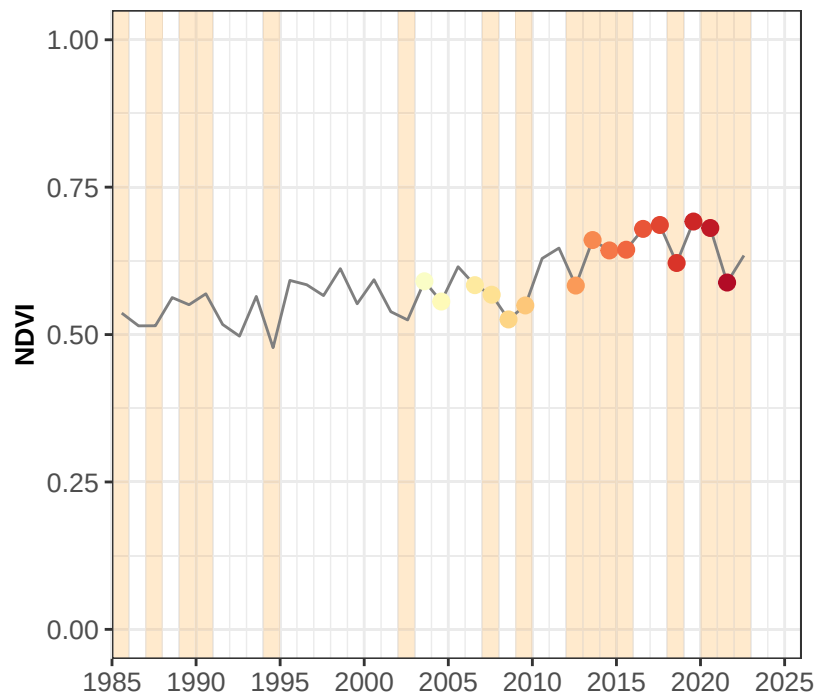


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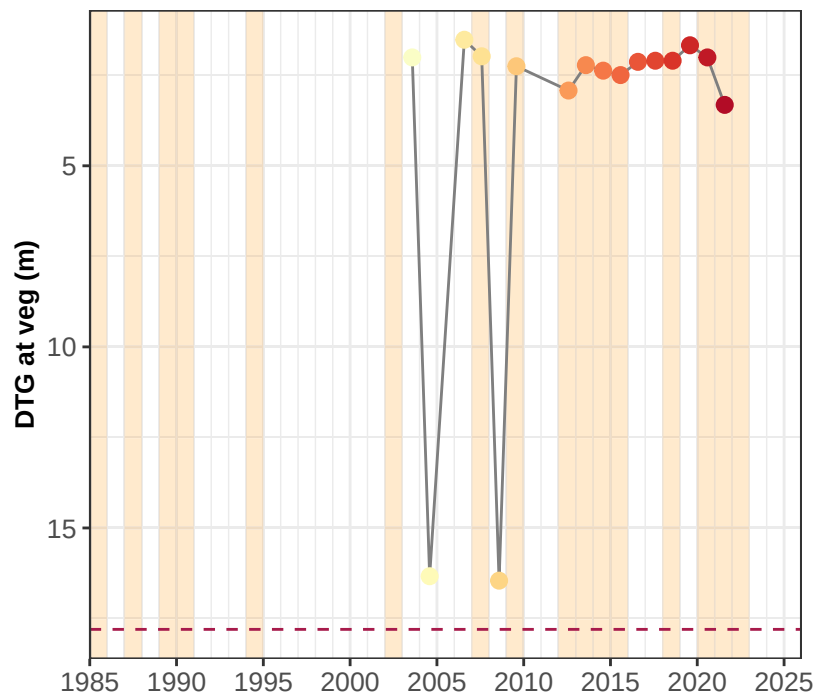


(gdeID: 144786)

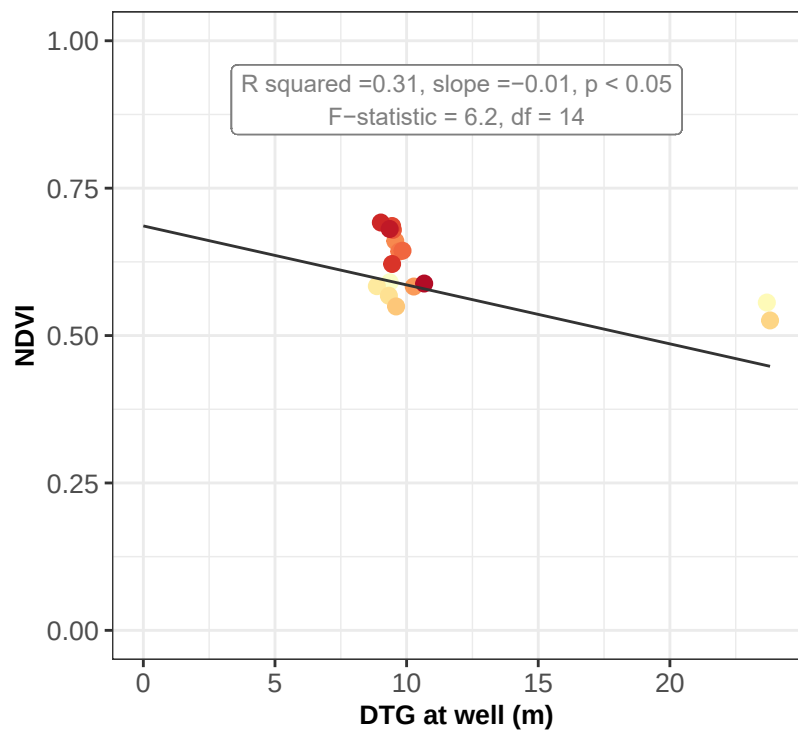
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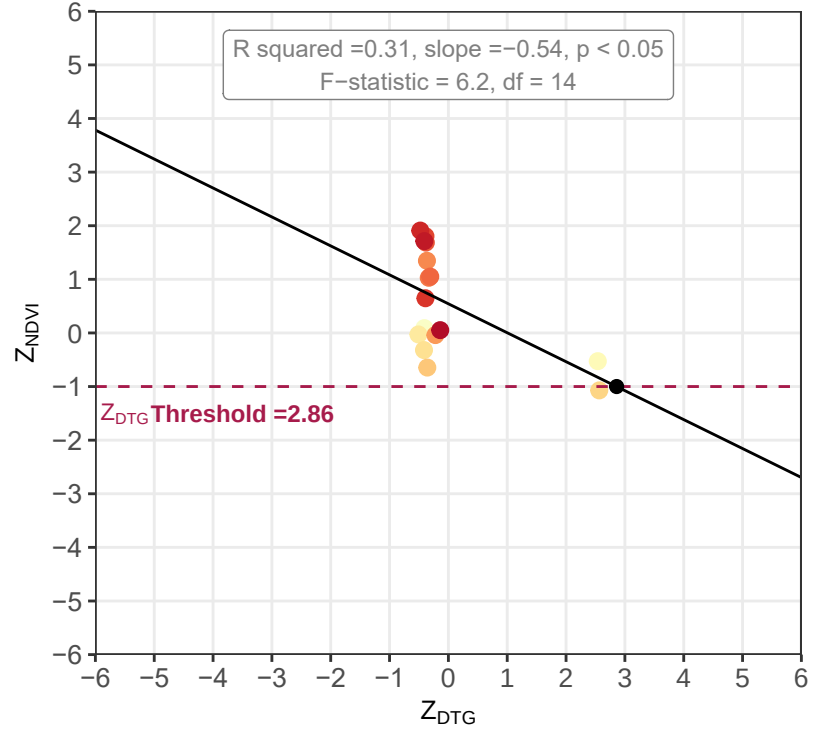
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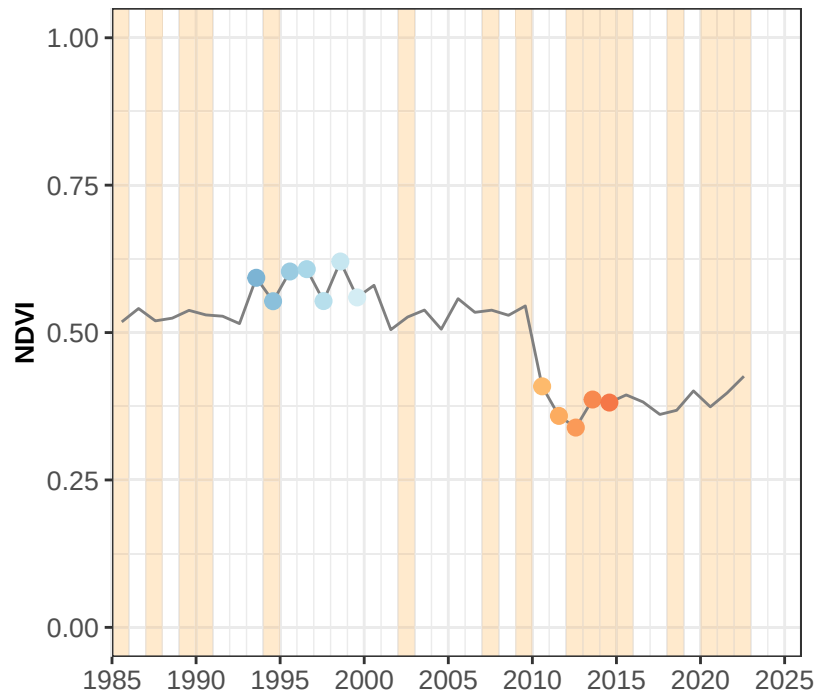


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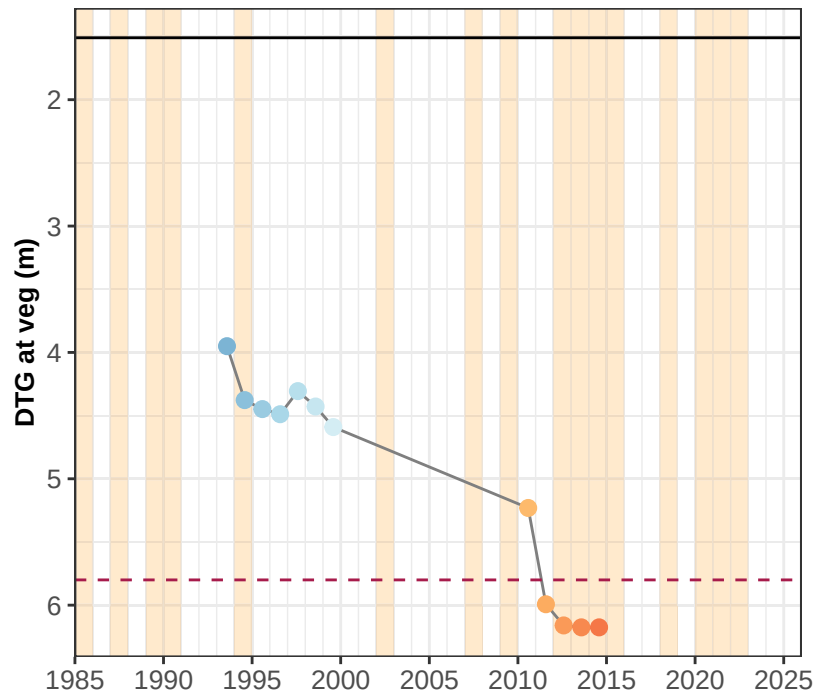


Salix (gdeID: 14549)

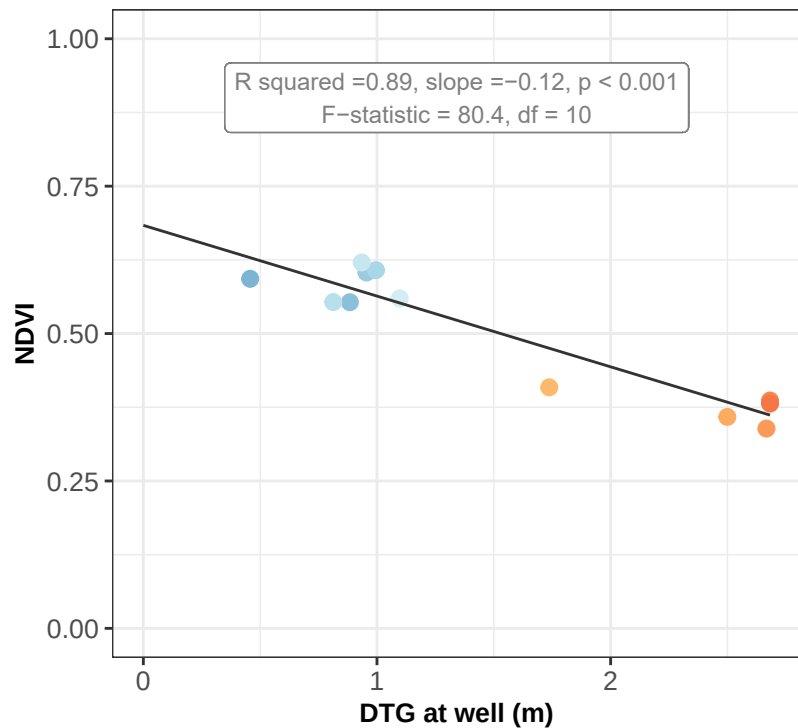
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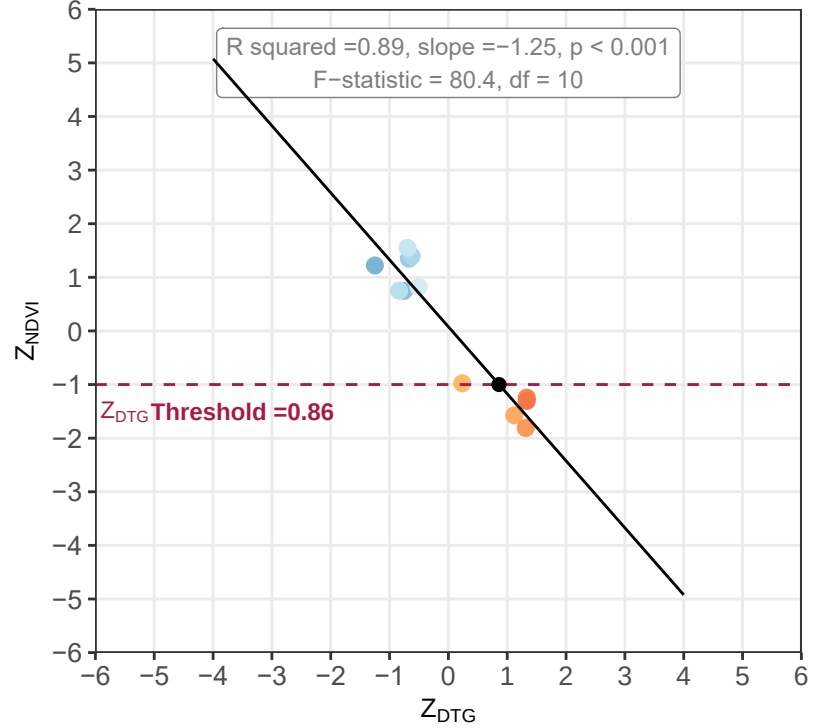
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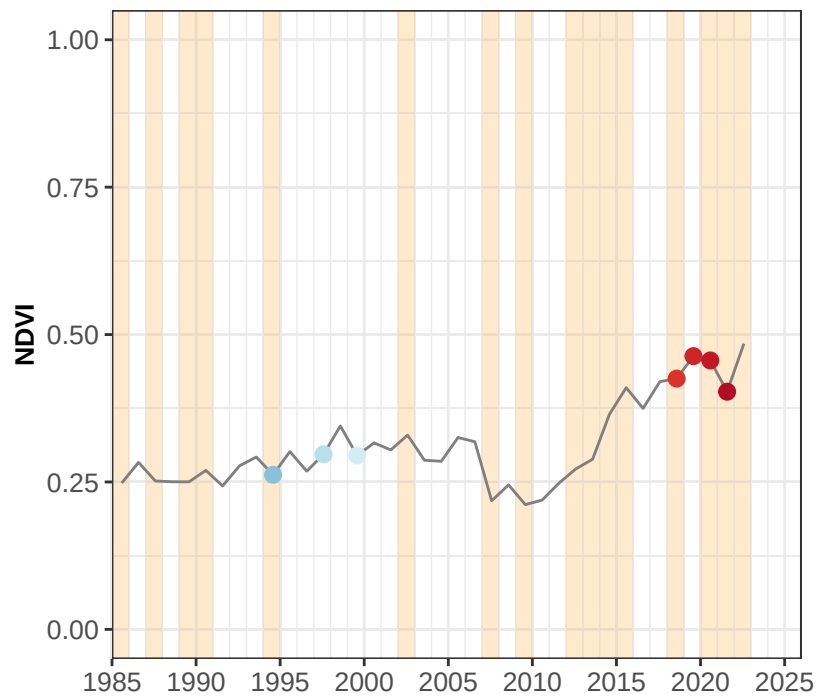


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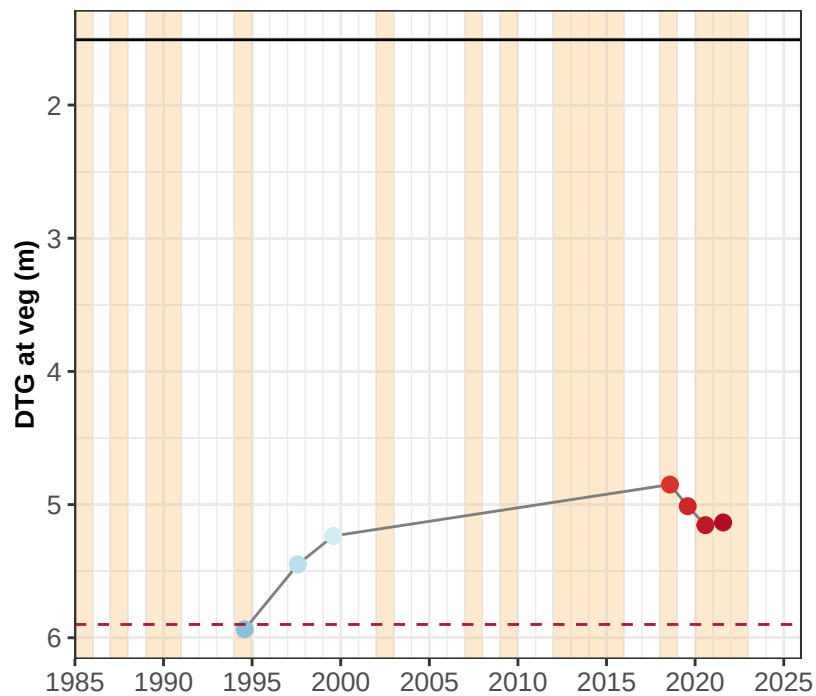


Salix (gdeID: 14582)

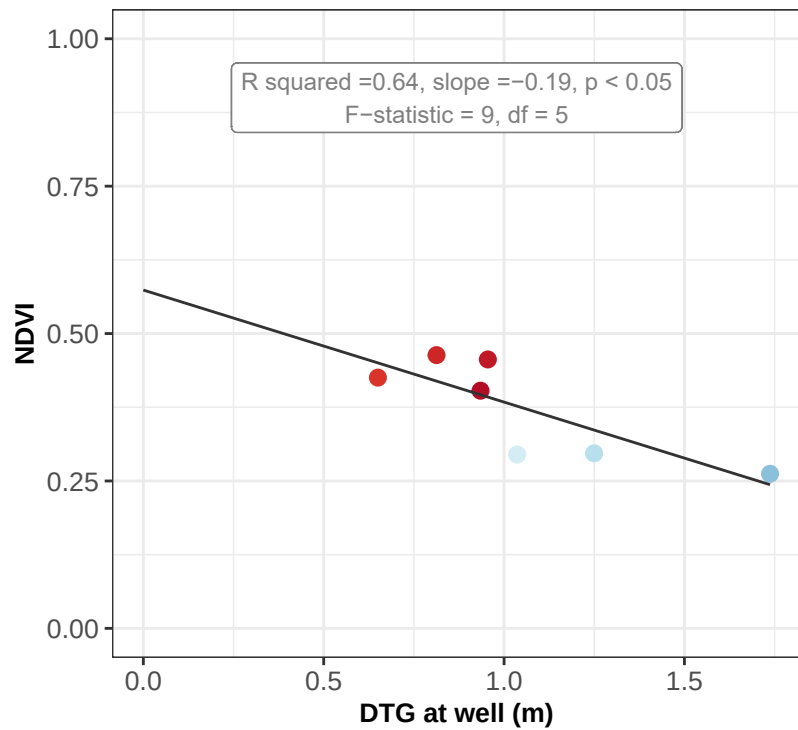
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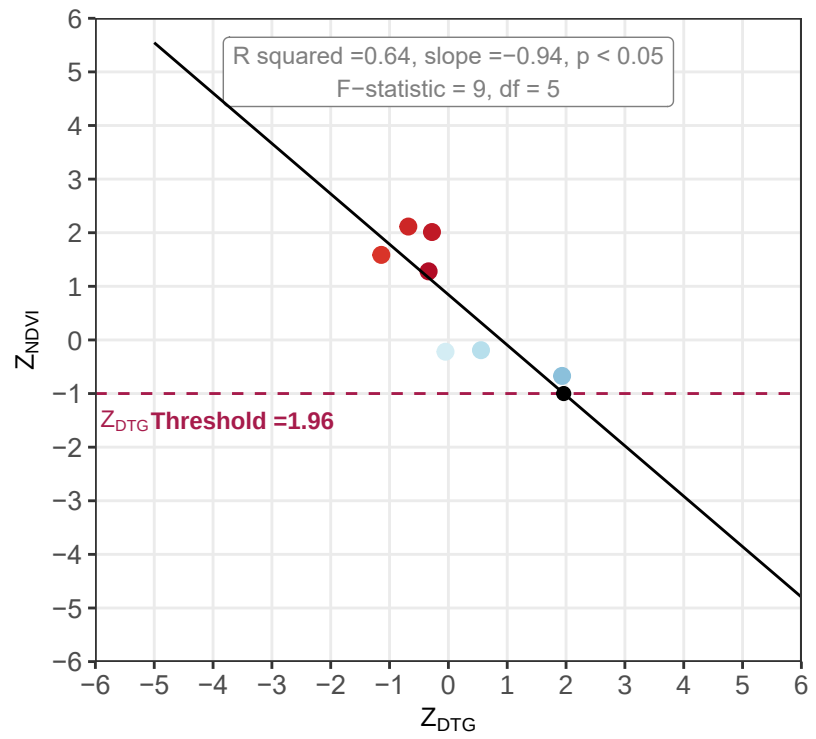
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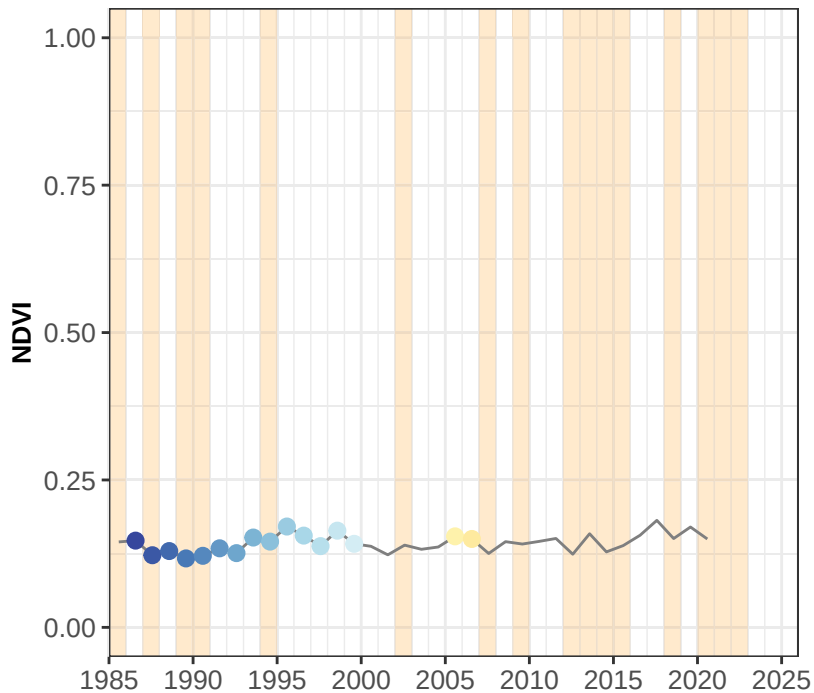


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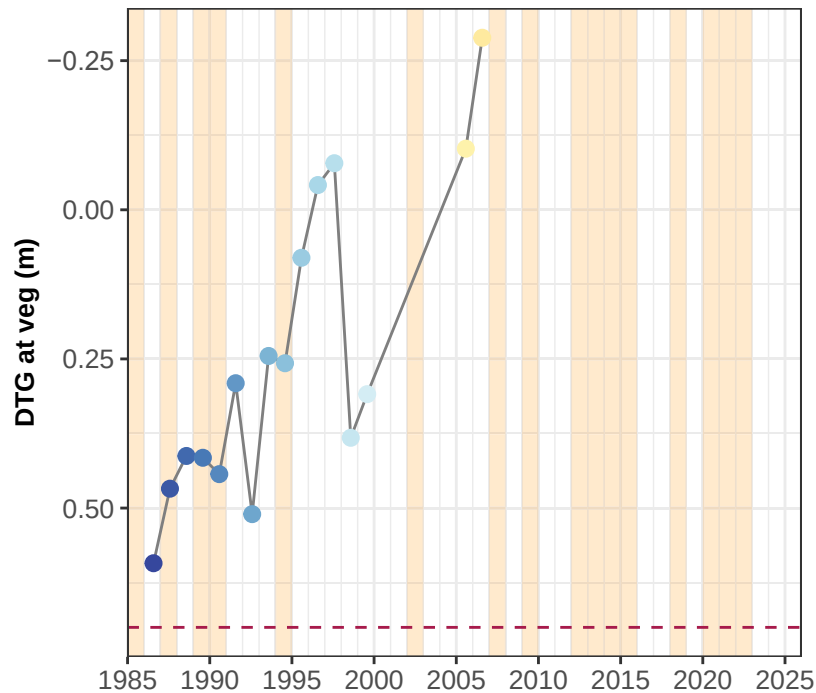


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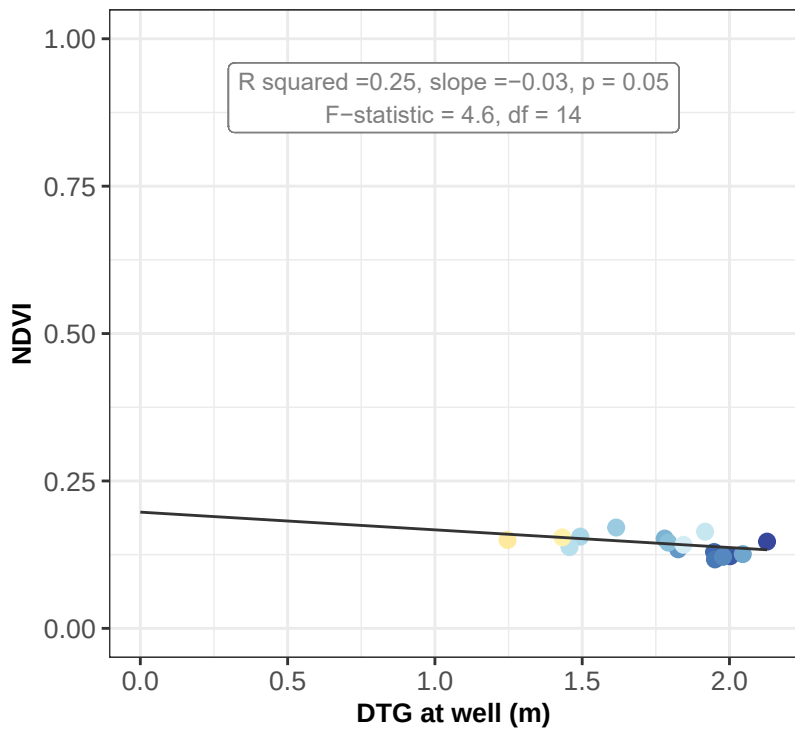
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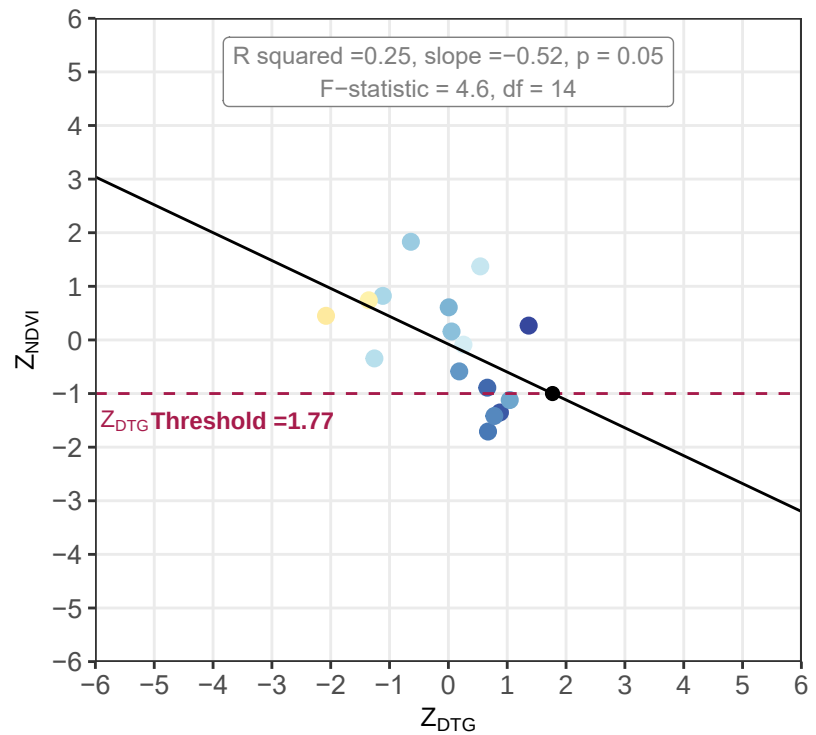
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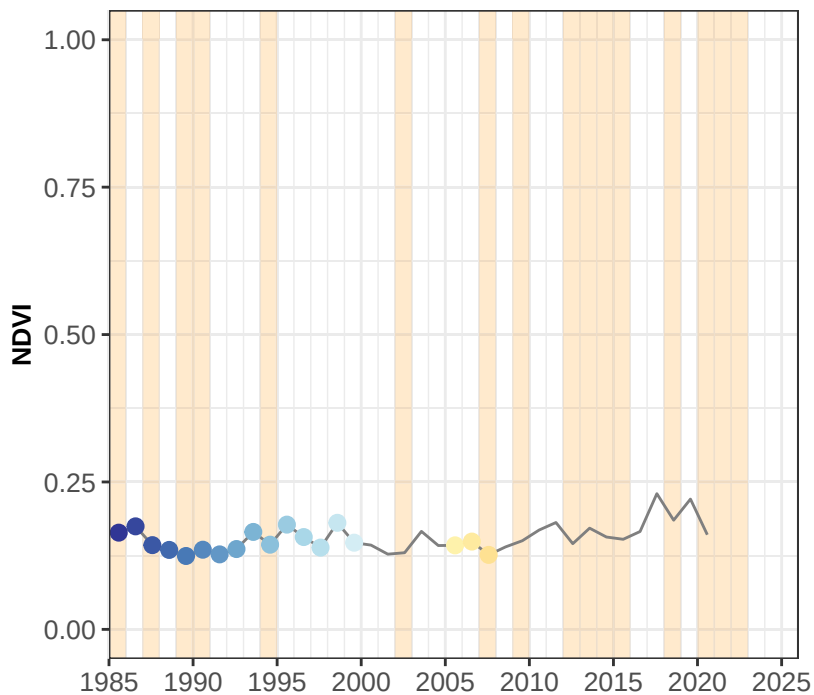


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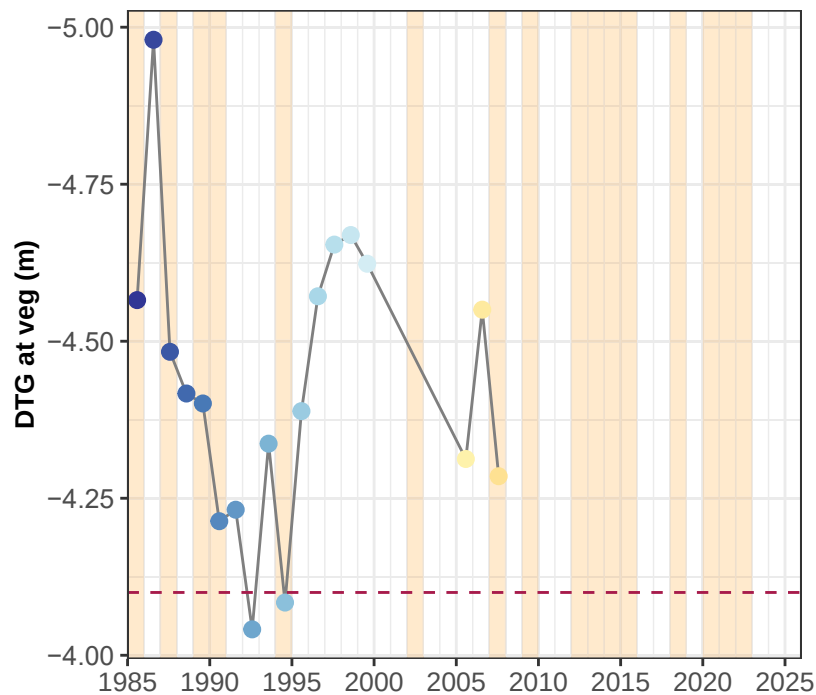


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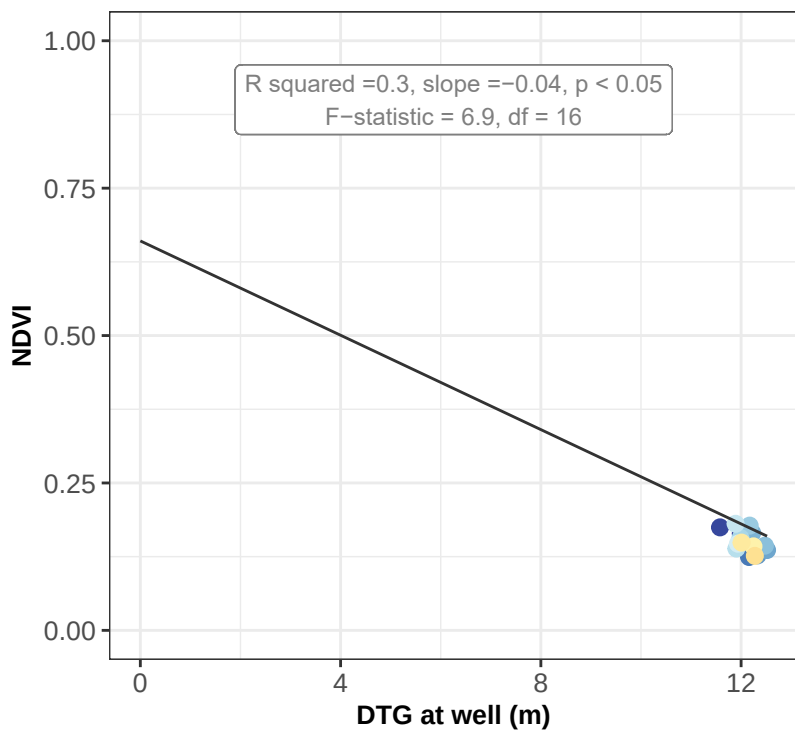
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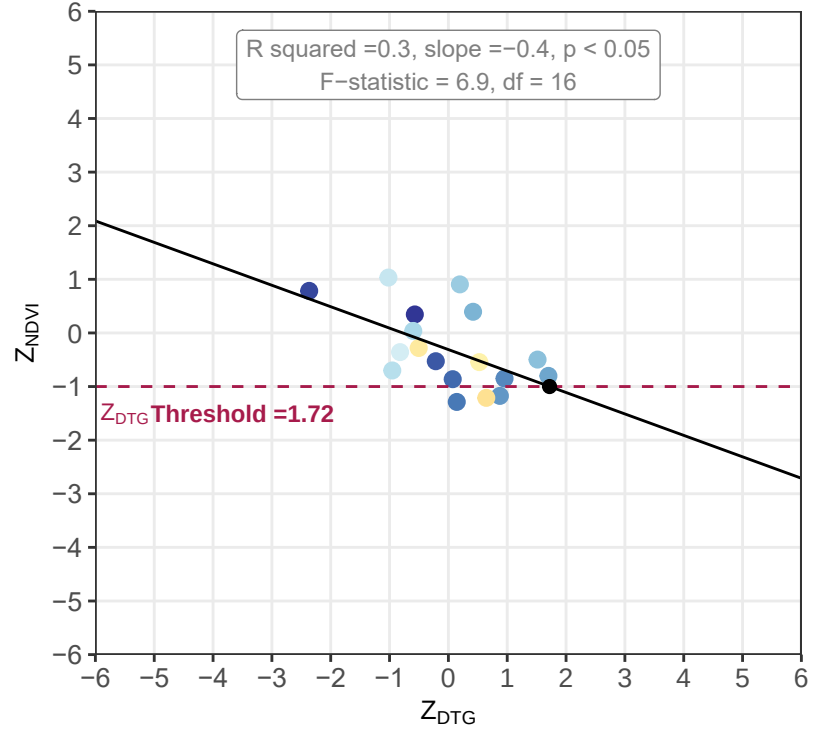
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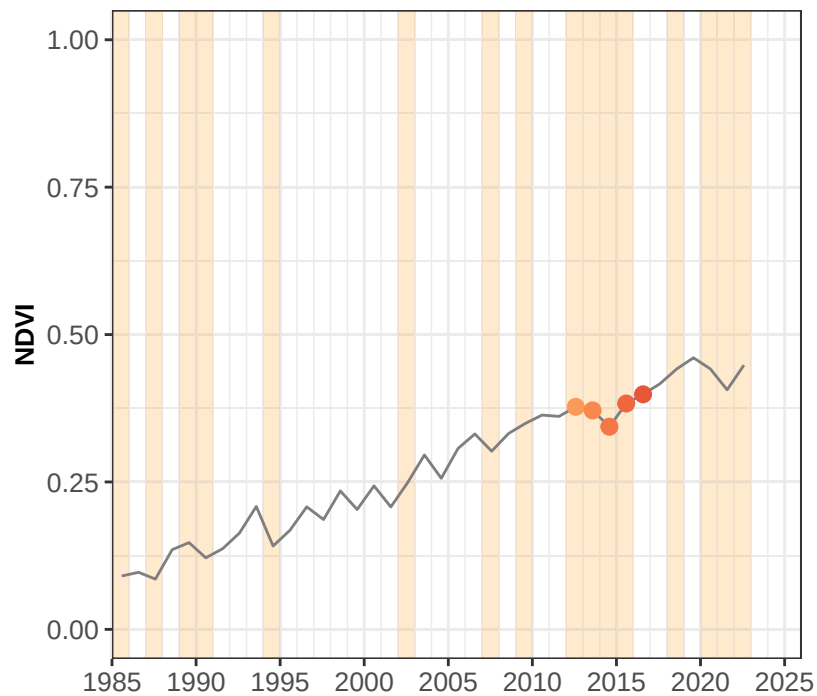


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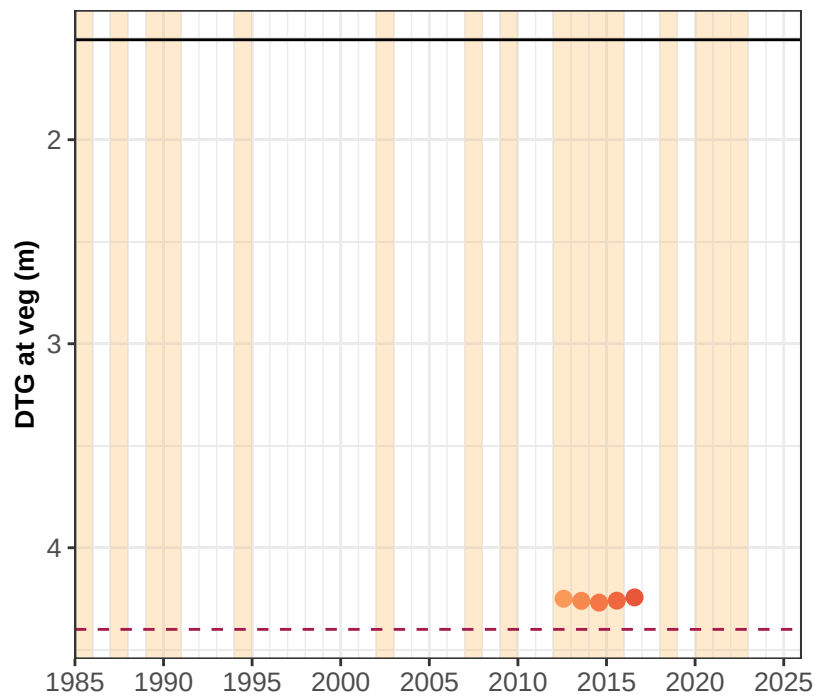


Salix (gdeID: 14639)

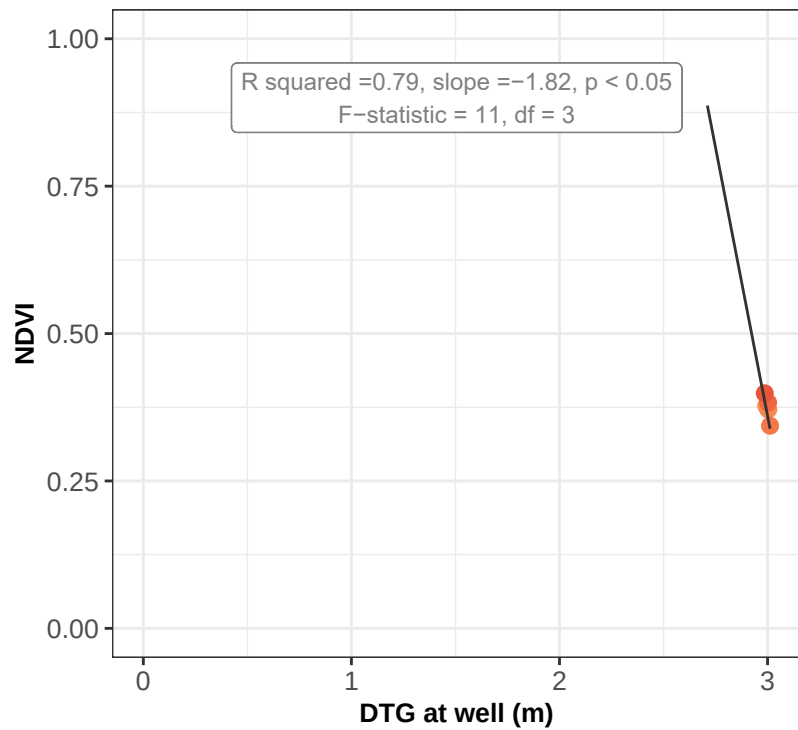
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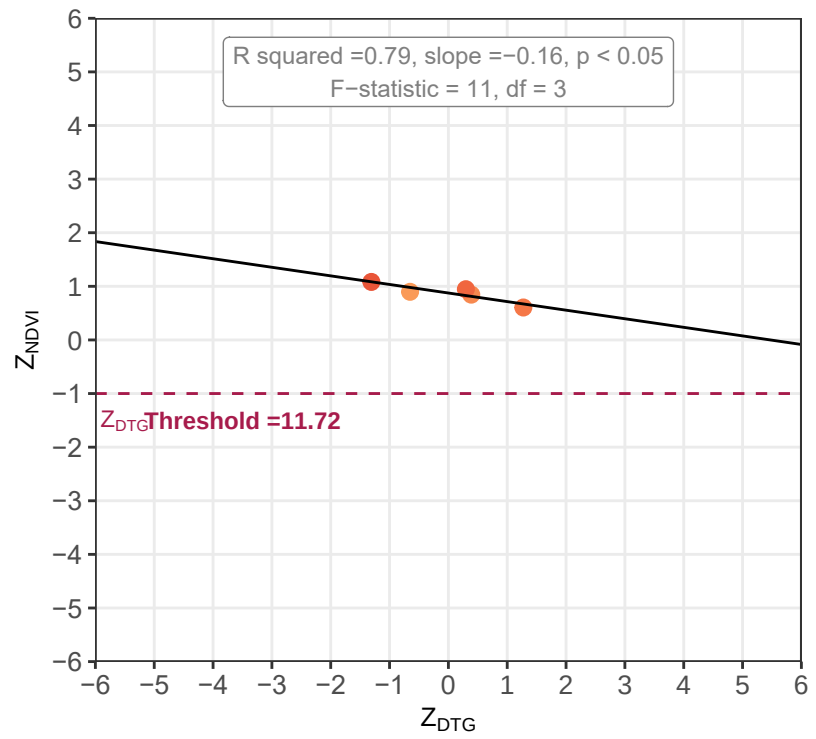
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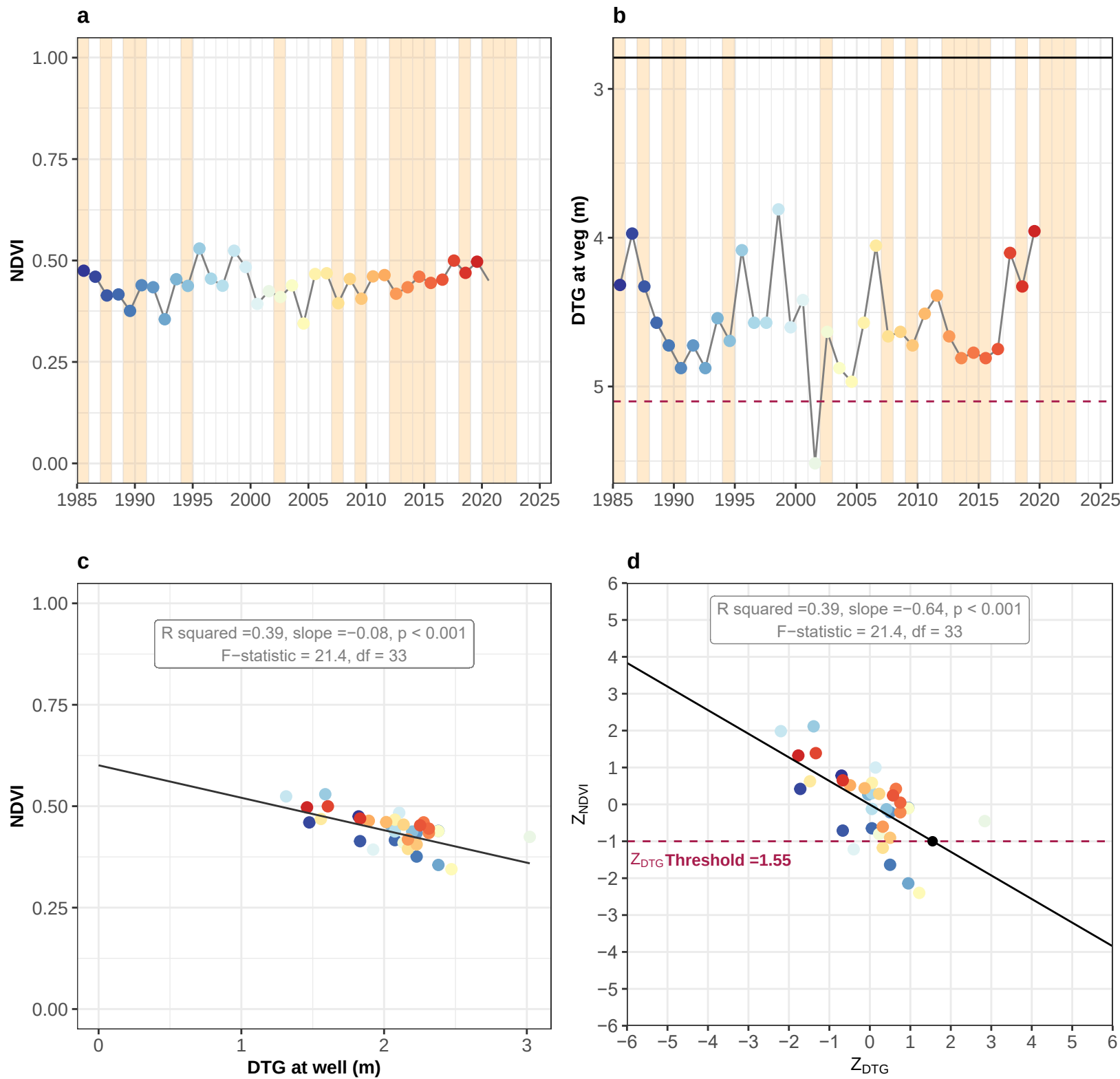
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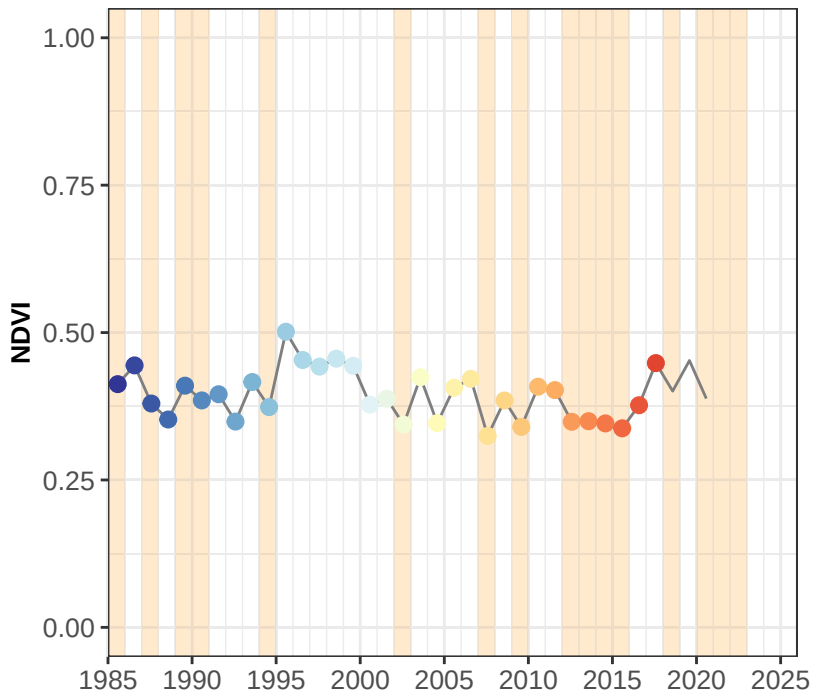


Populus (gdeID: 147072)

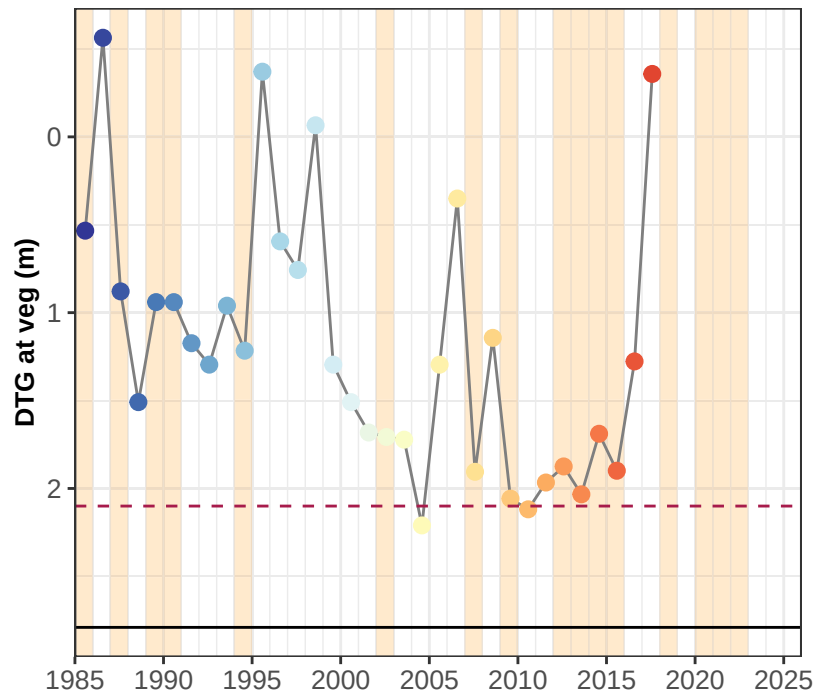


Populus (gdeID: 147124)

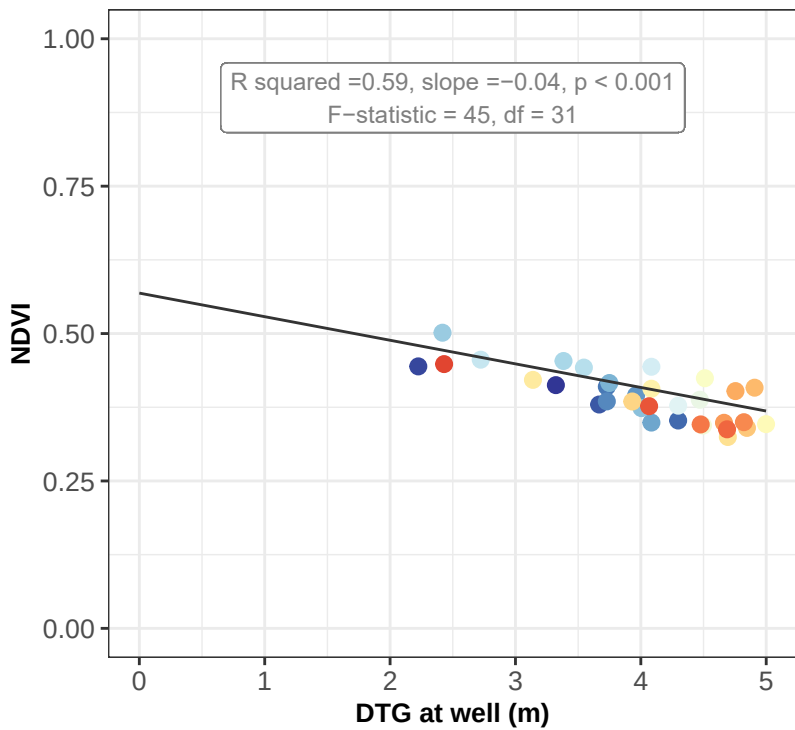
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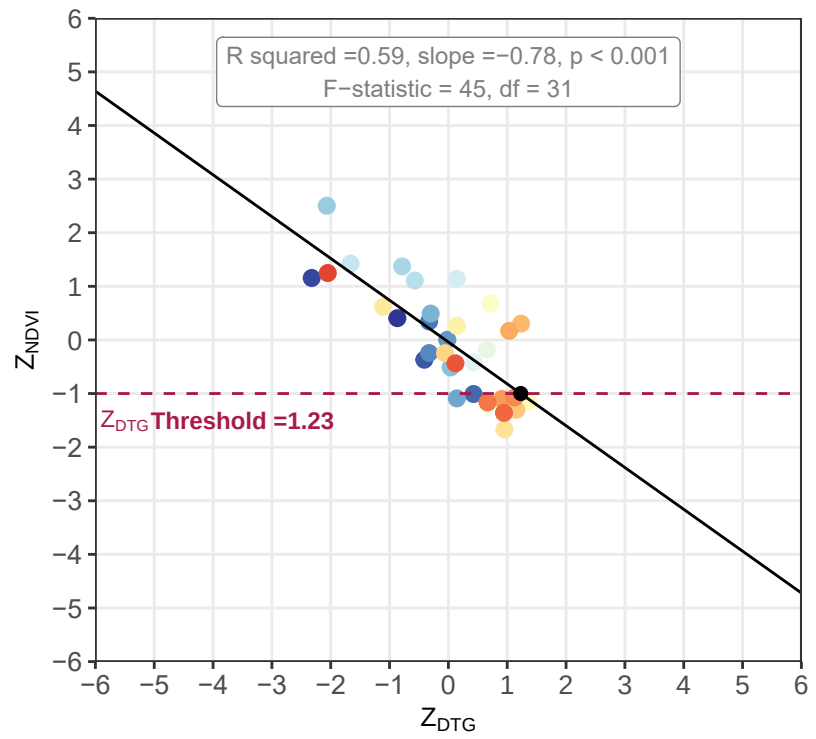
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c

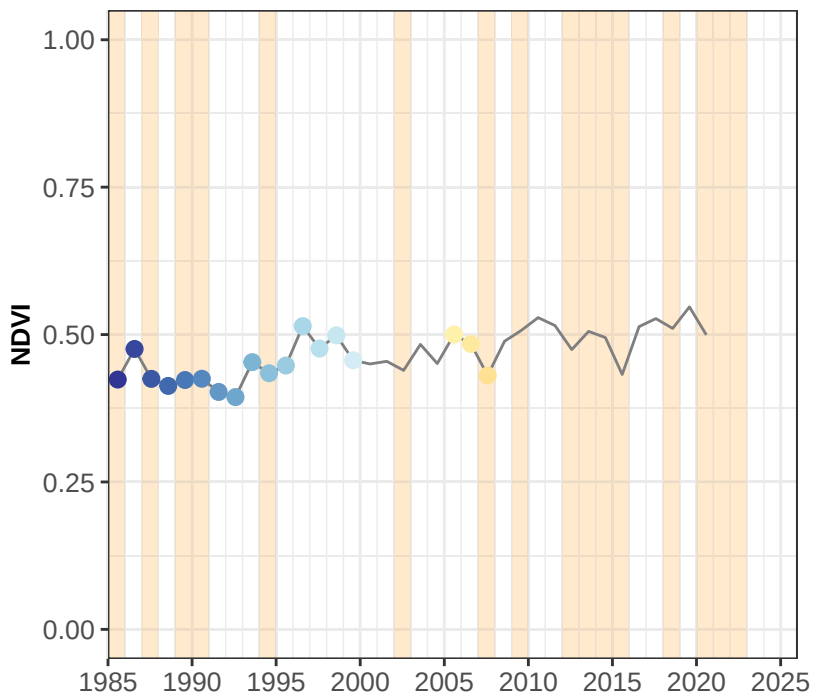


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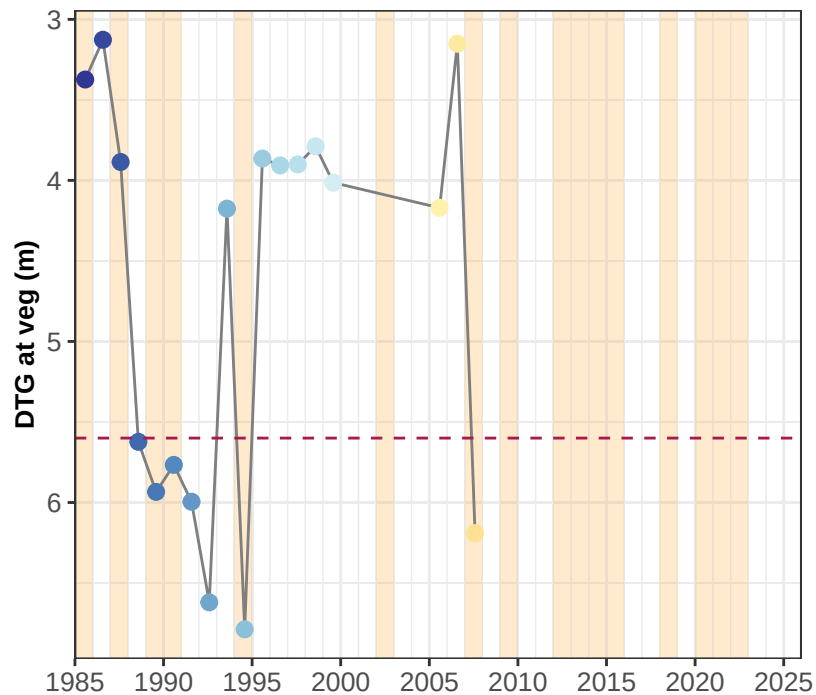


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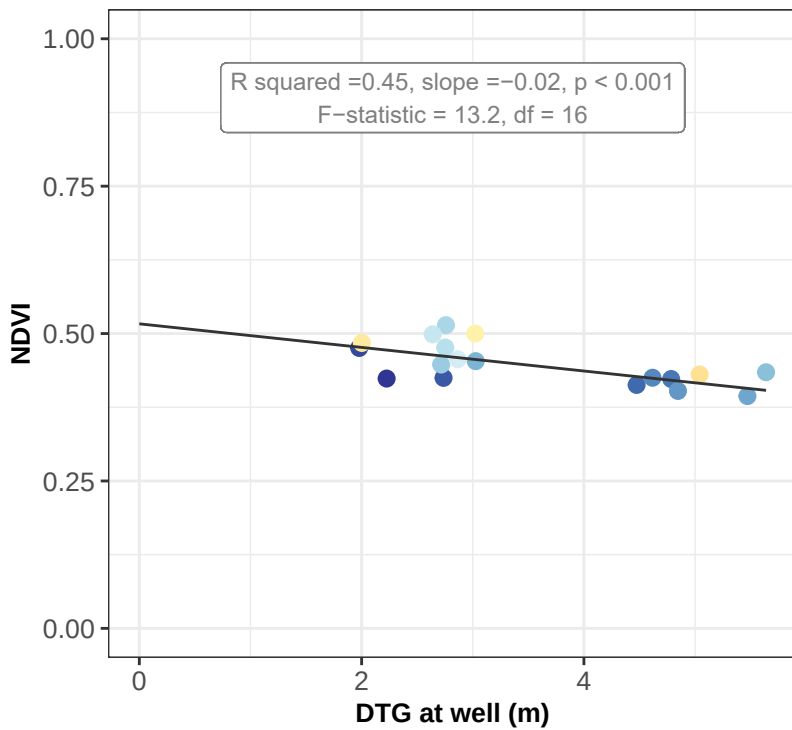
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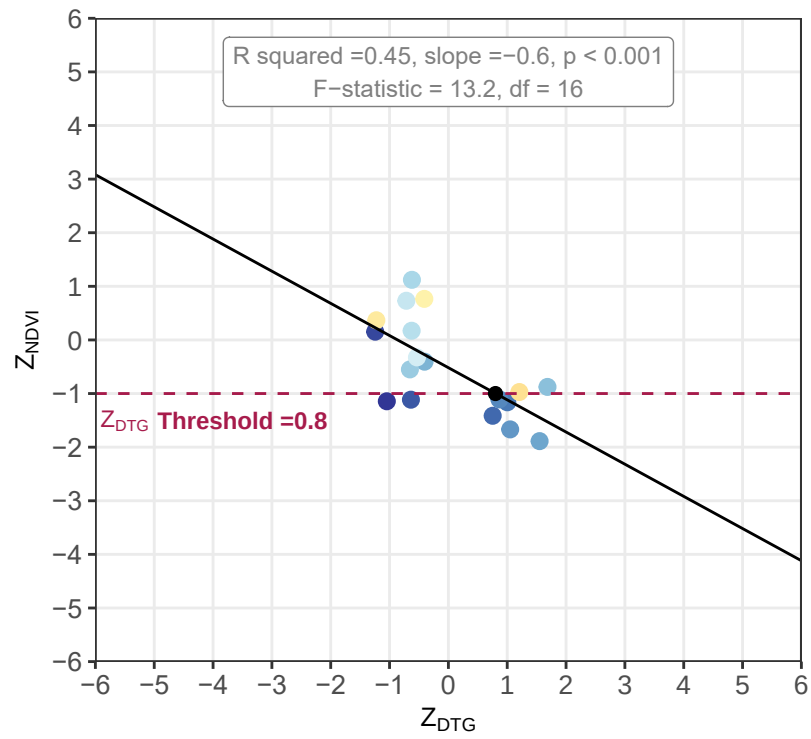
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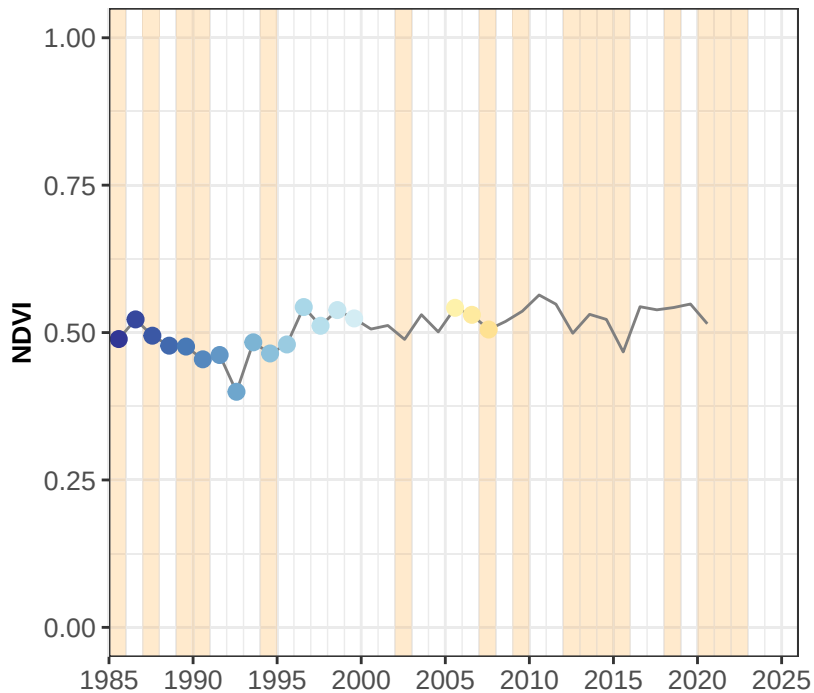


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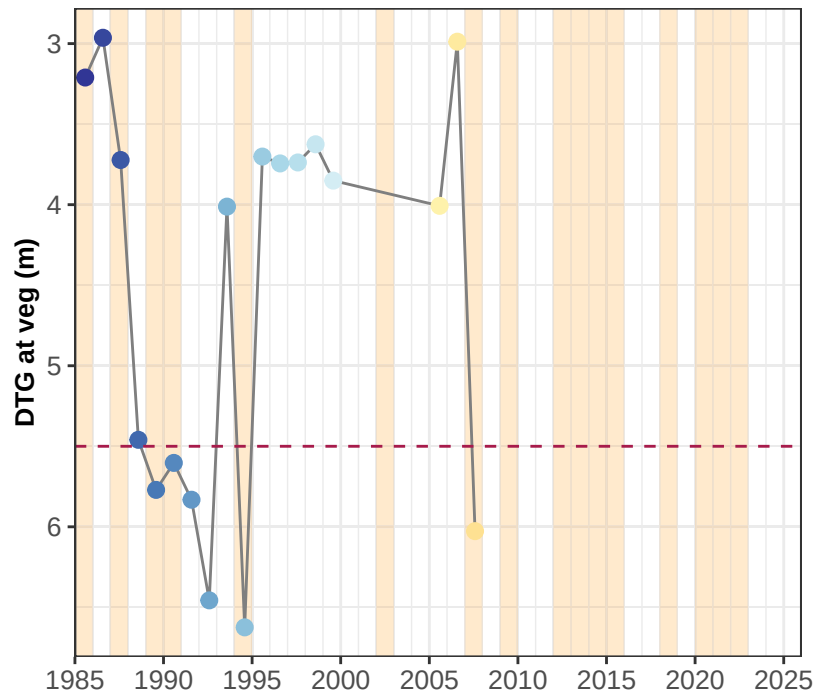


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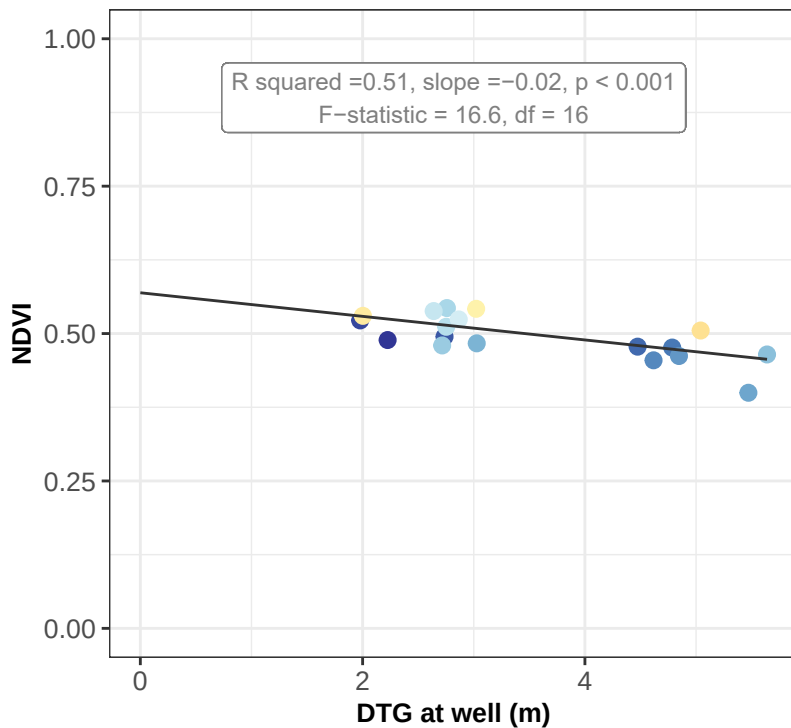
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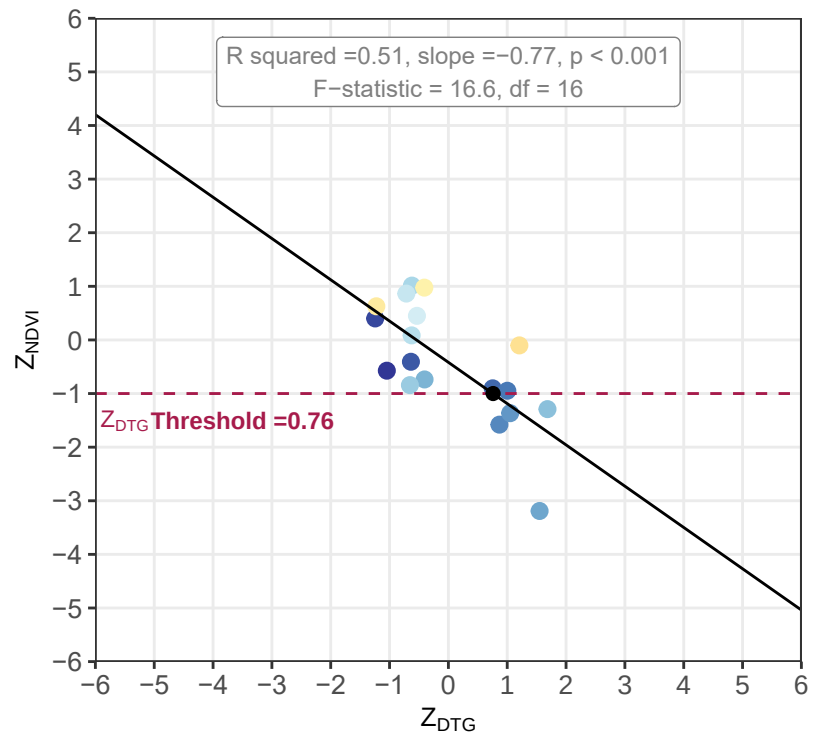
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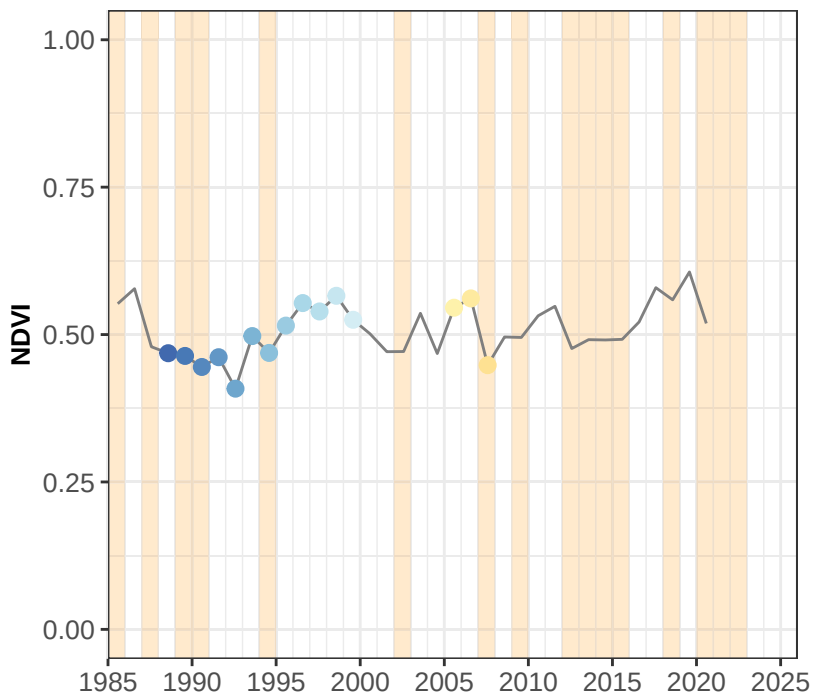


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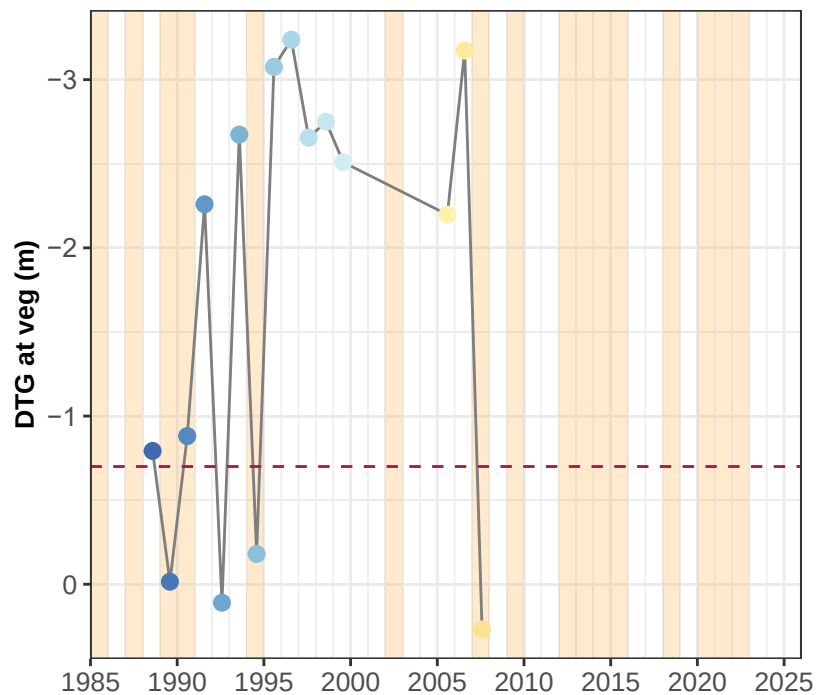


(gdeID: 147512)

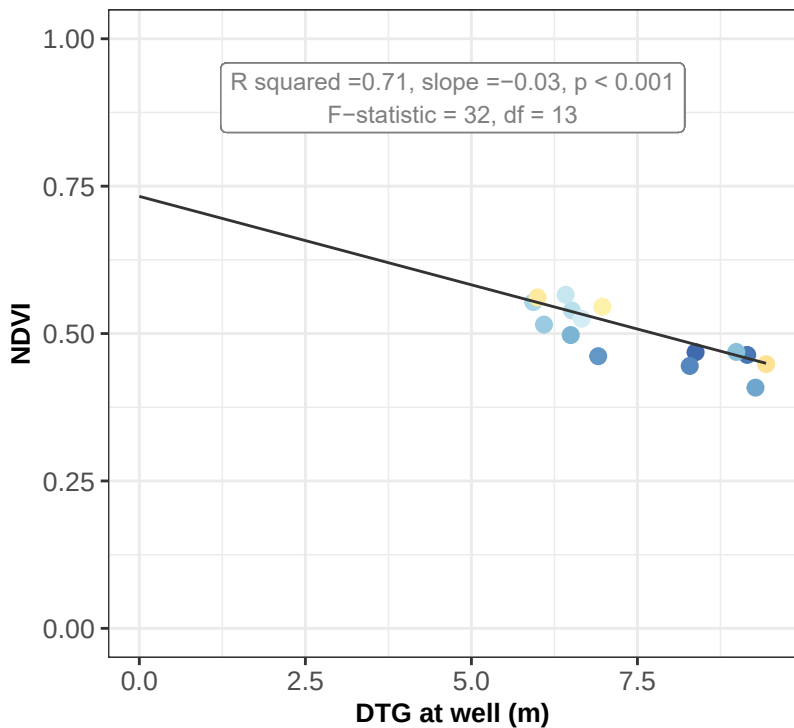
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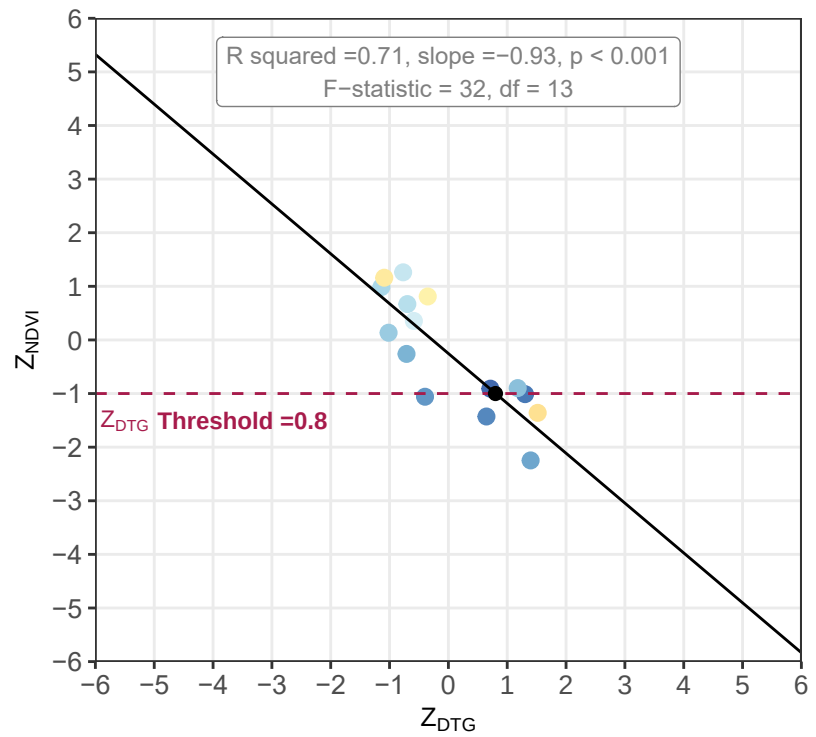
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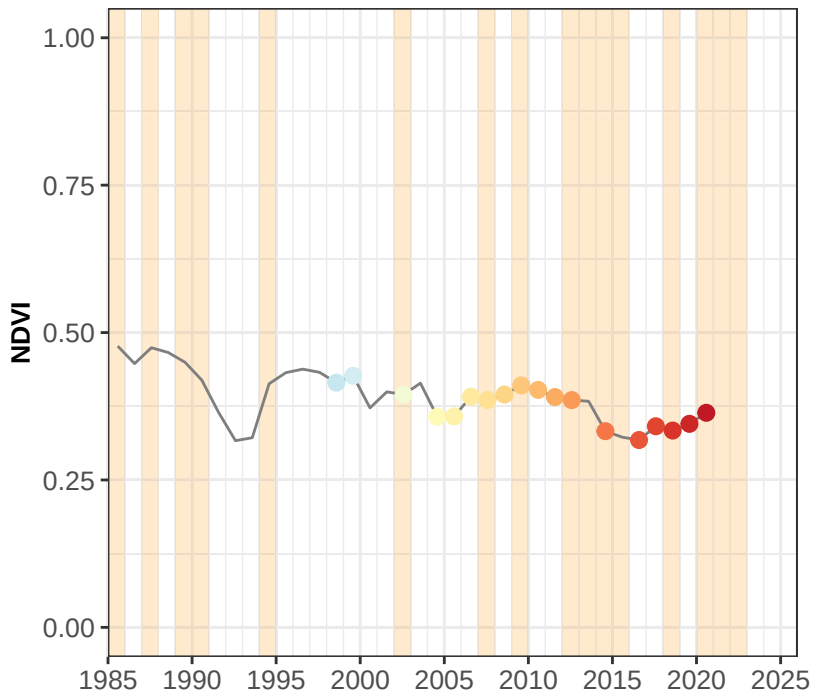


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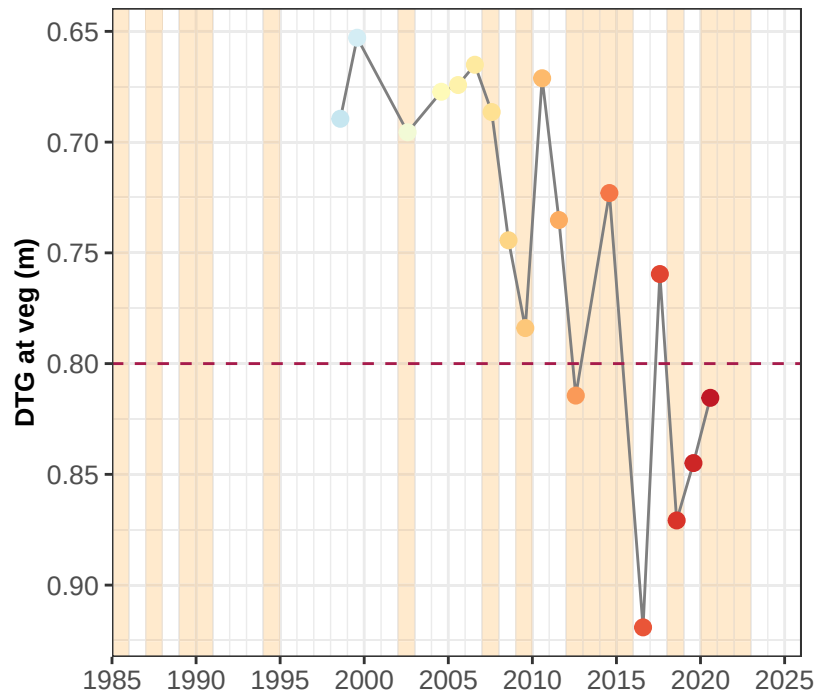


Typha (gdeID: 147583)

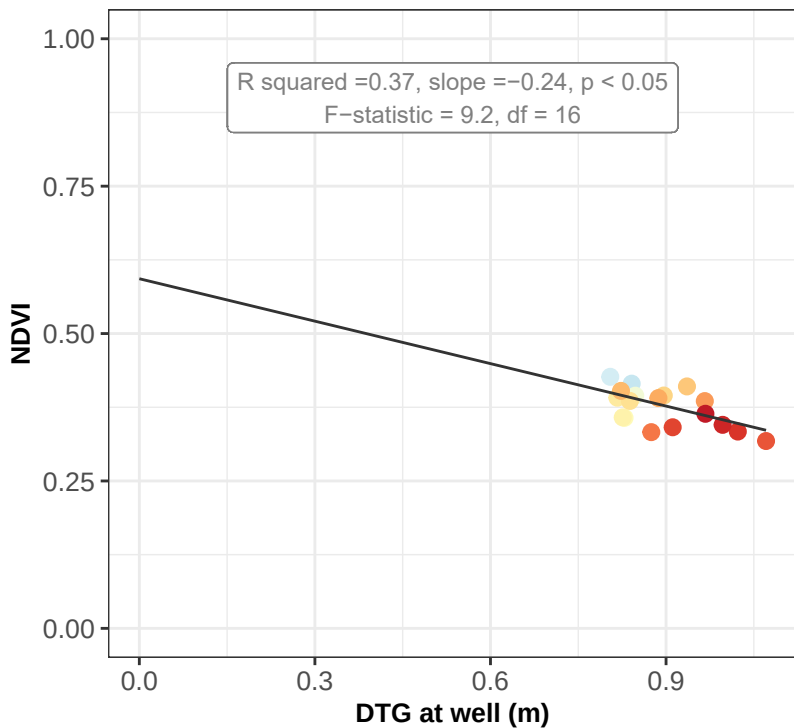
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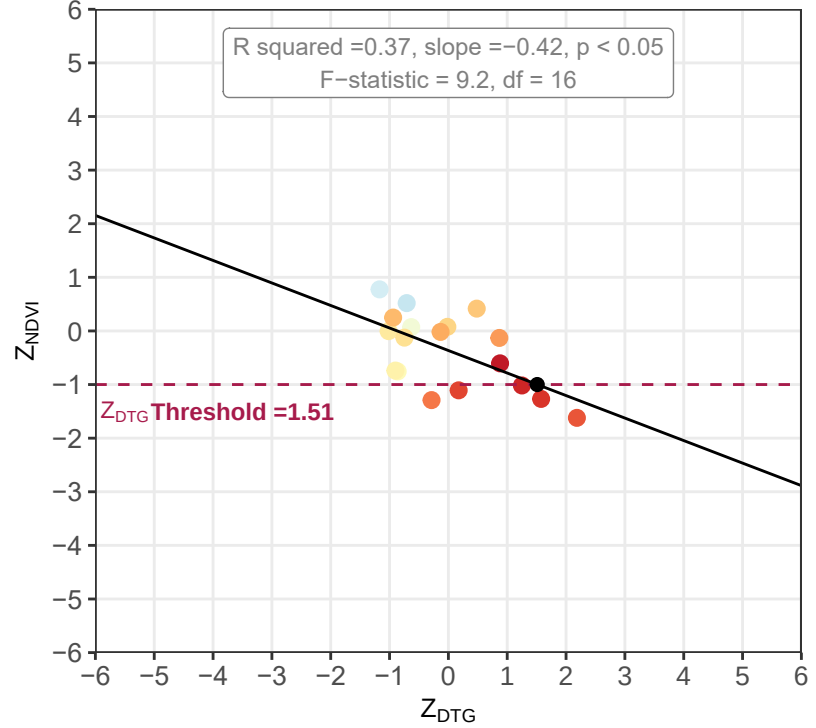
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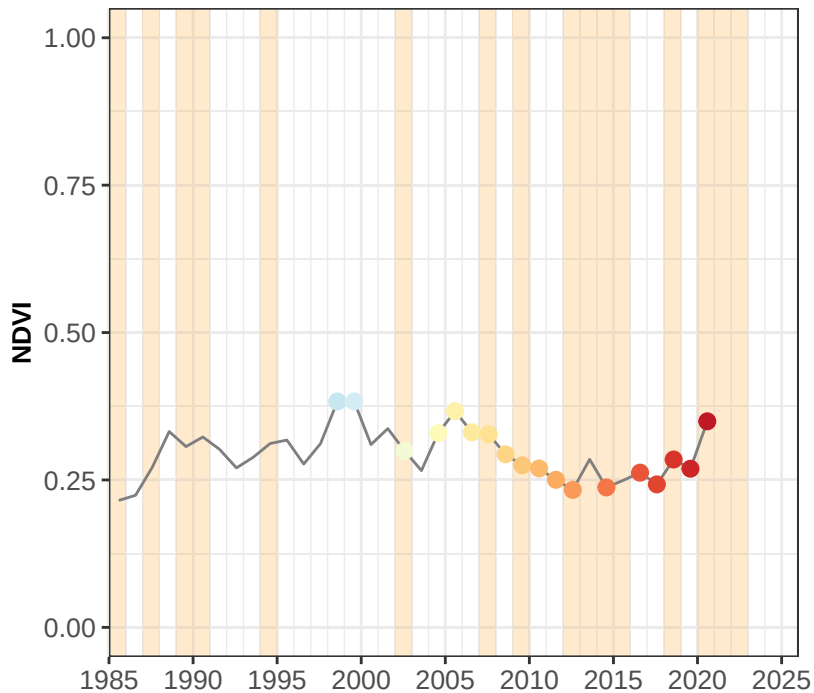


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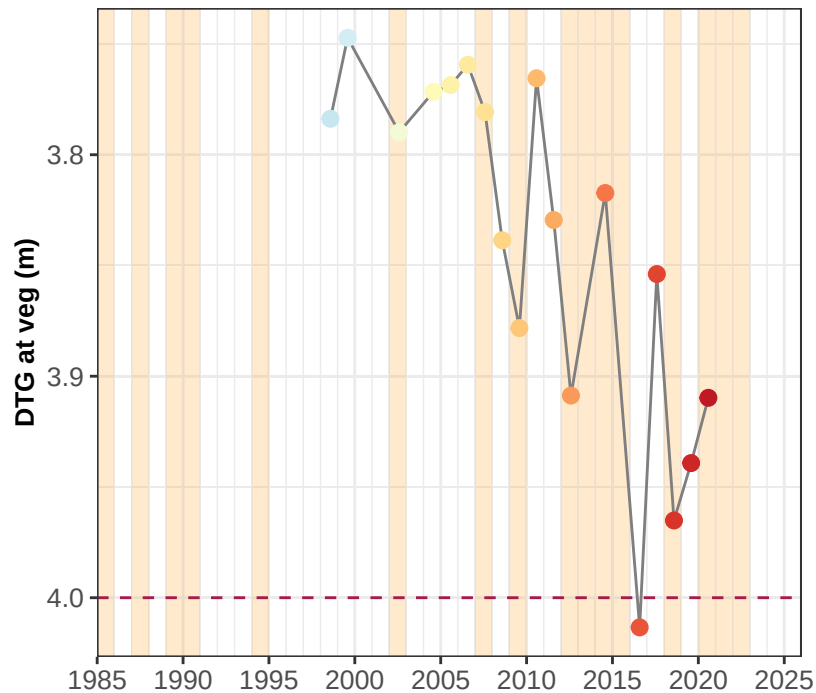


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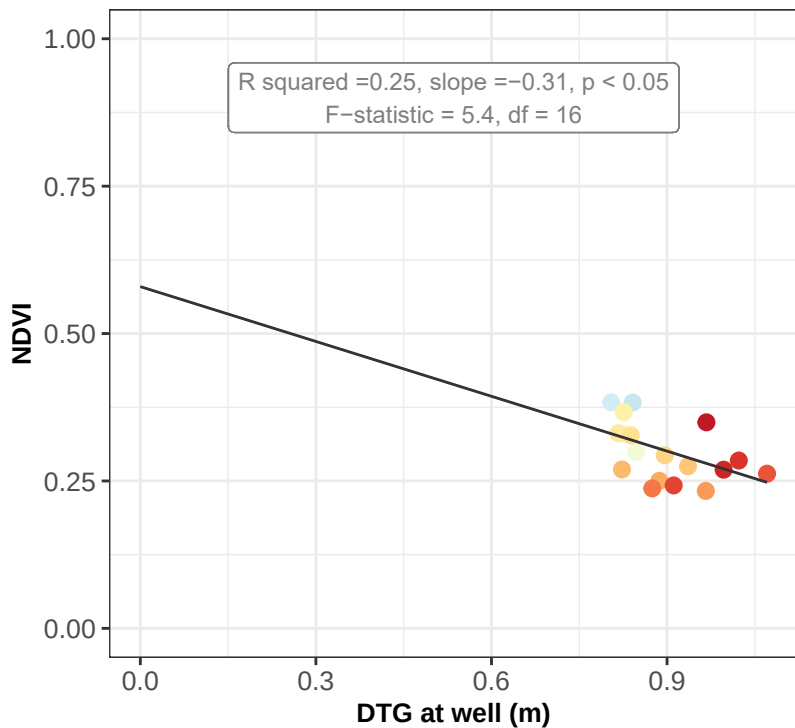
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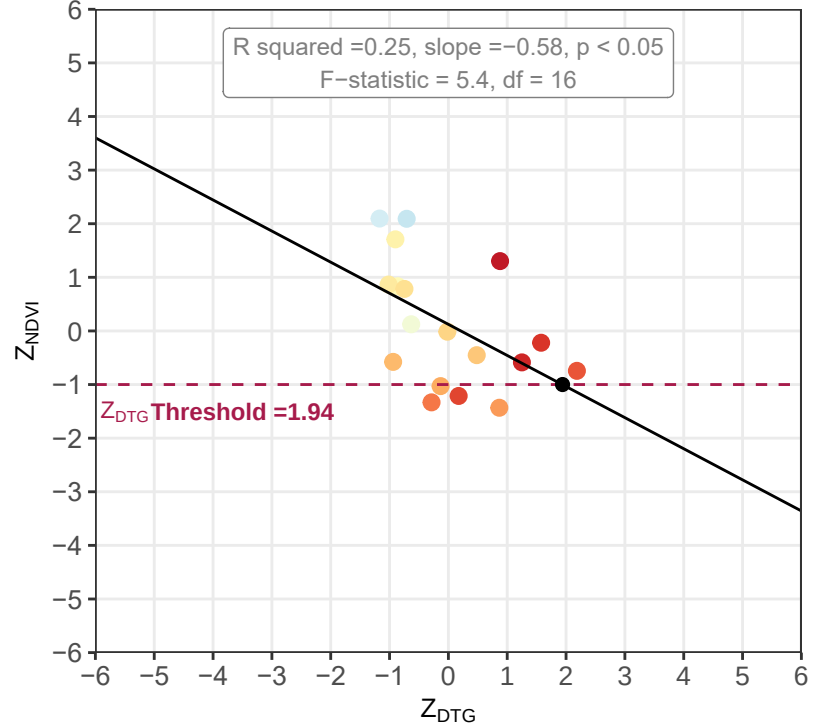
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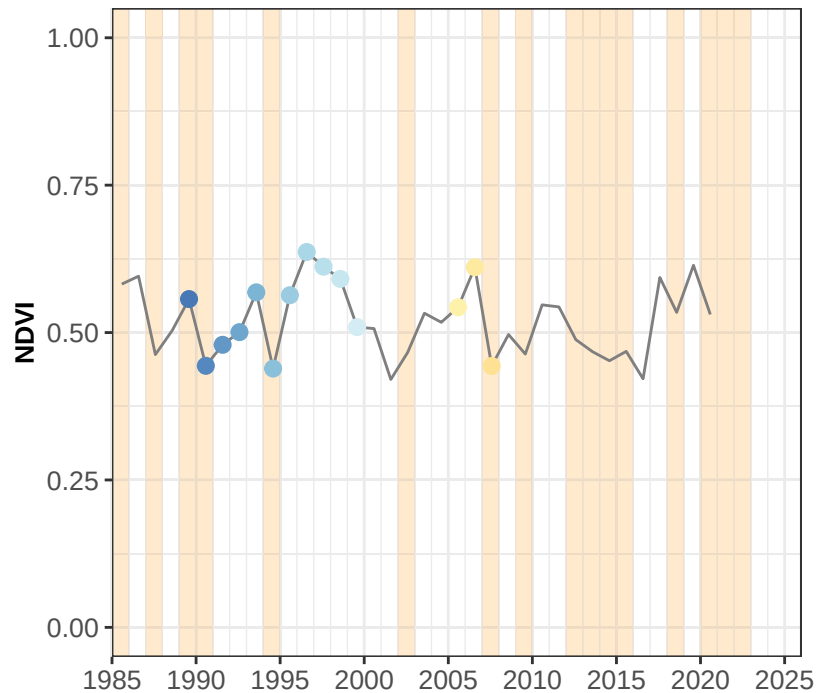


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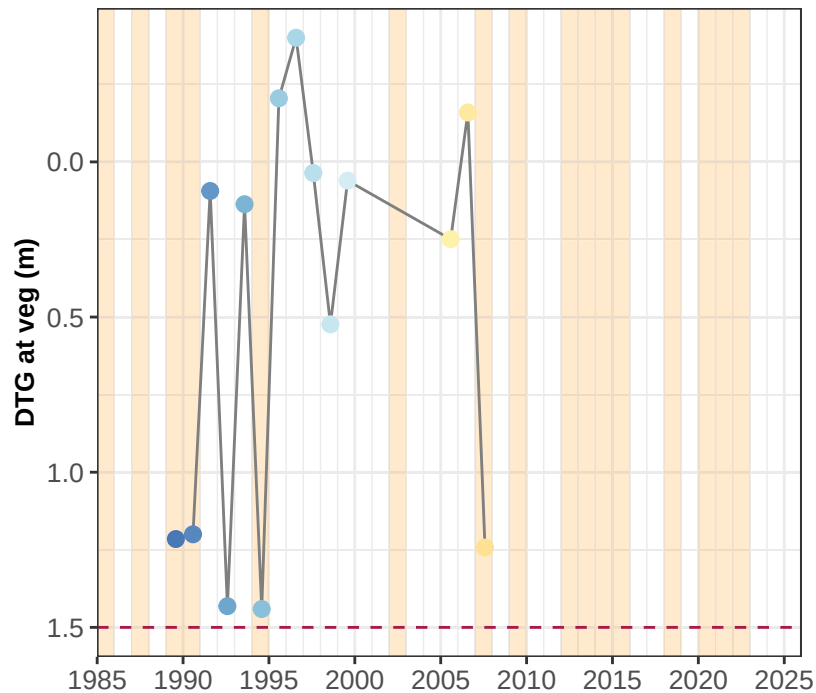


Flooded Veg (gdeID: 147663)

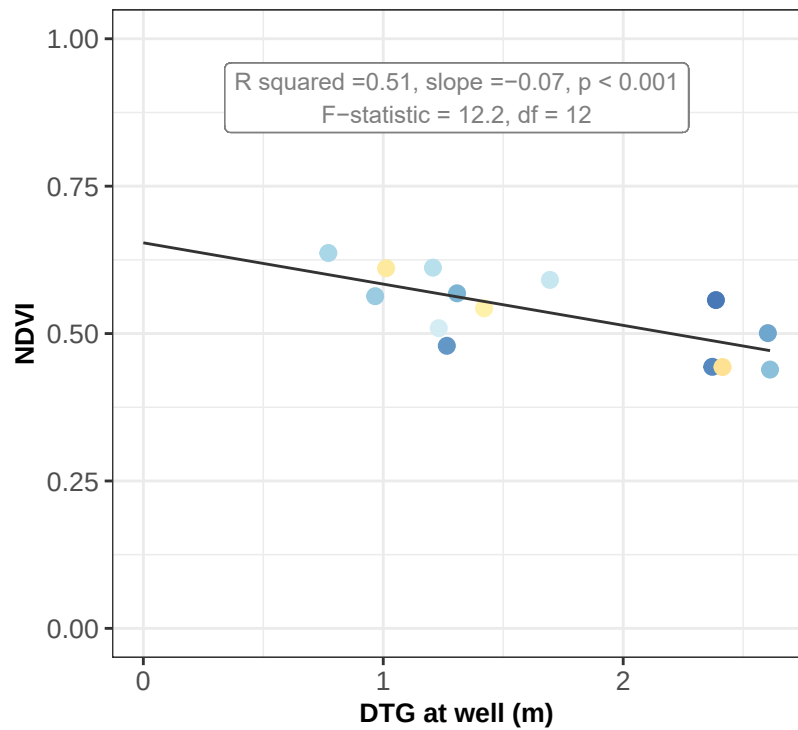
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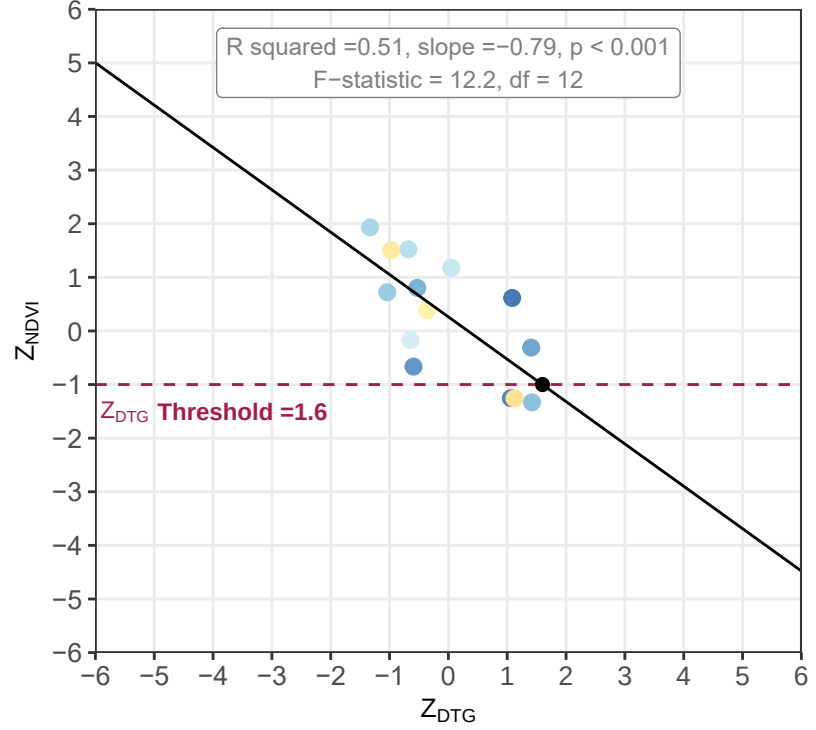
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c

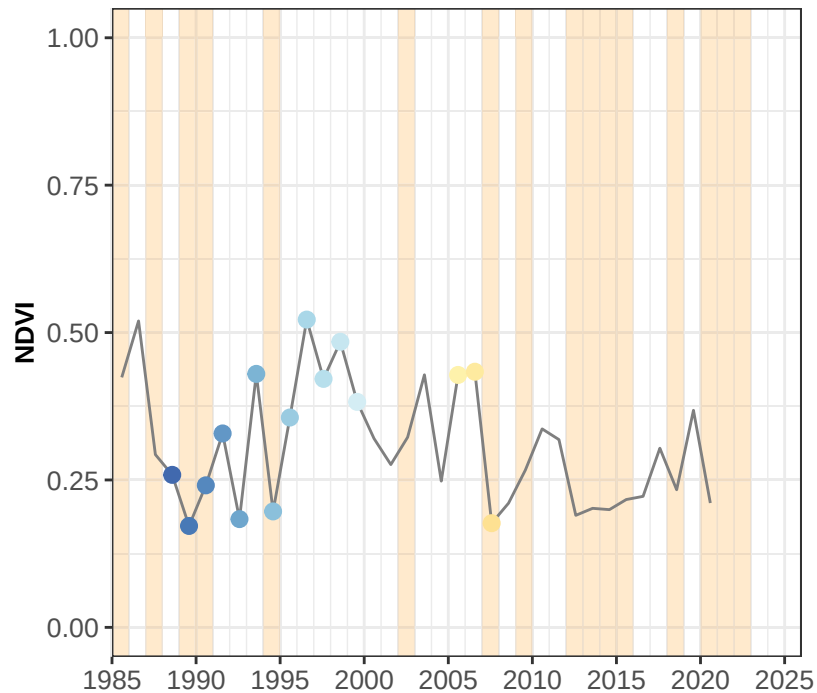


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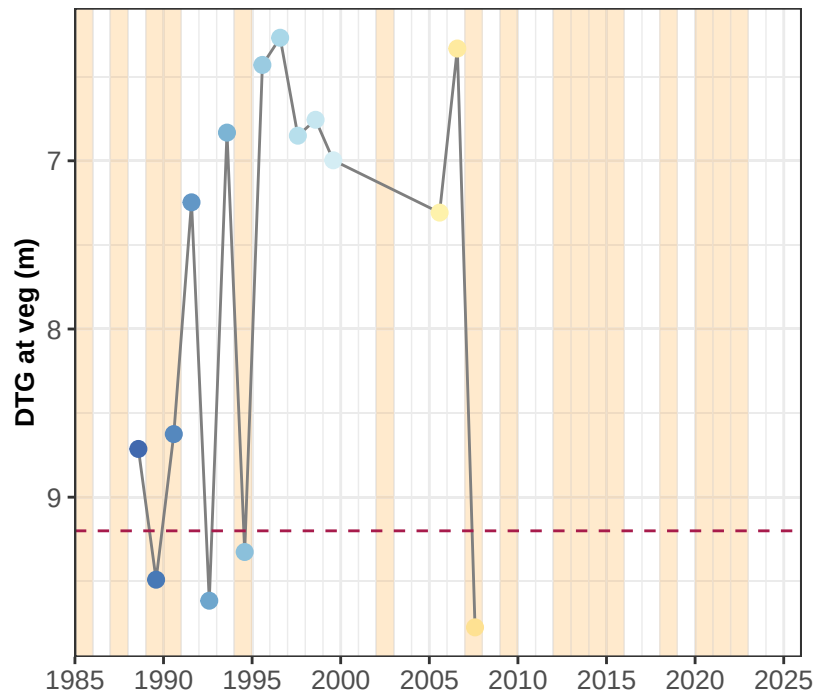


Flooded Veg (gdeID: 147665)

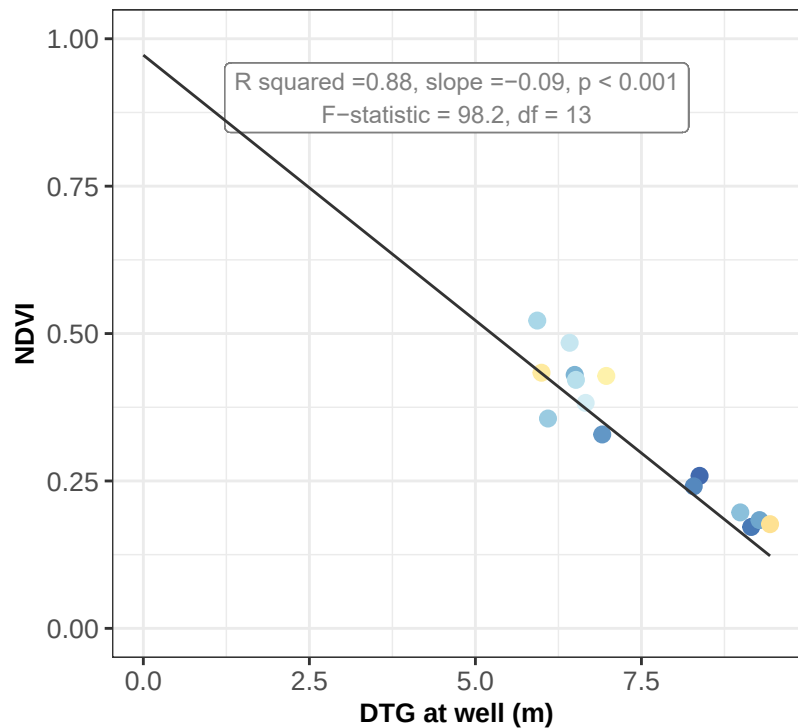
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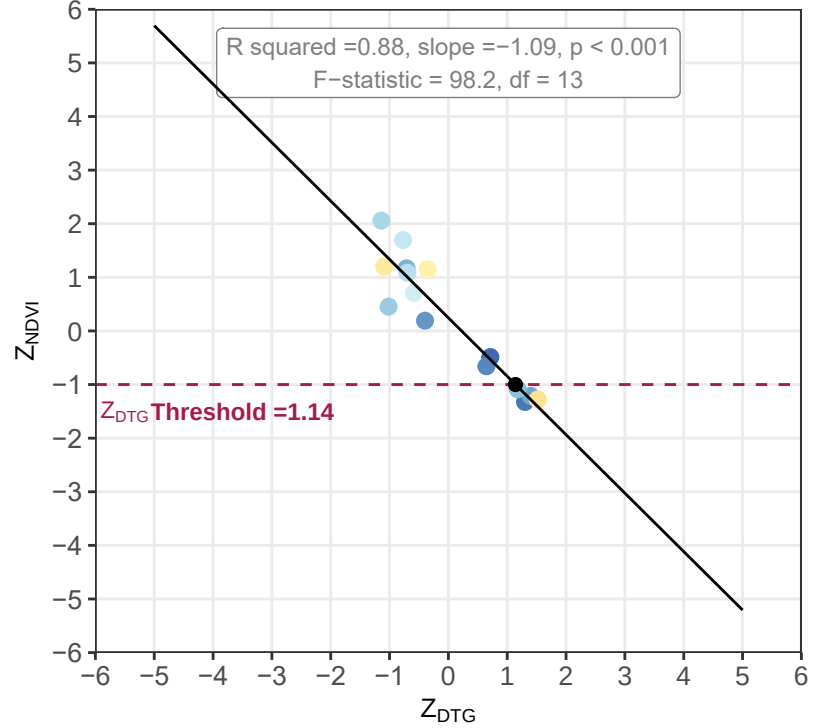
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c

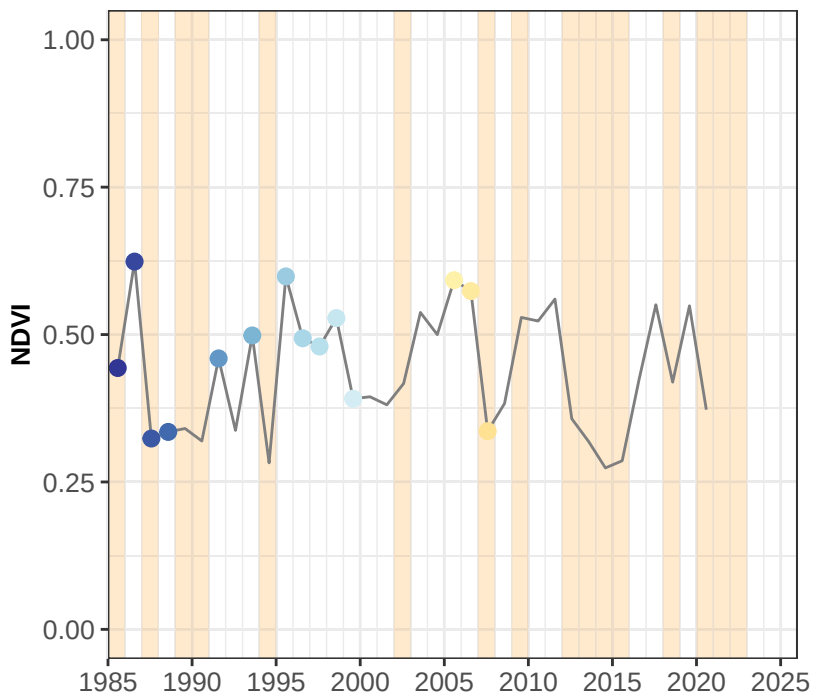


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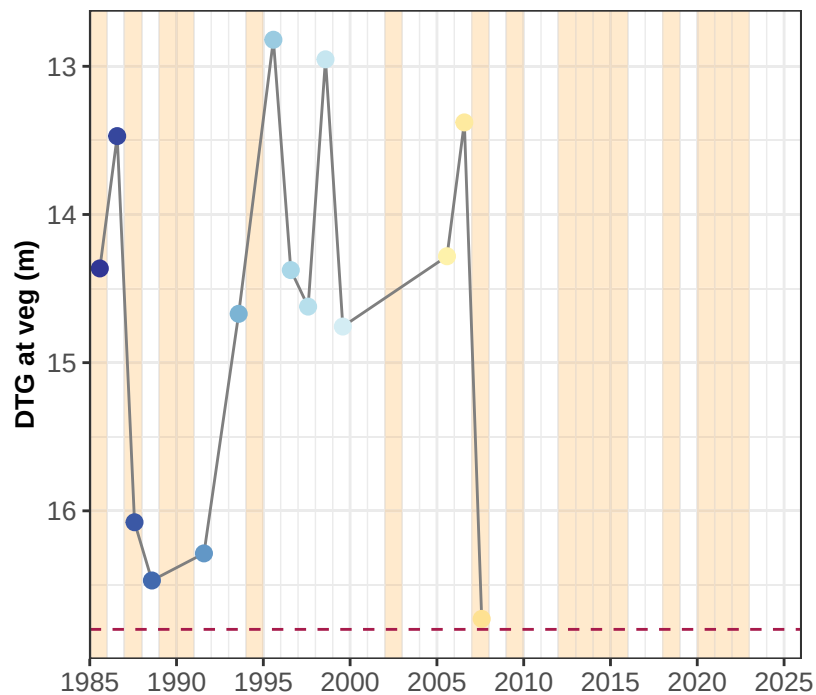


Flooded Veg (gdeID: 147672)

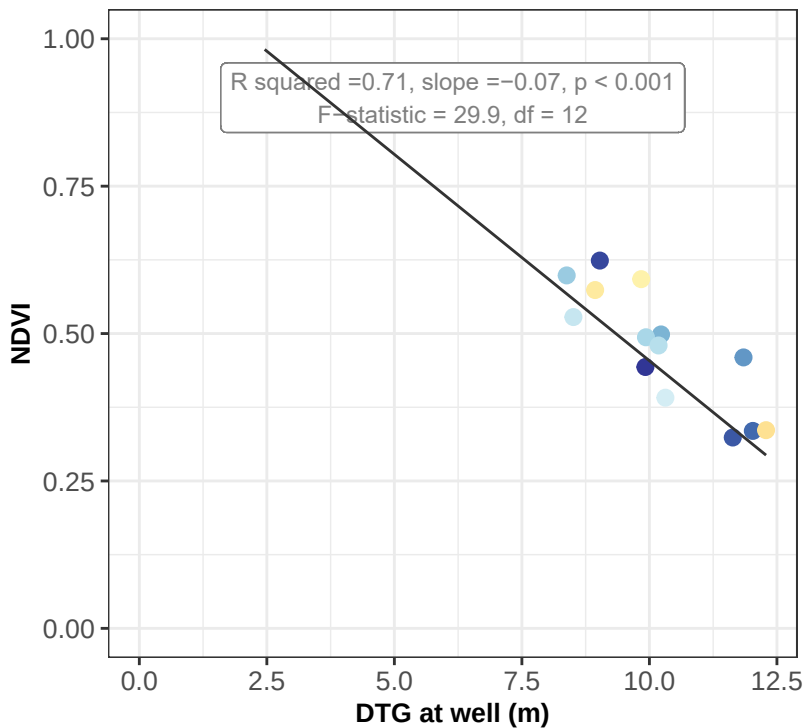
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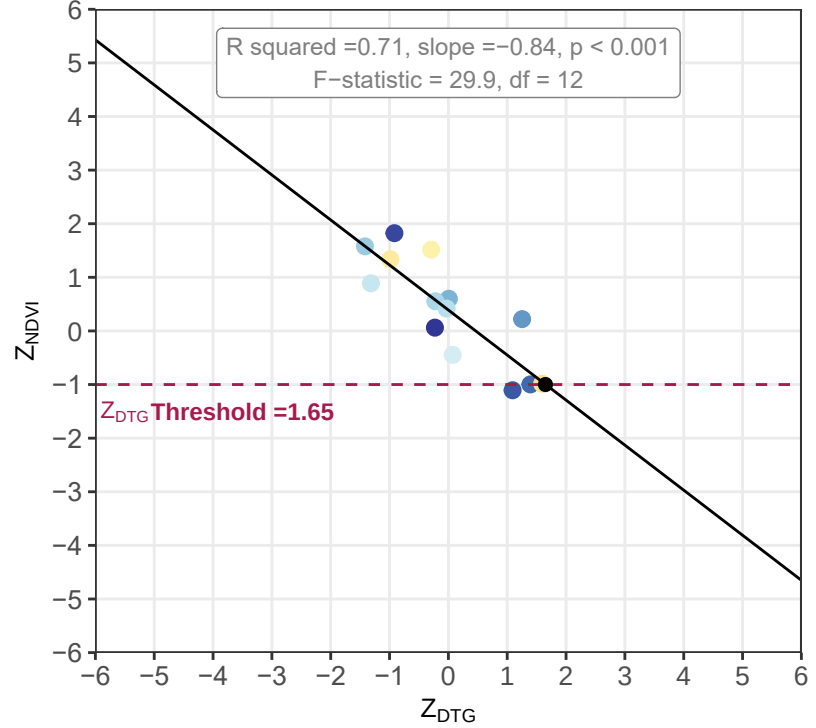
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c

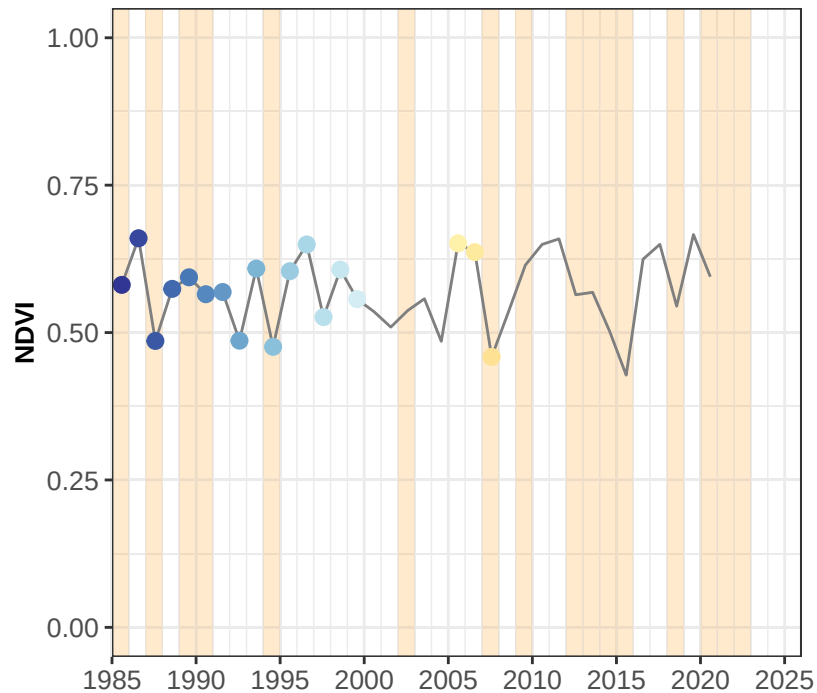


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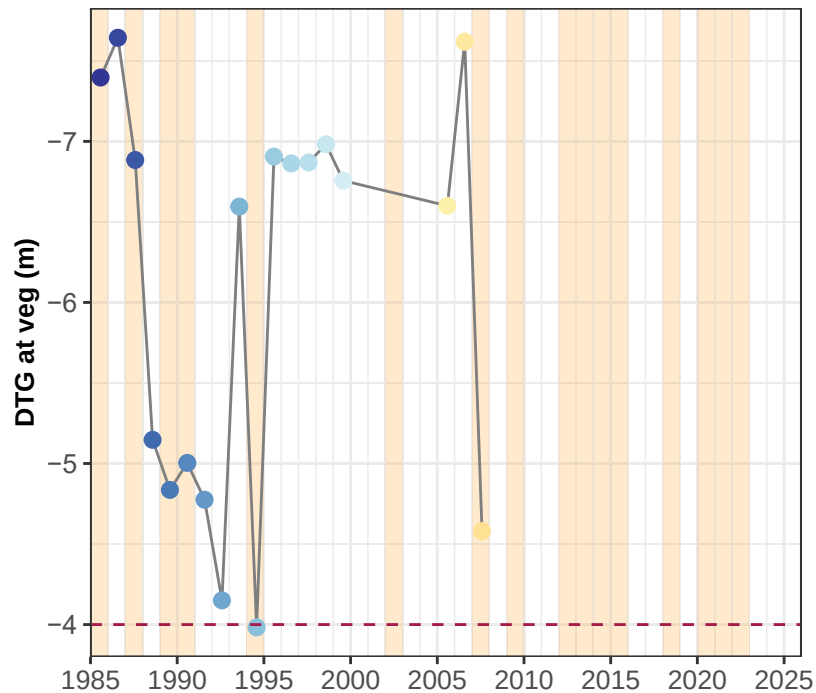


Flooded Veg (gdeID: 147674)

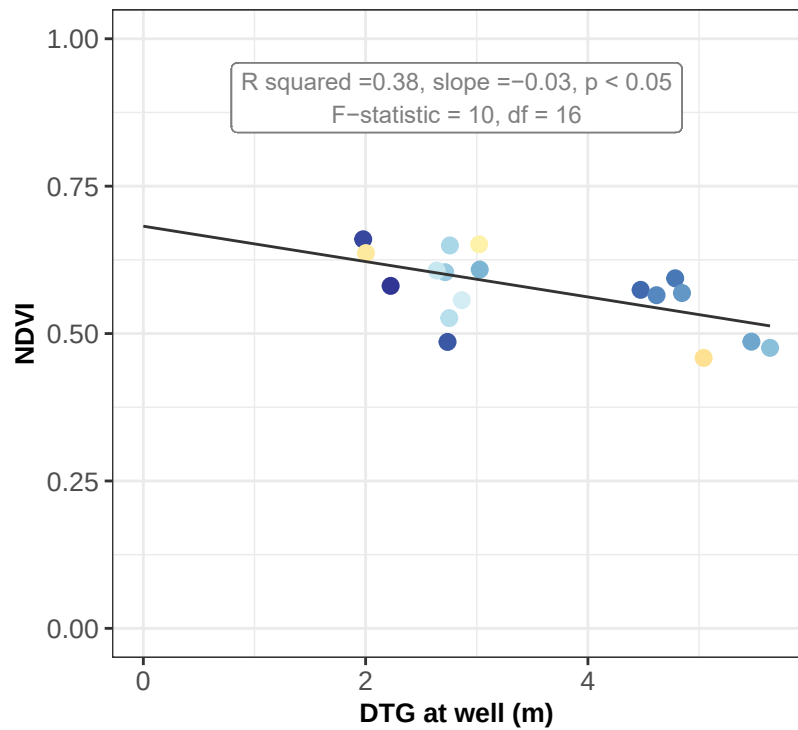
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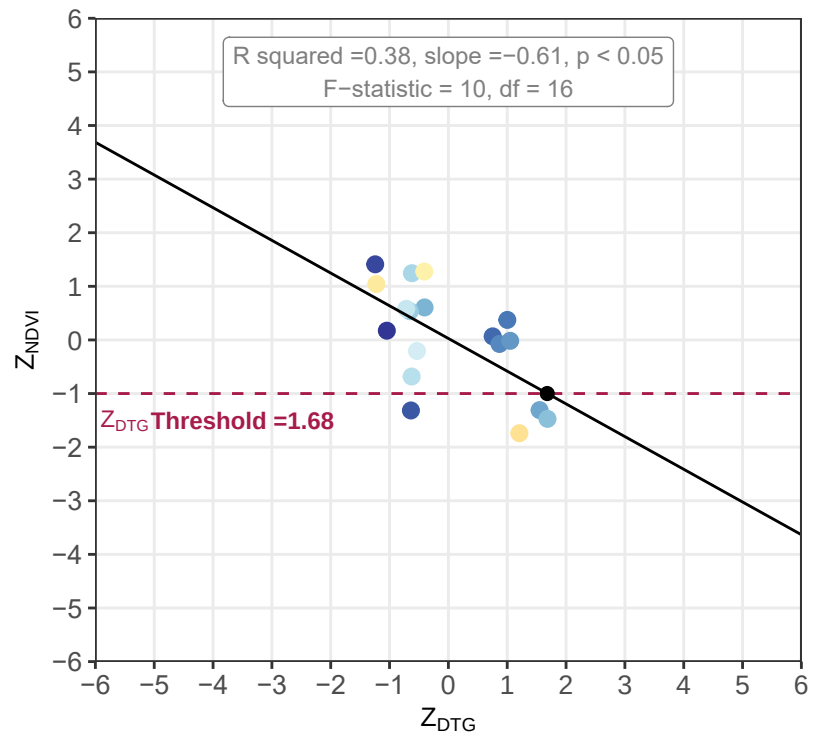
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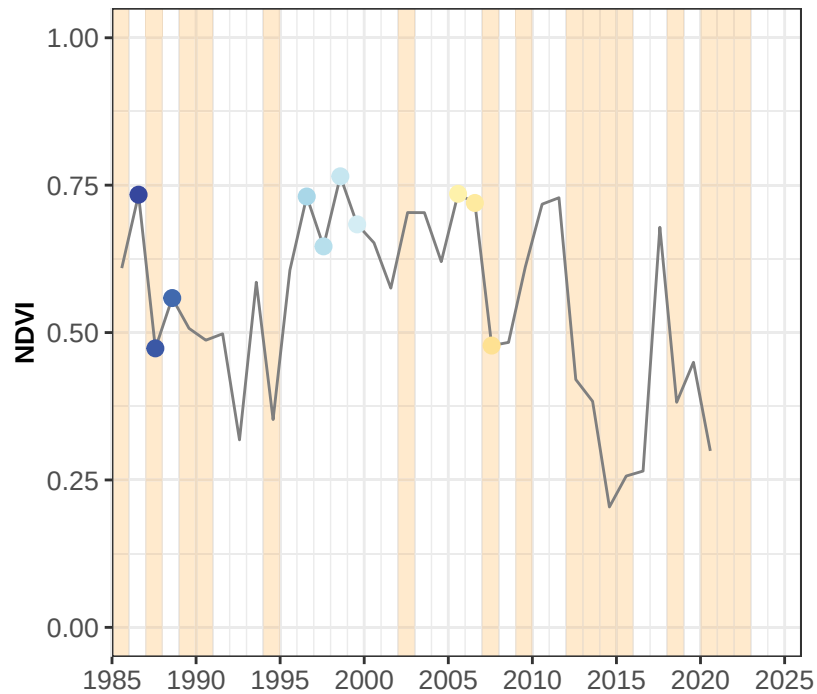


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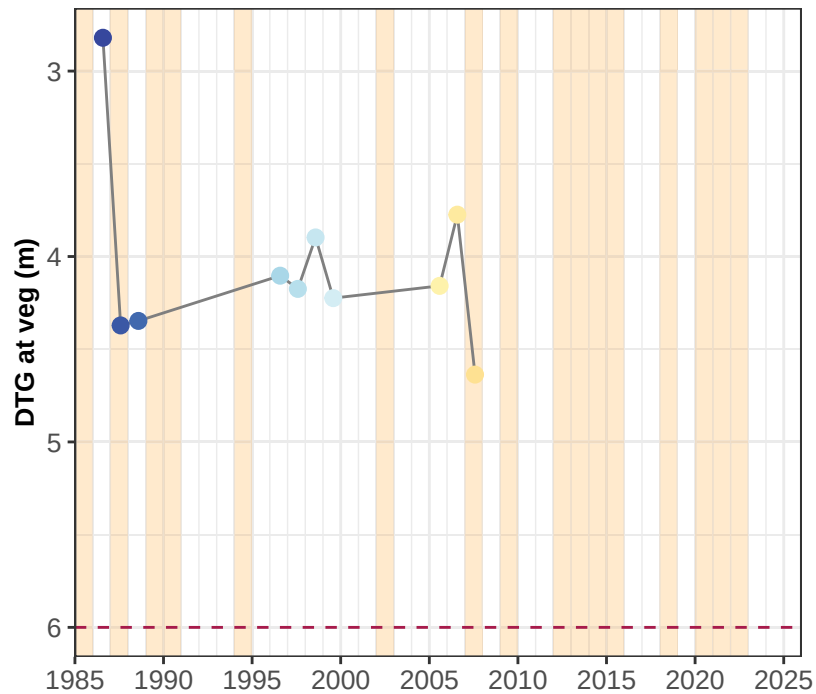


Flooded Veg (gdeID: 147675)

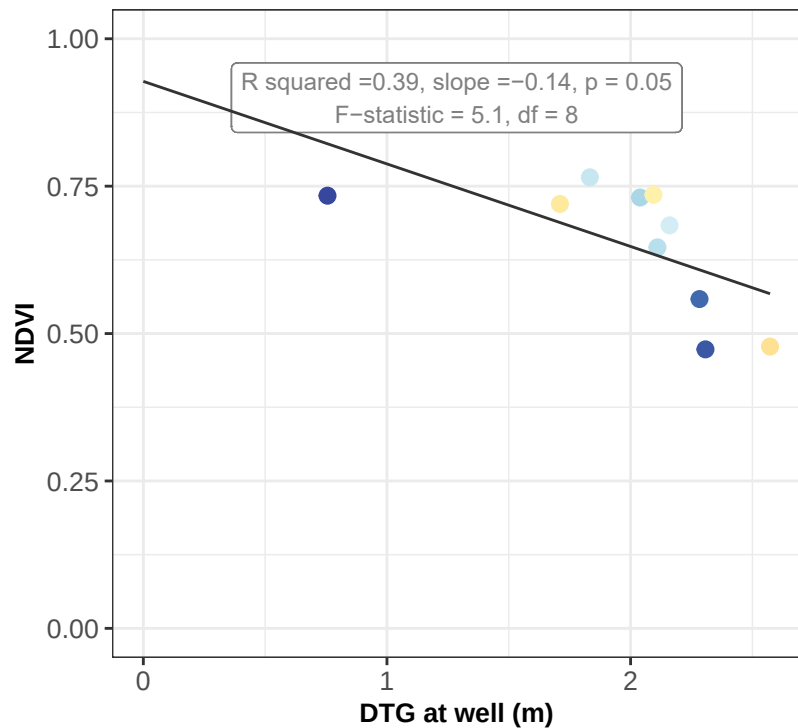
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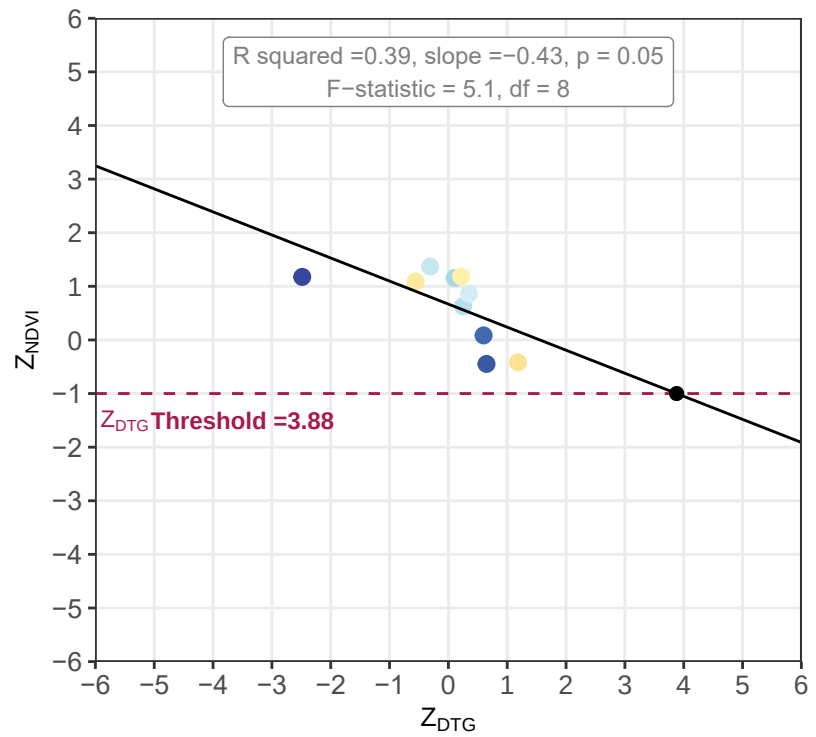
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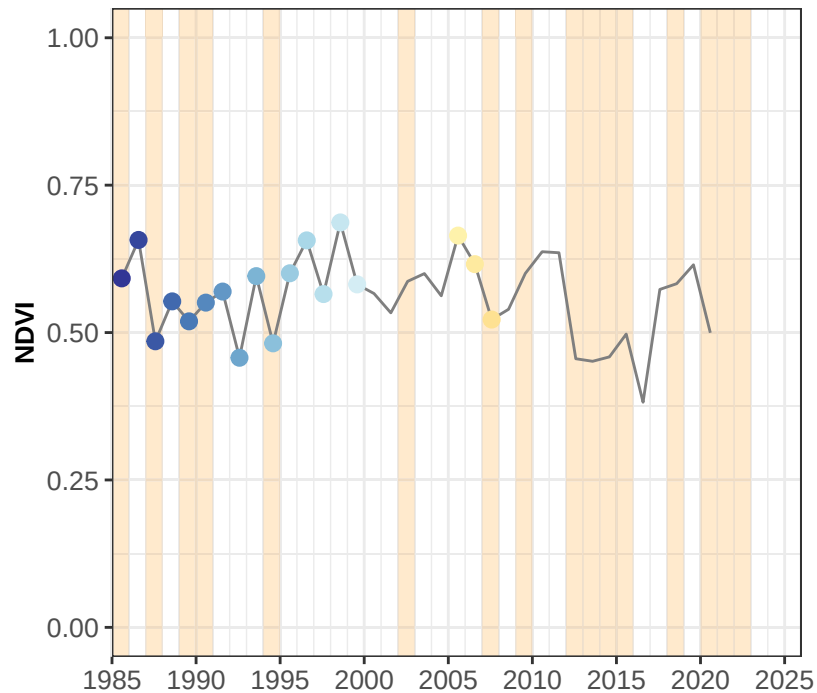


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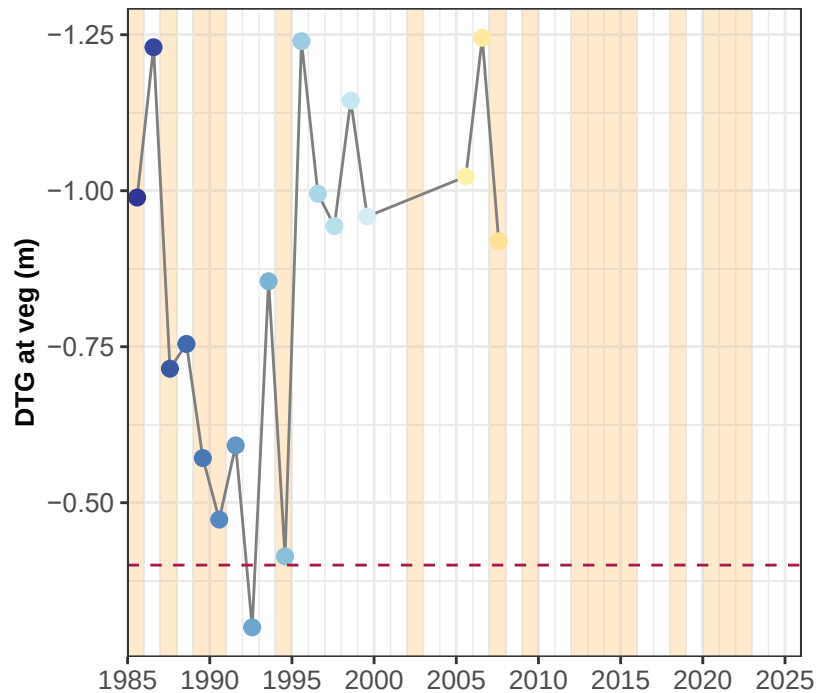


Flooded Veg (gdeID: 147679)

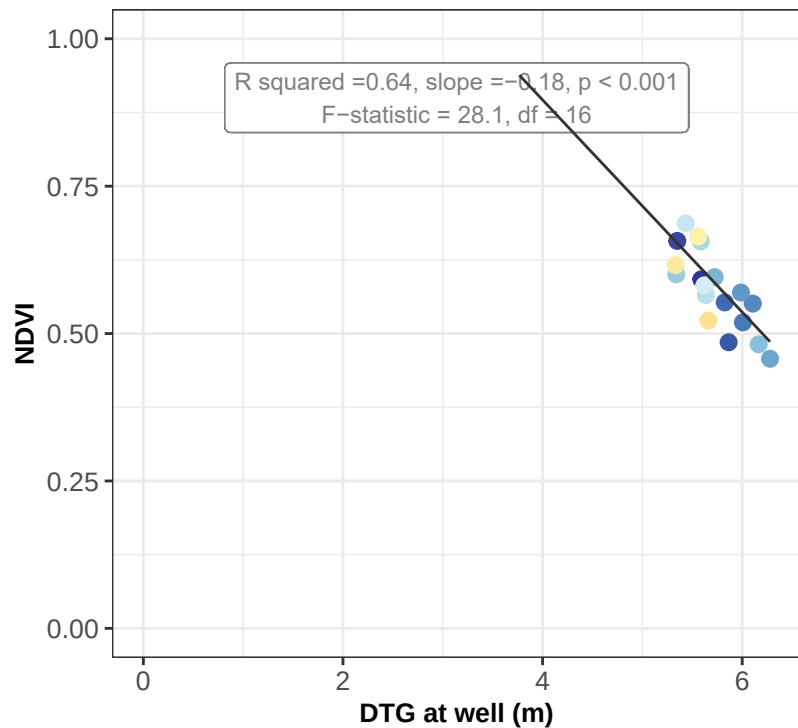
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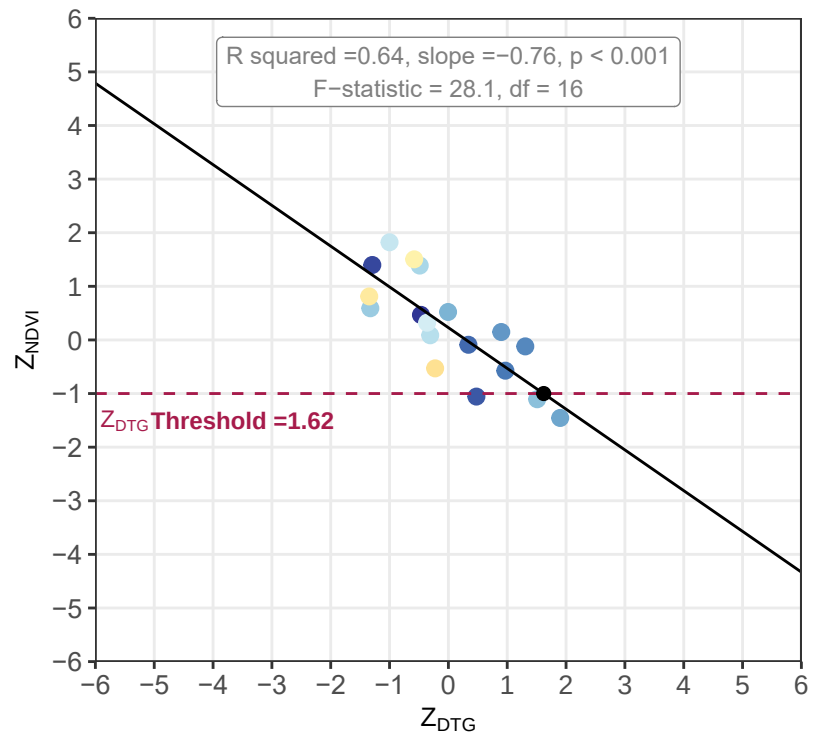
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c

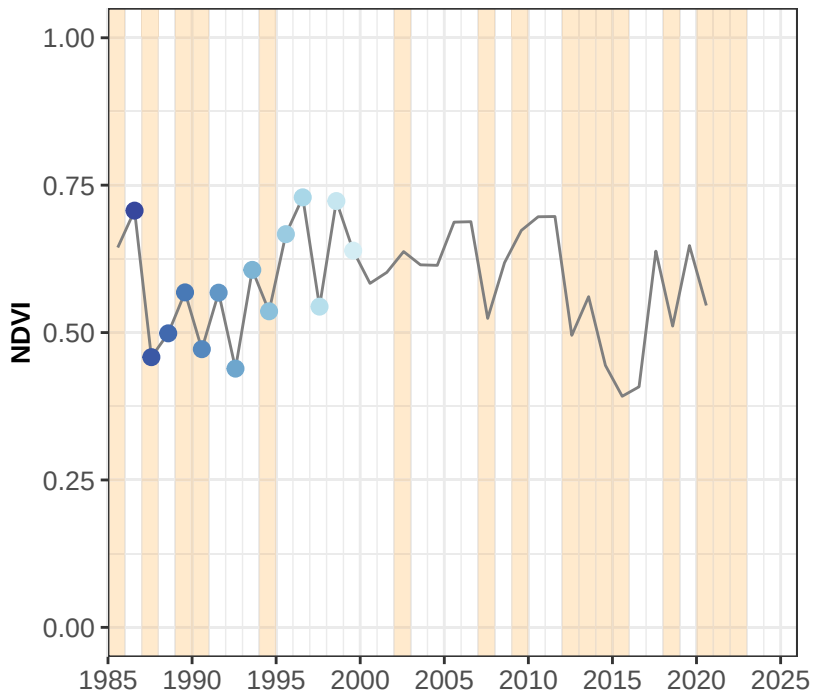


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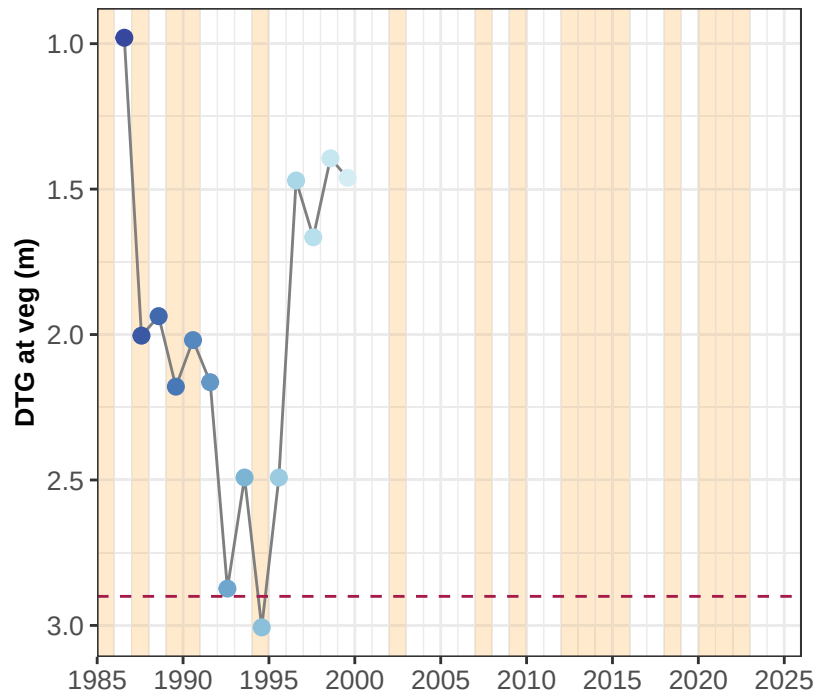


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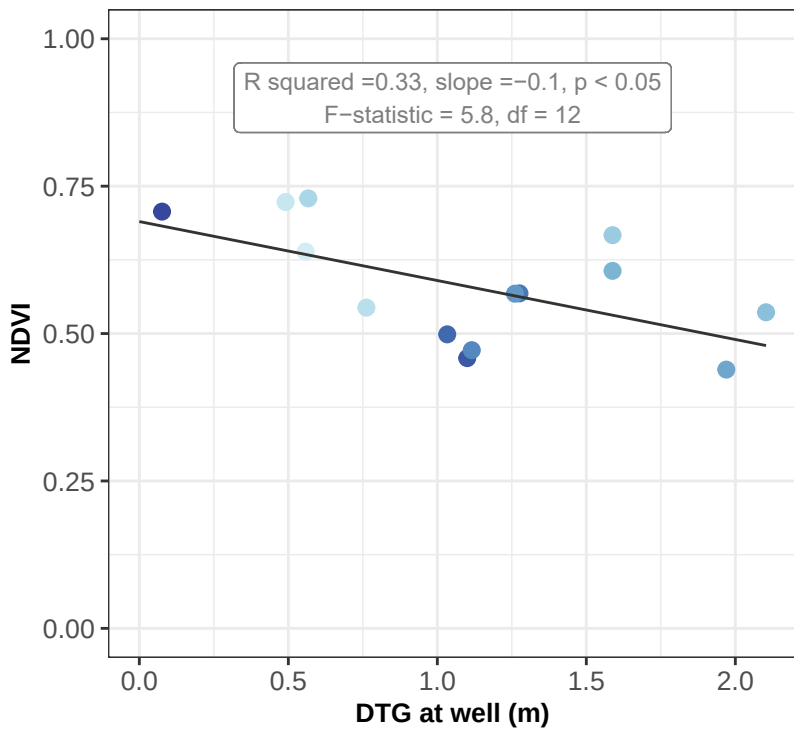
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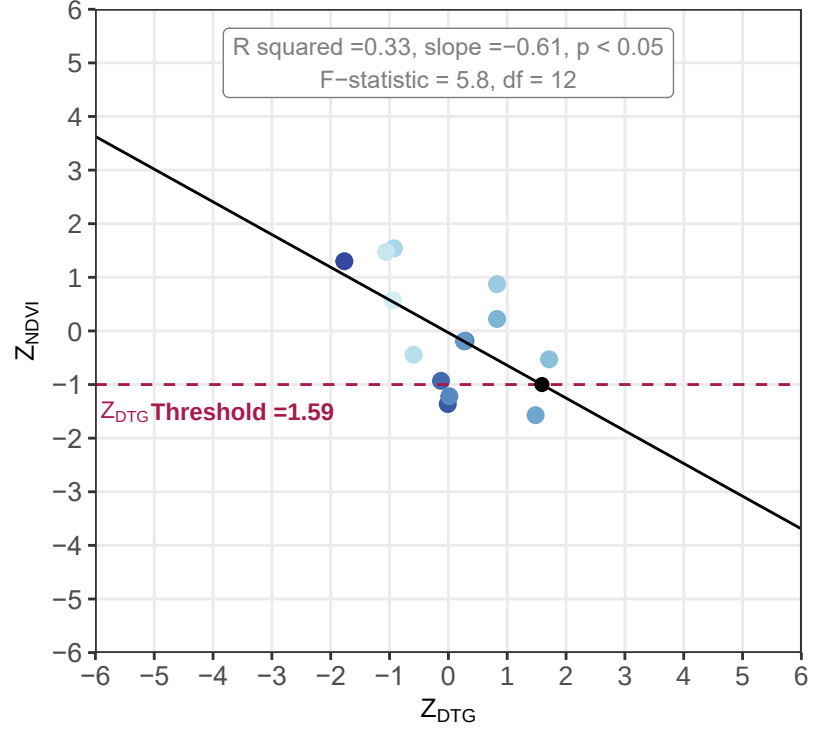
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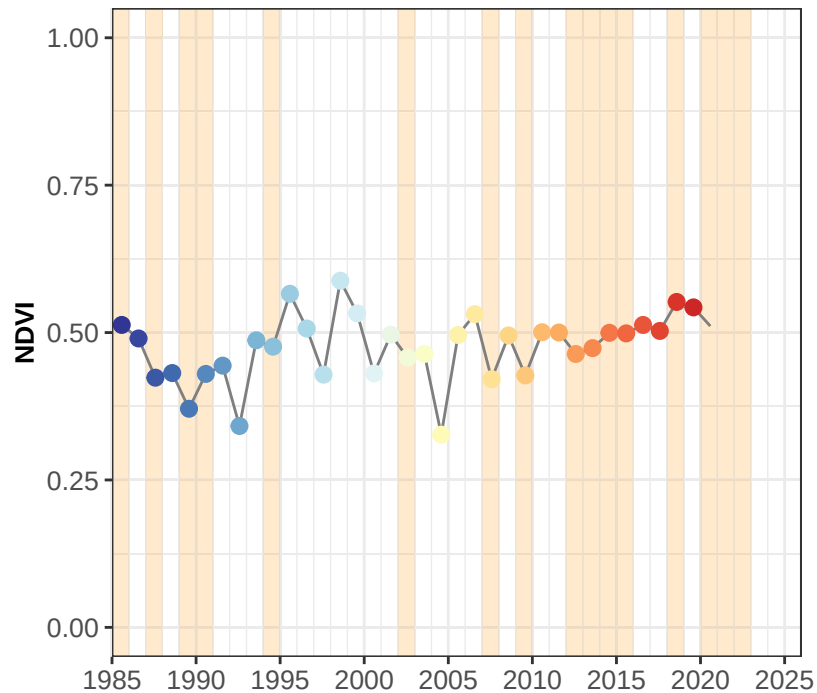


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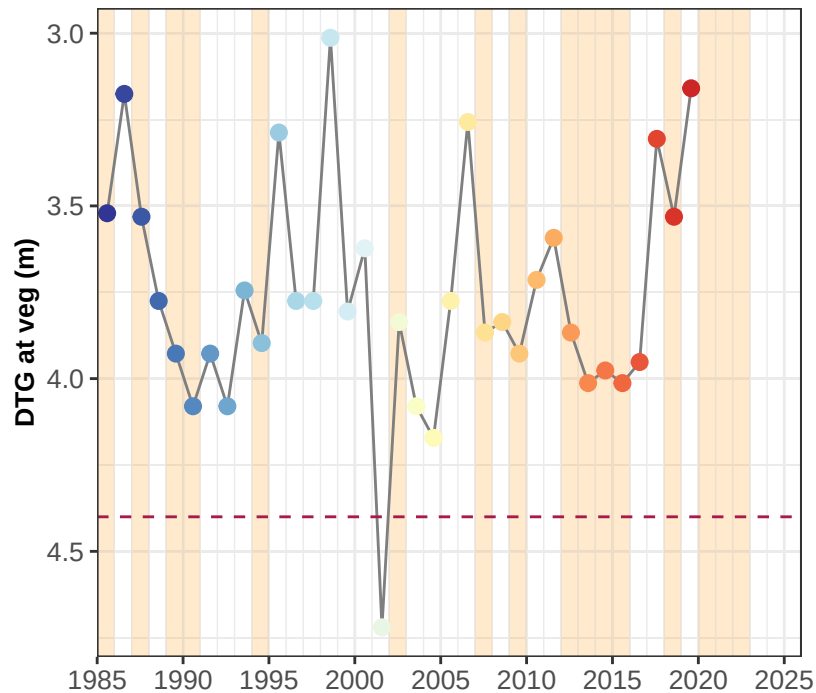


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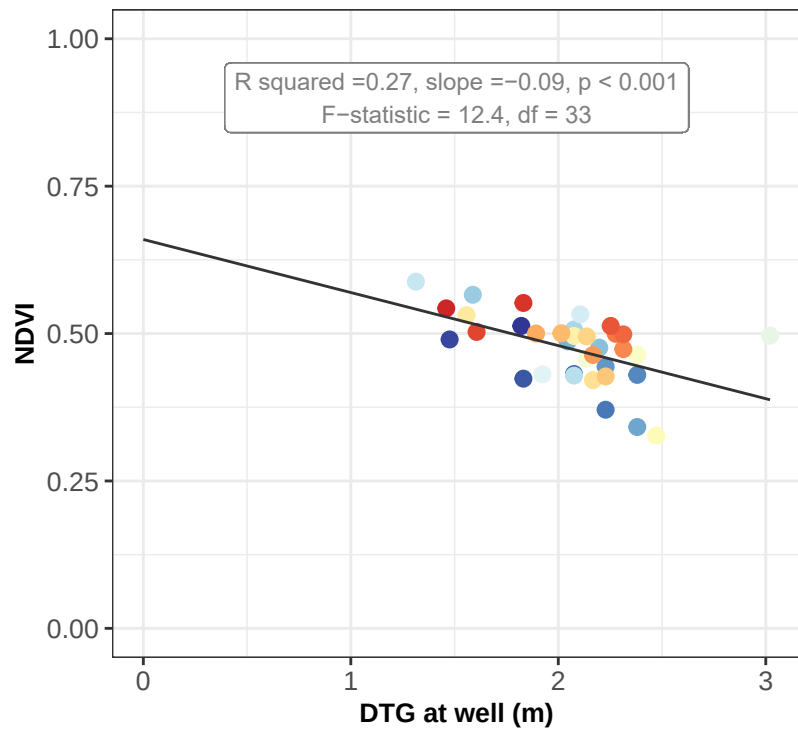
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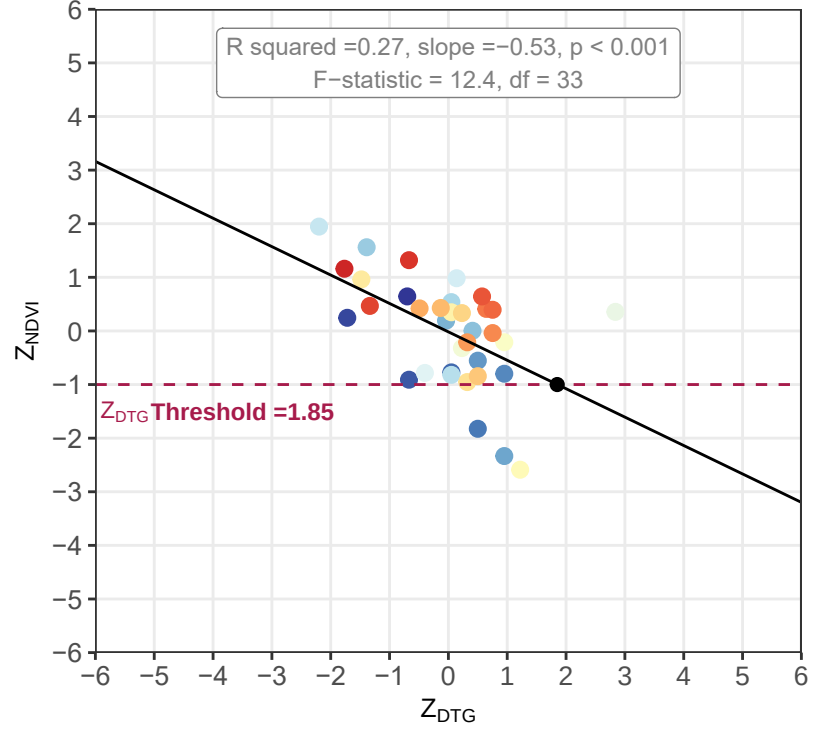
b



c

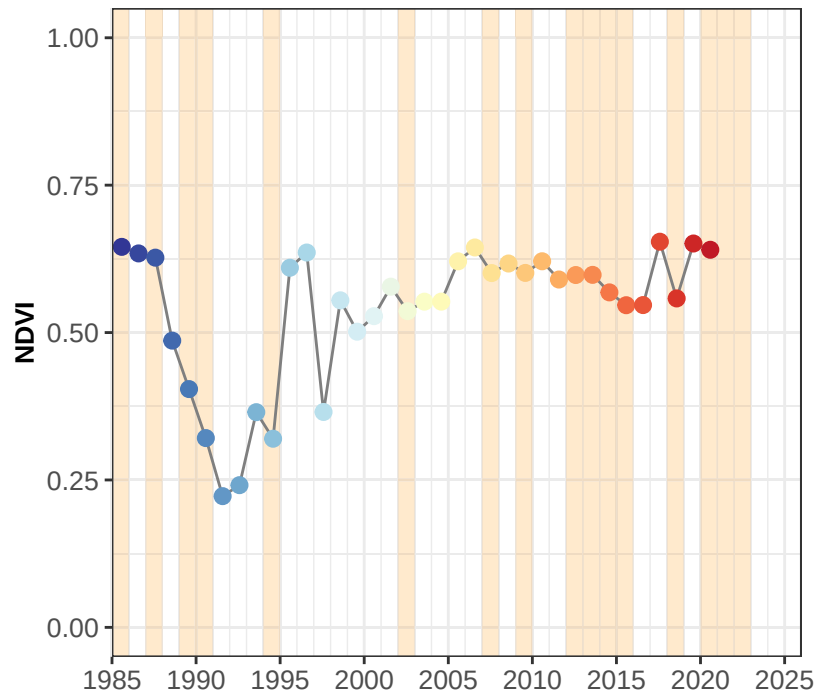


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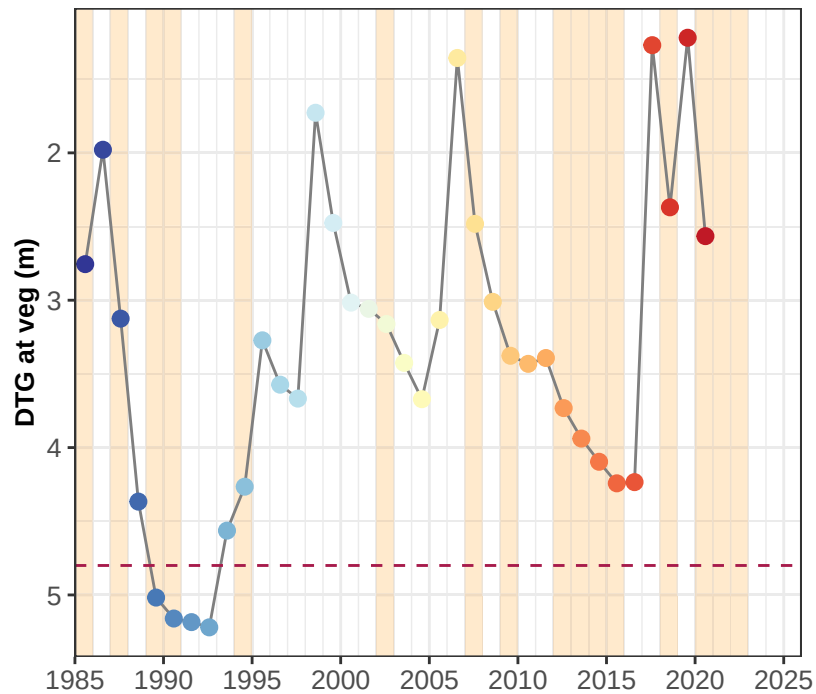


Flooded Veg (gdeID: 148184)

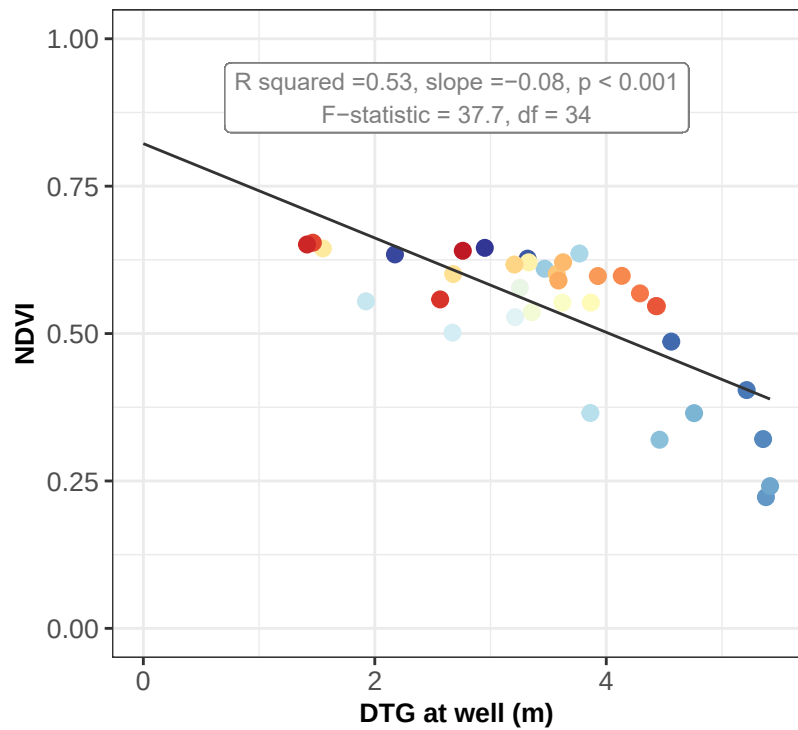
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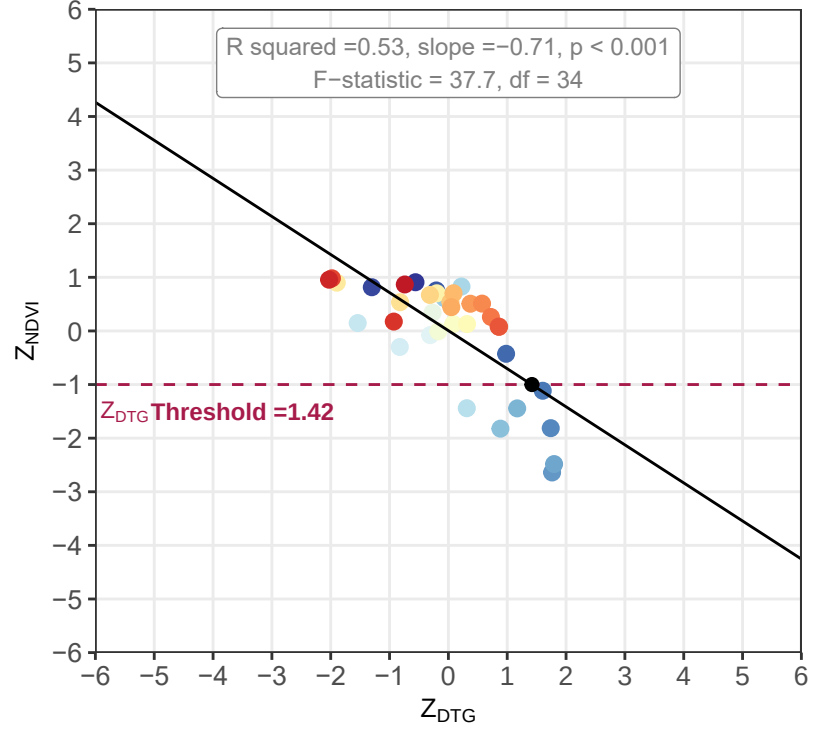
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c

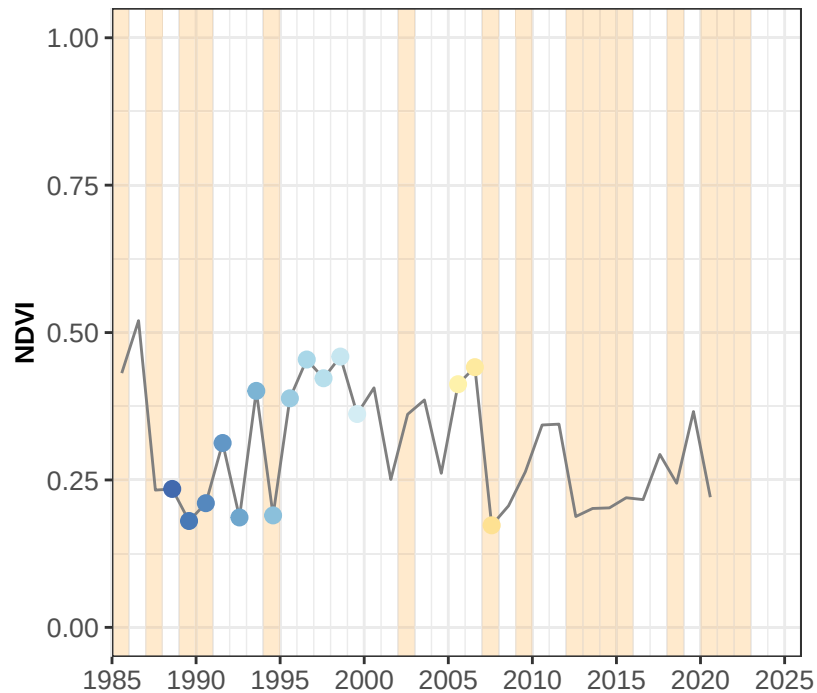


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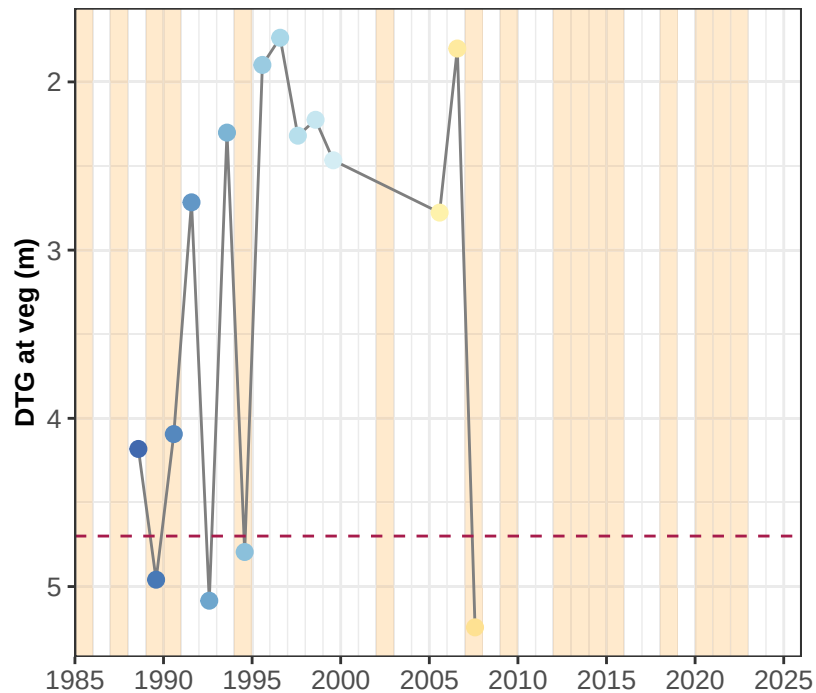


Flooded Veg (gdeID: 148295)

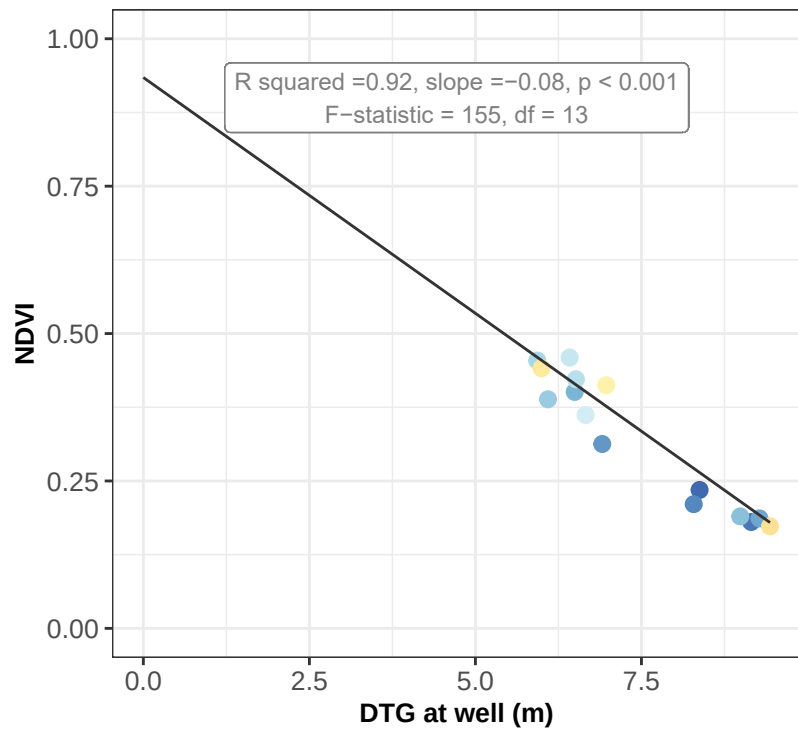
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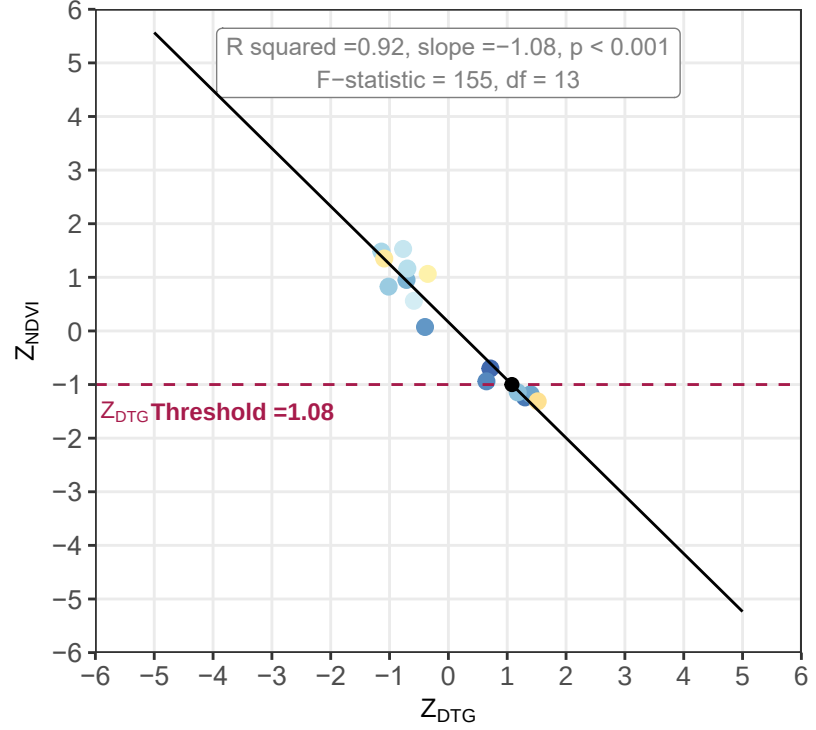
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c

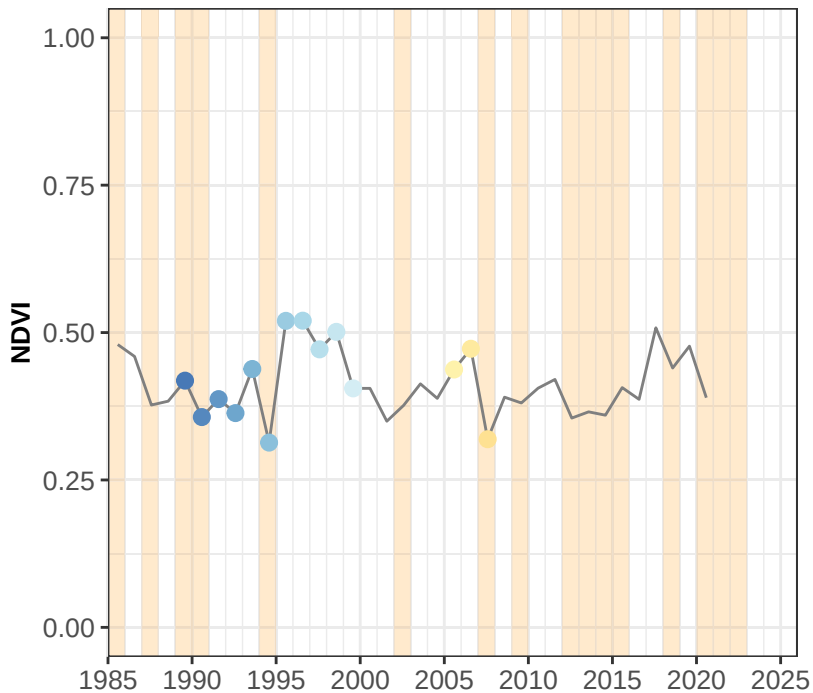


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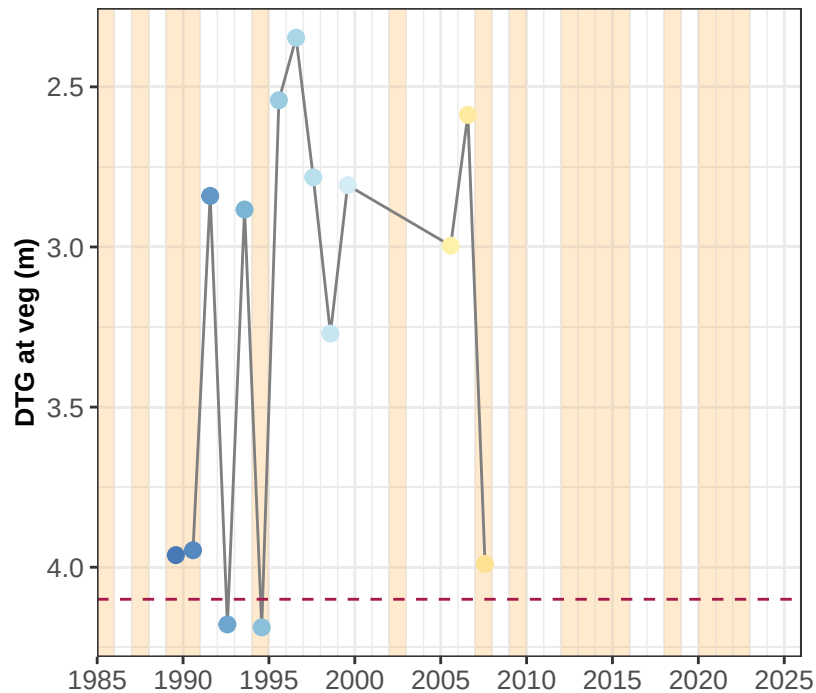


Flooded Veg (gdeID: 148296)

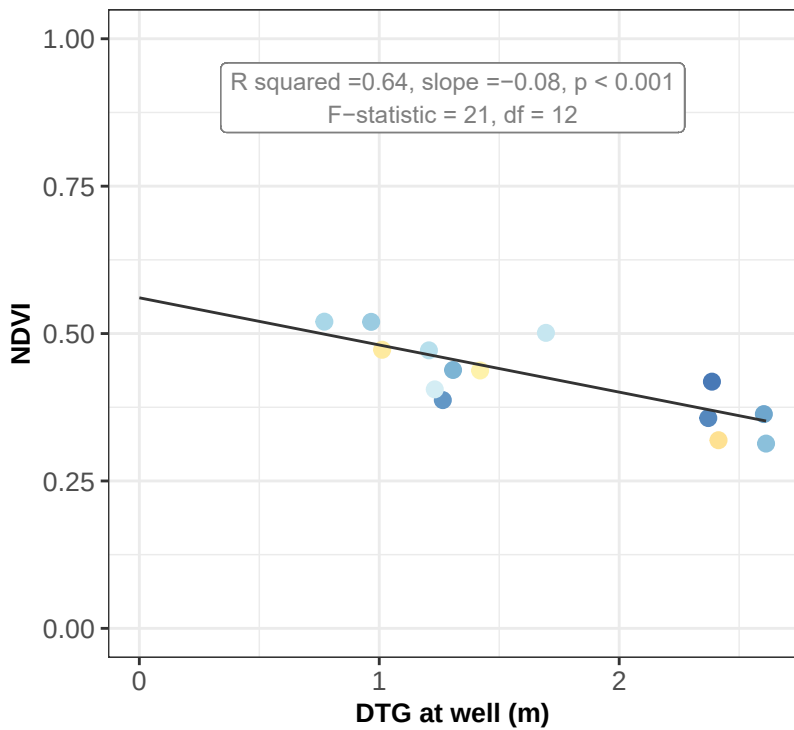
a



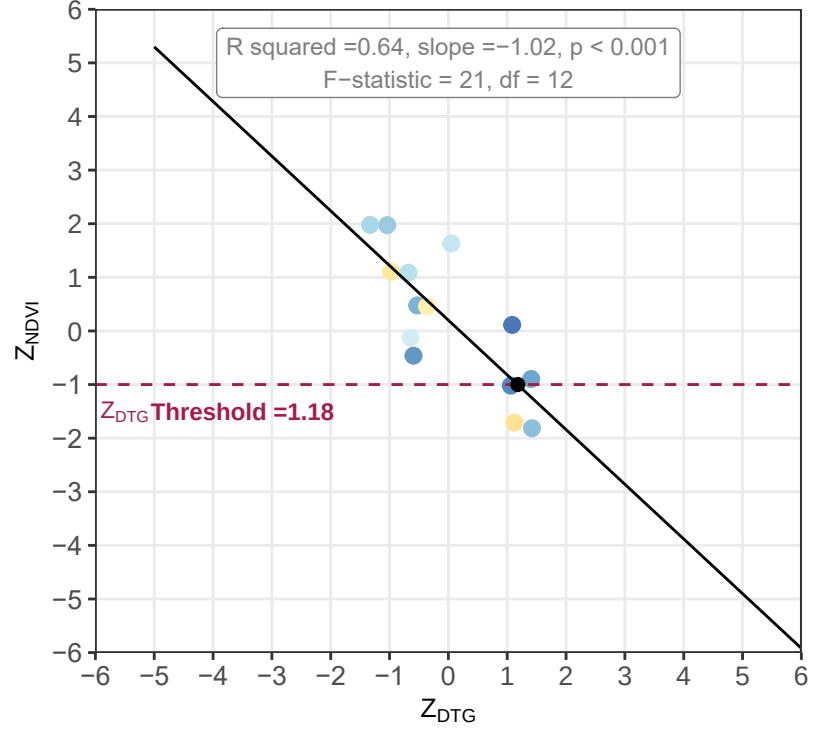
b



c

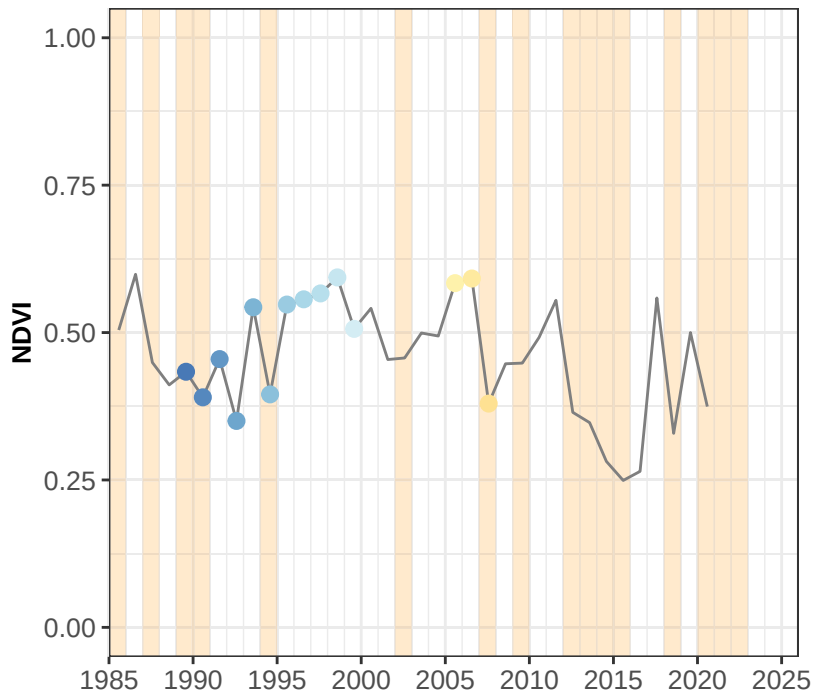


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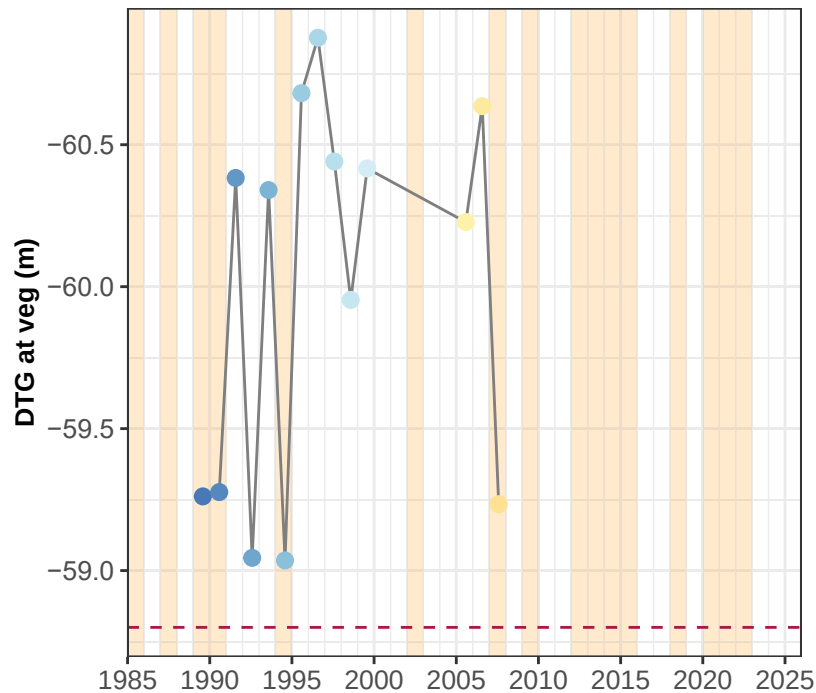


Flooded Veg (gdeID: 148300)

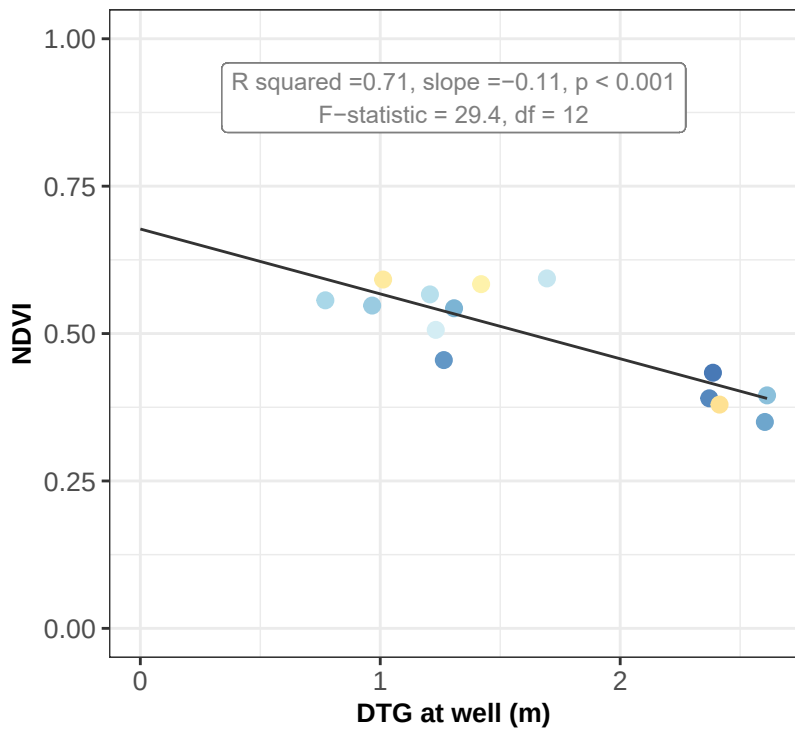
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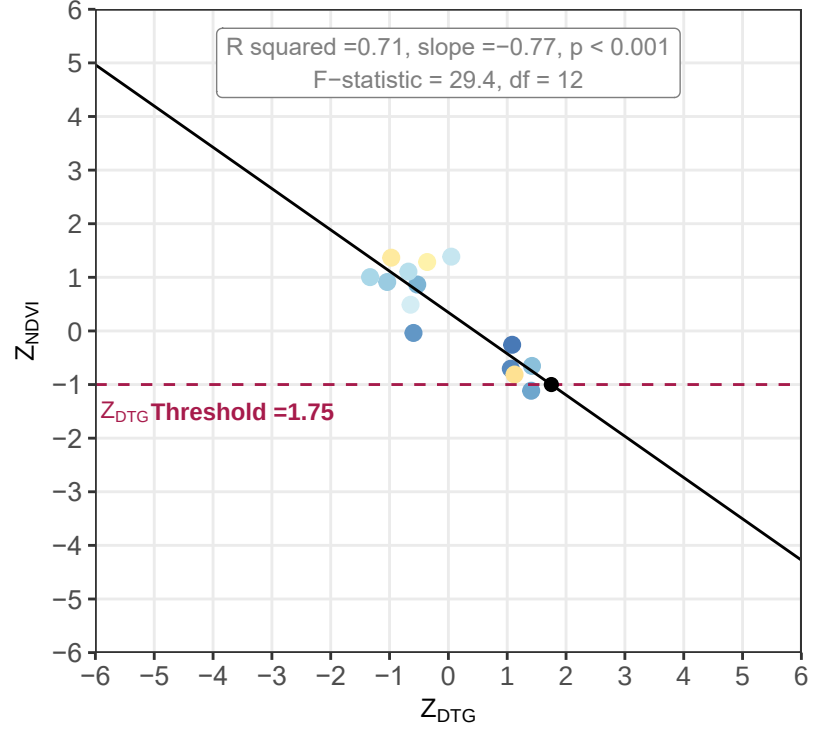
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c

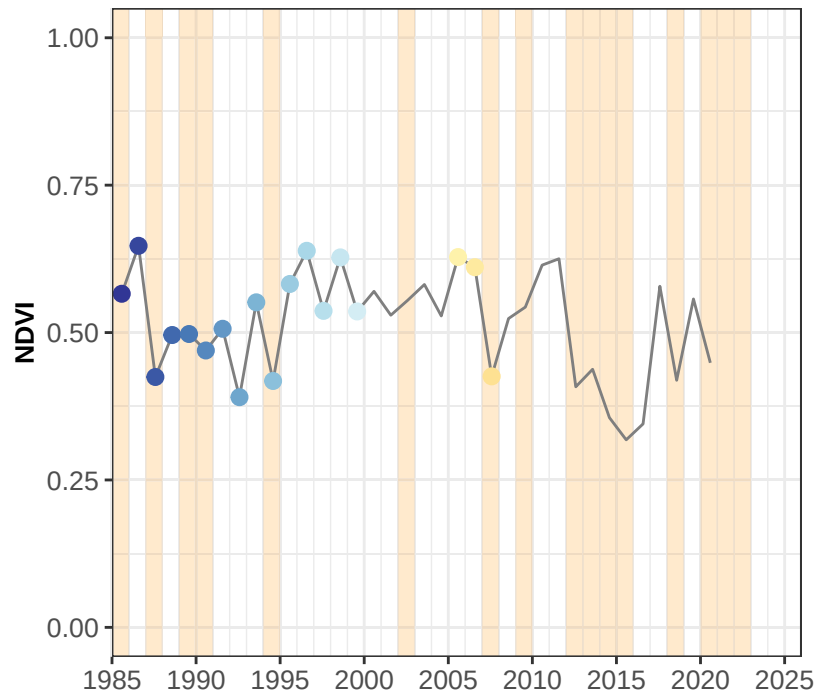


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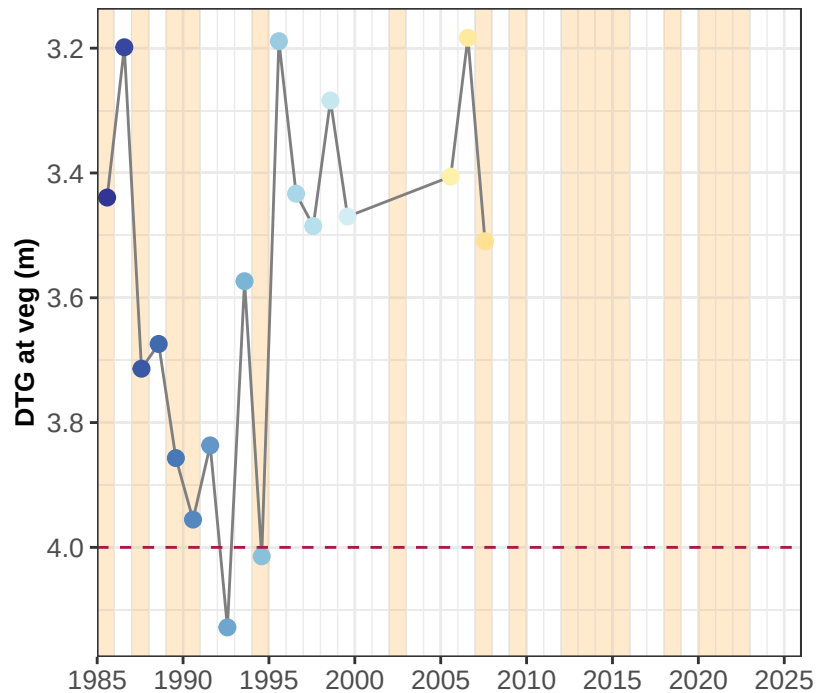


Flooded Veg (gdeID: 148320)

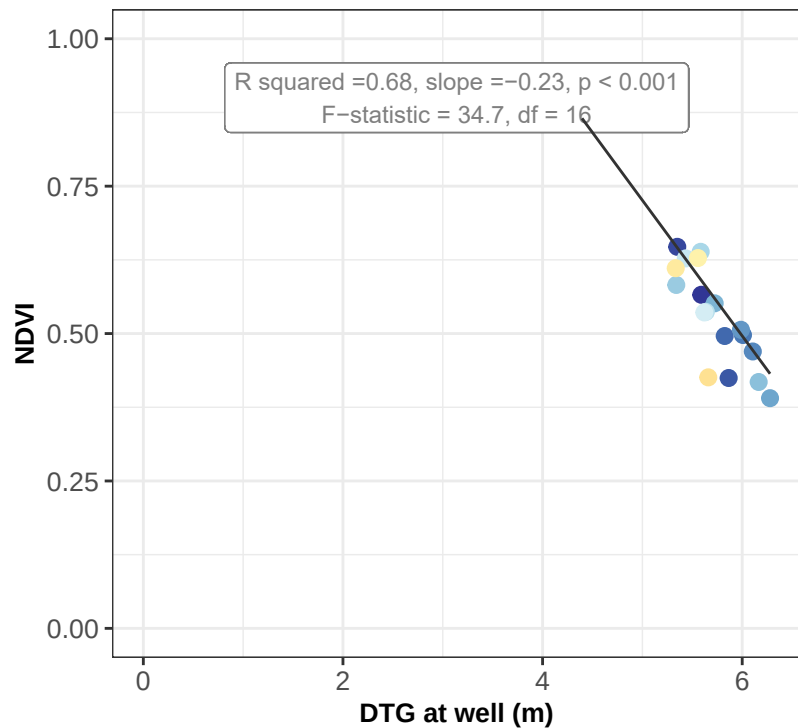
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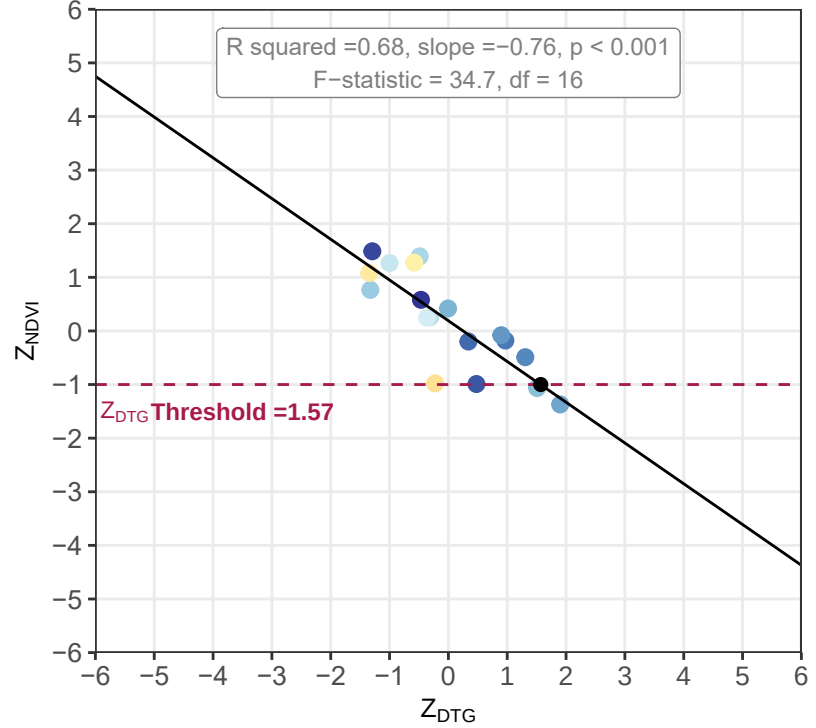
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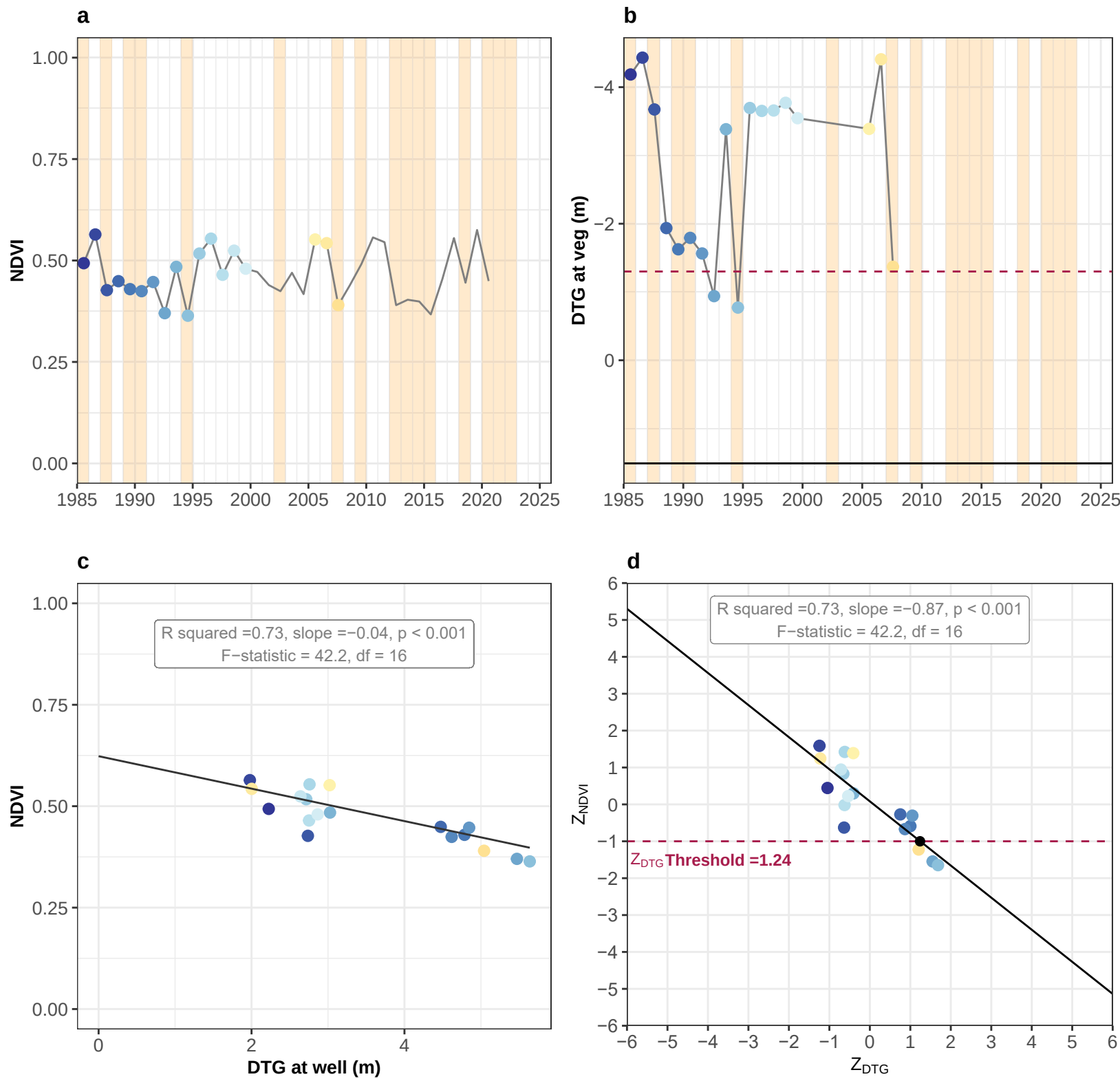
c



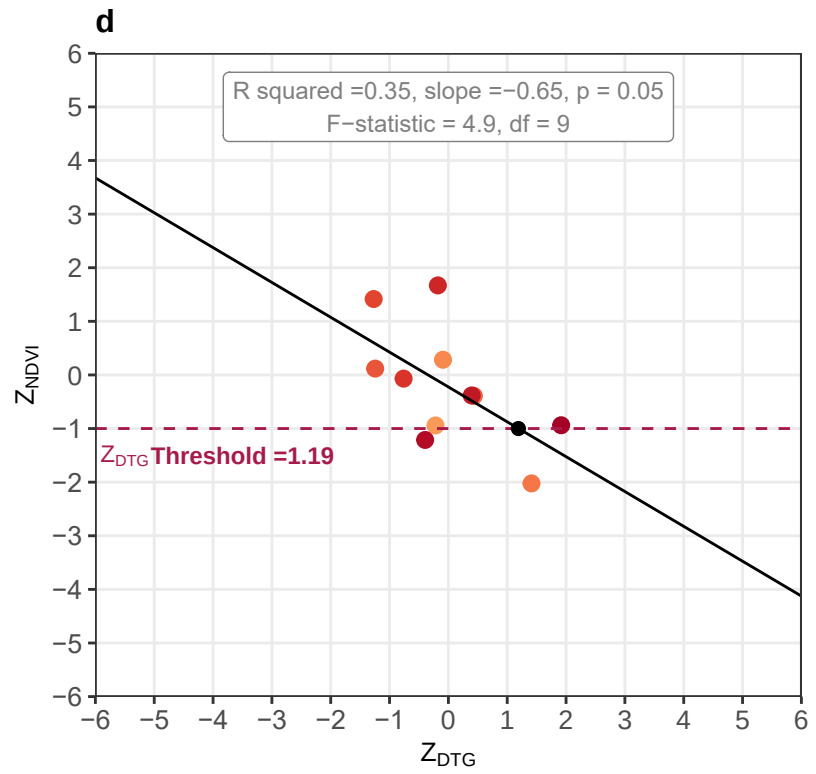
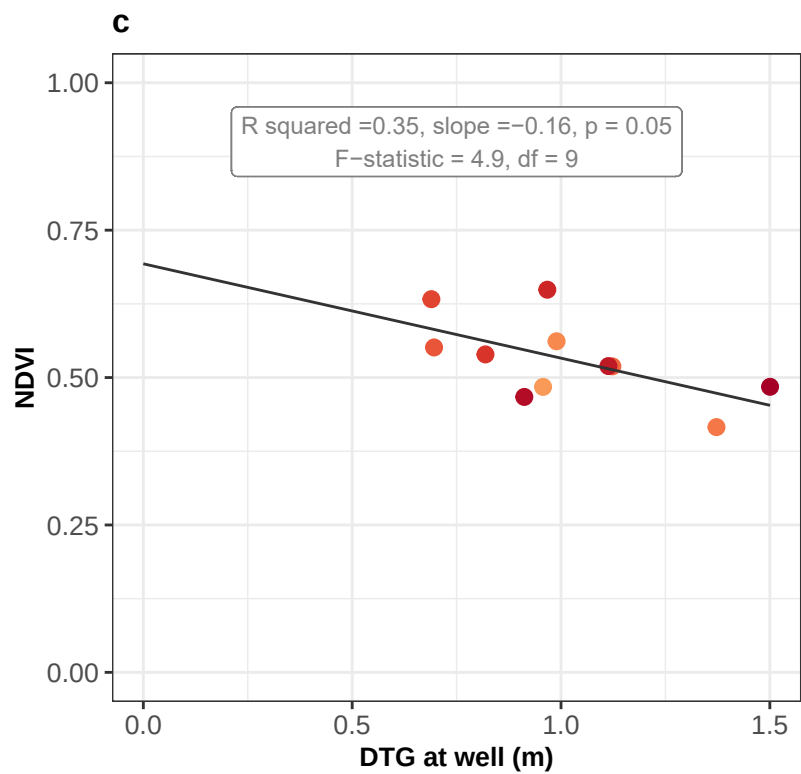
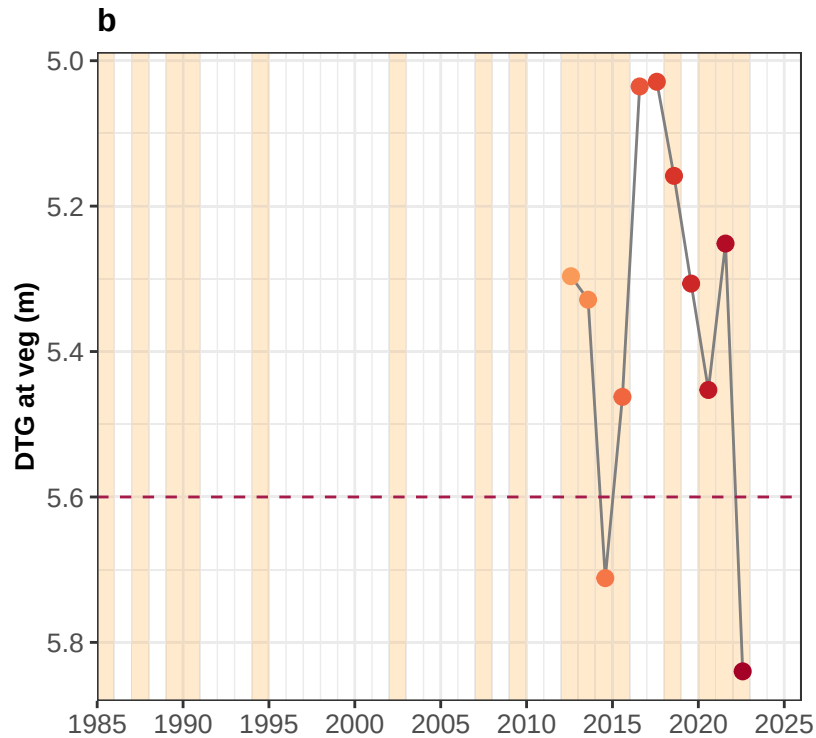
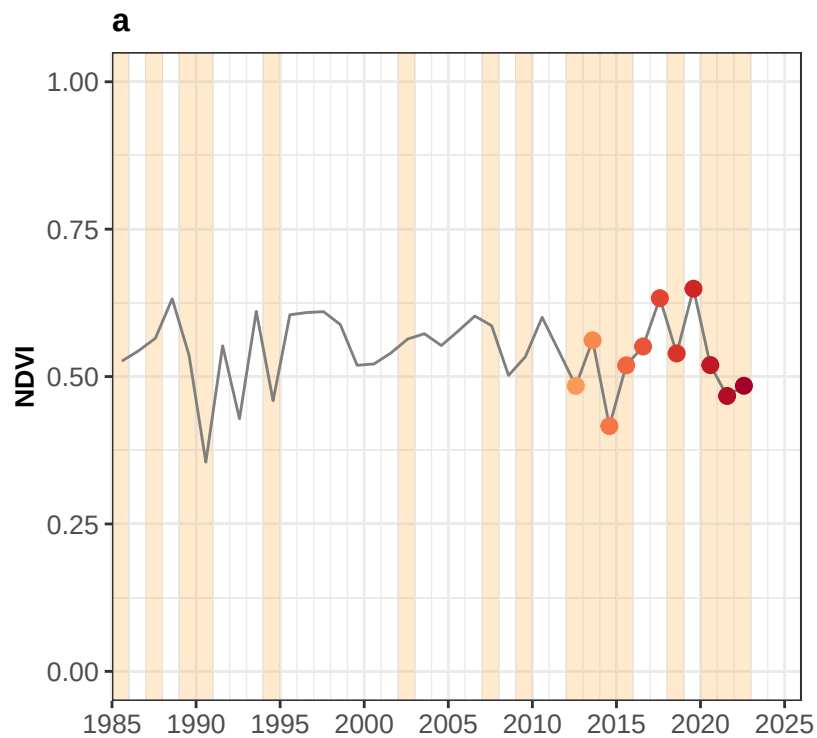
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Salix (gdeID: 148505)

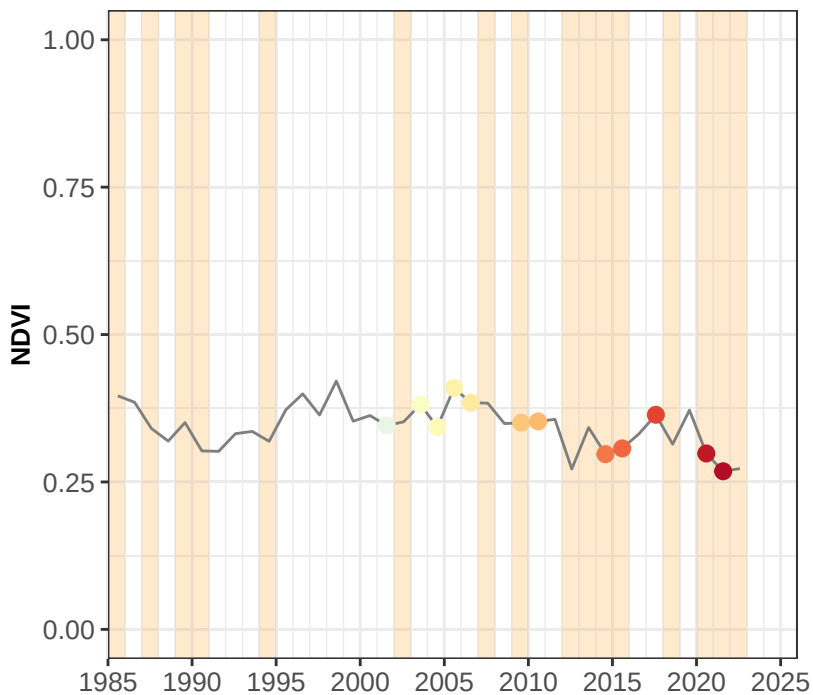


(gdeID: 148773)

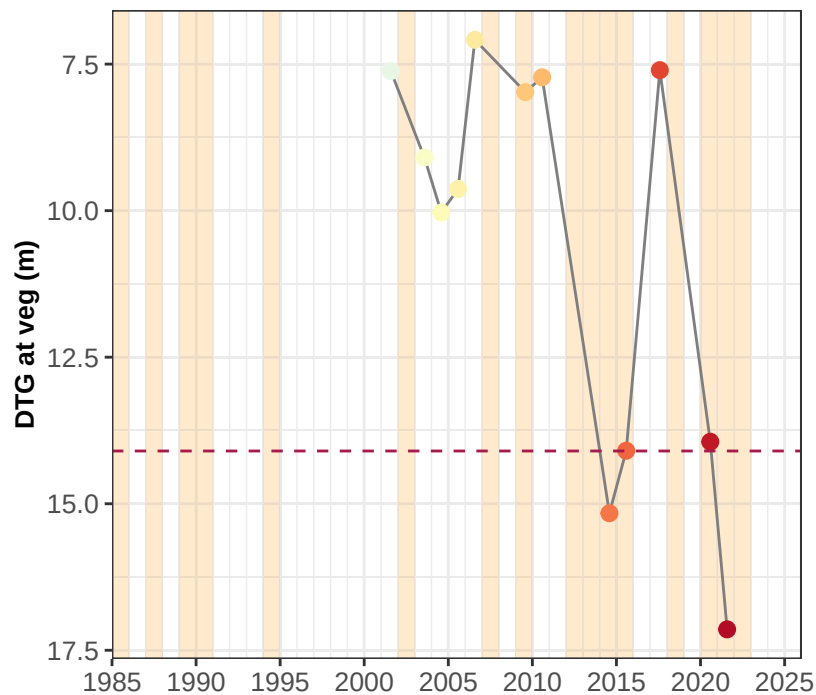


Juglans (gdeID: 148780)

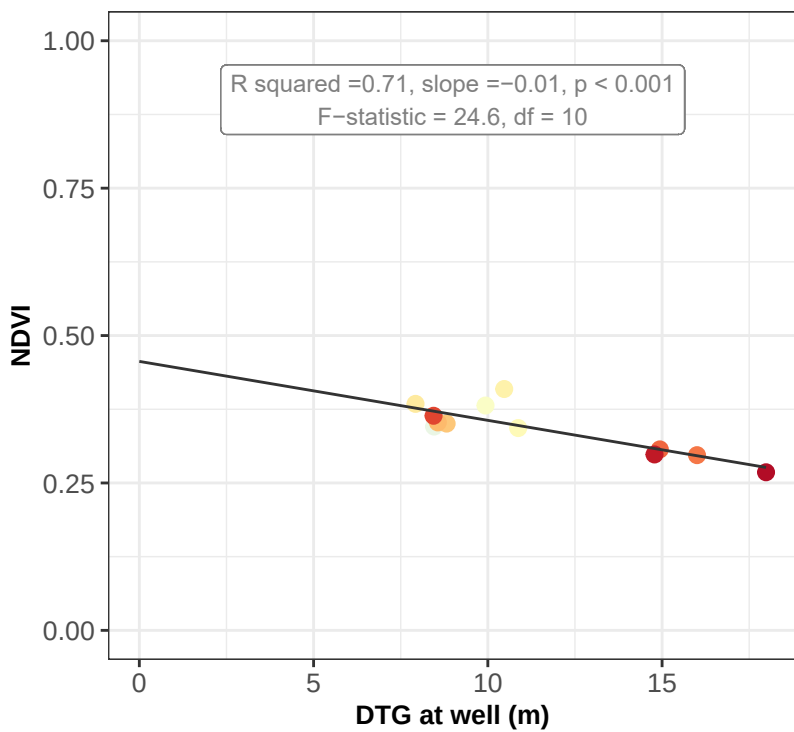
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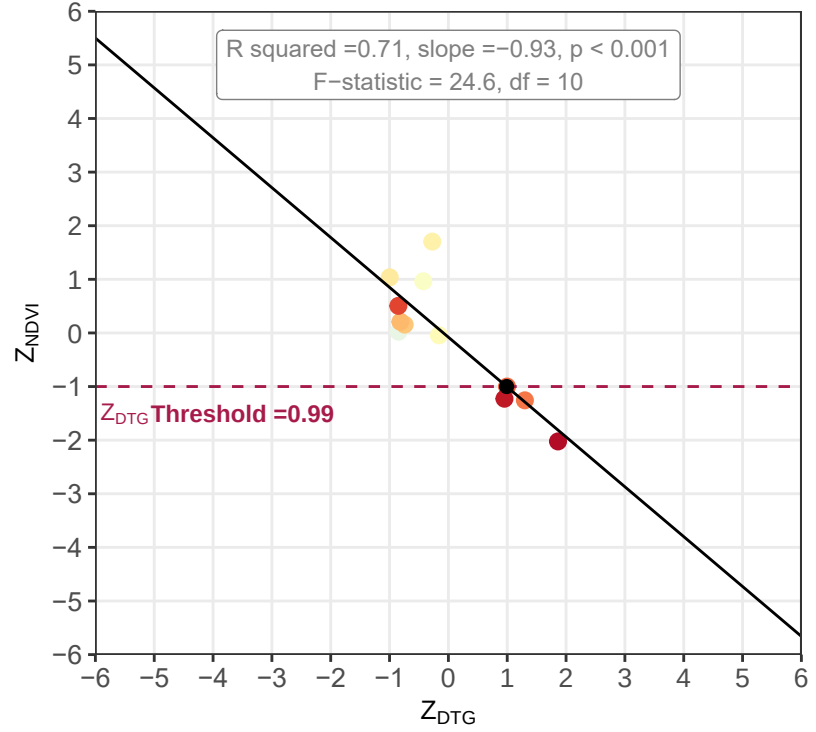
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c

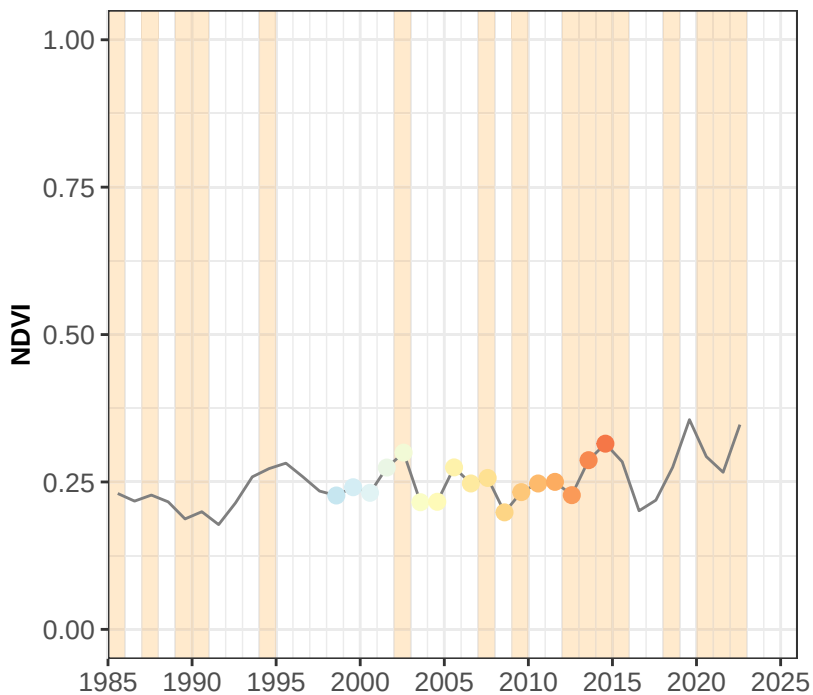


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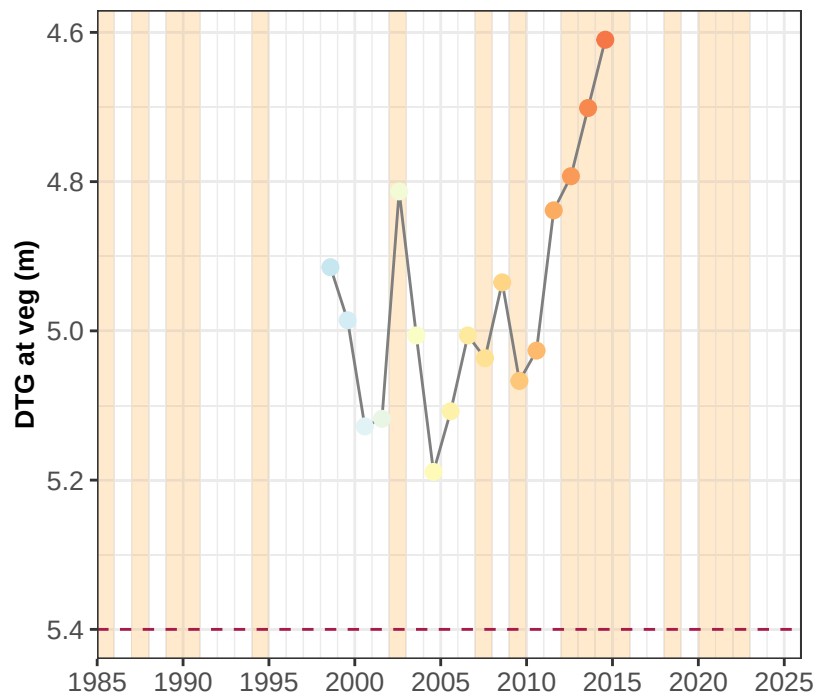


Typha (gdeID: 148829)

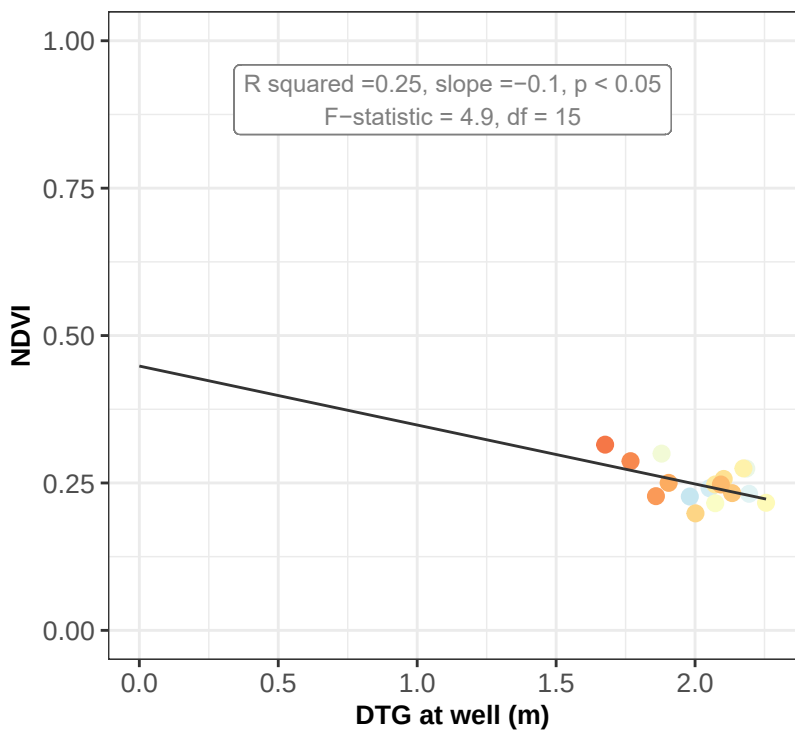
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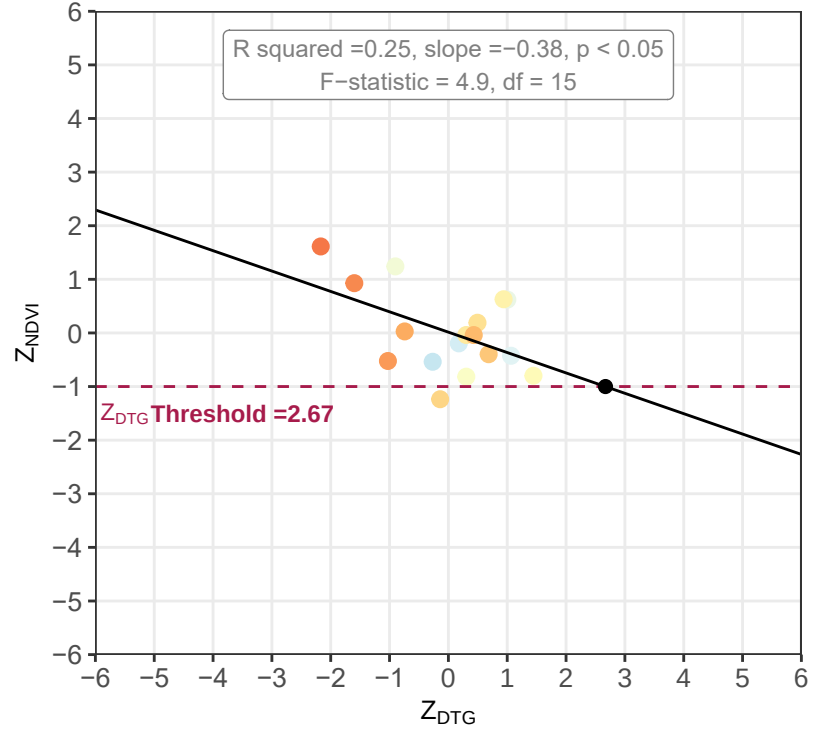
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c

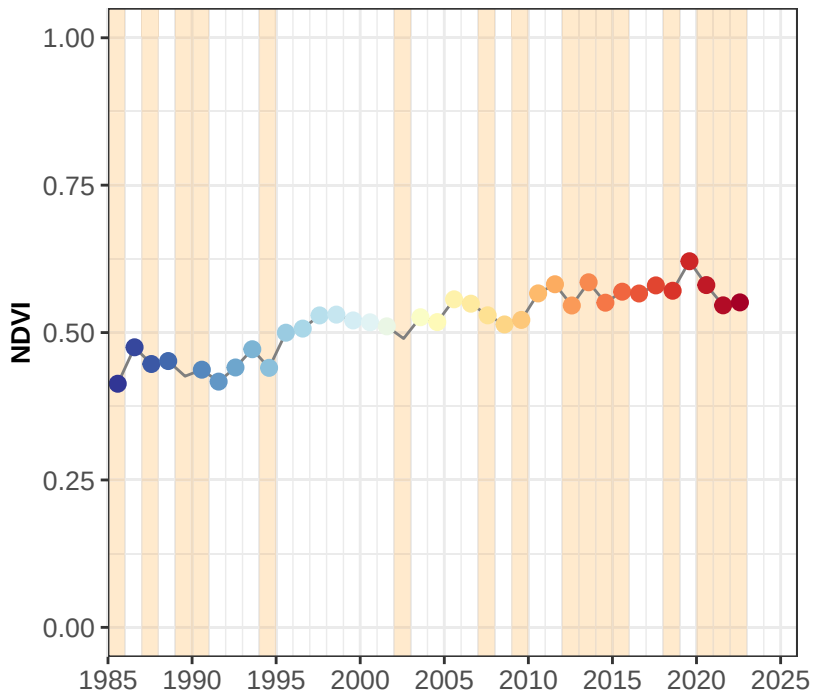


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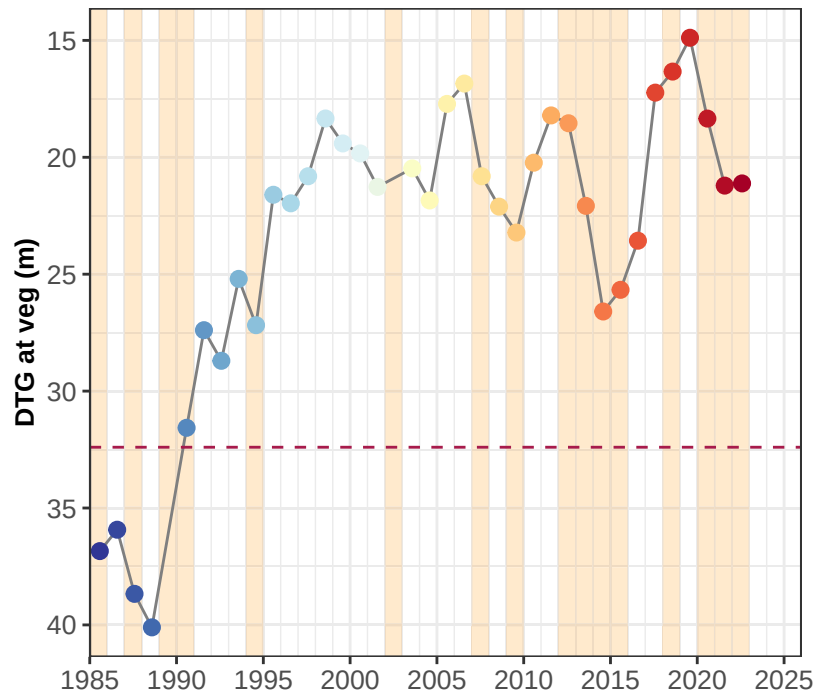


(gdeID: 148893)

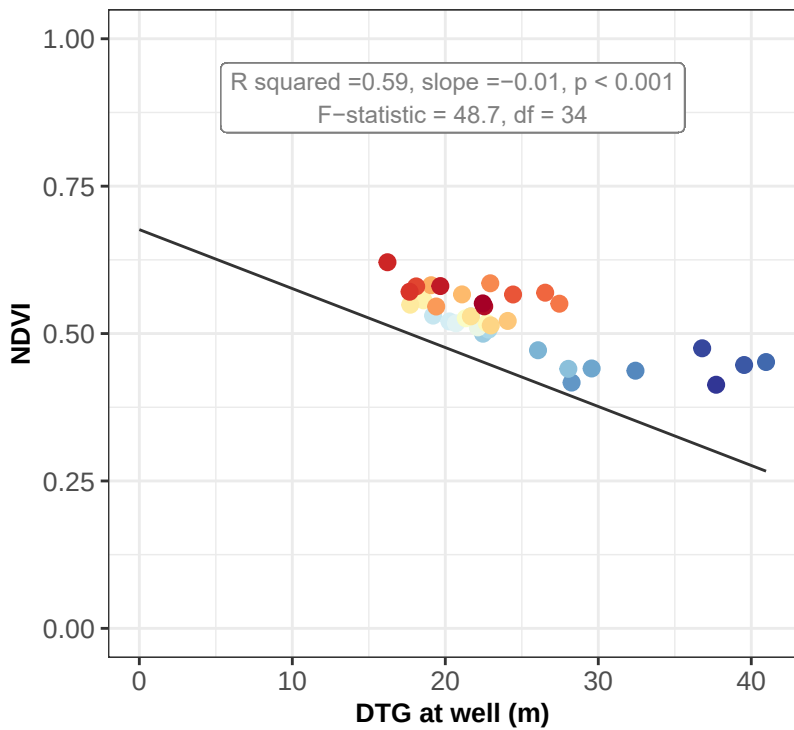
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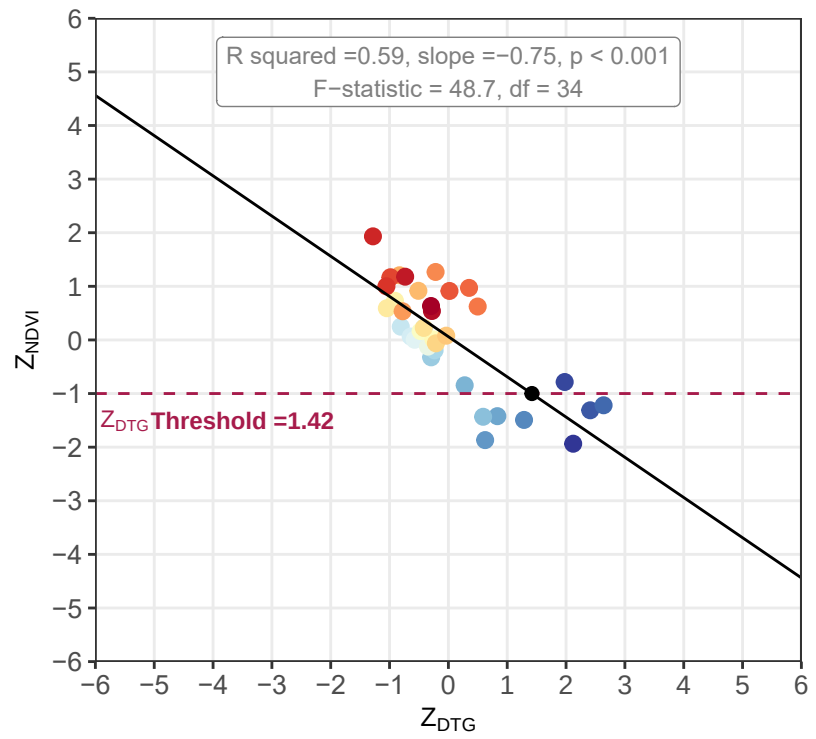
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c

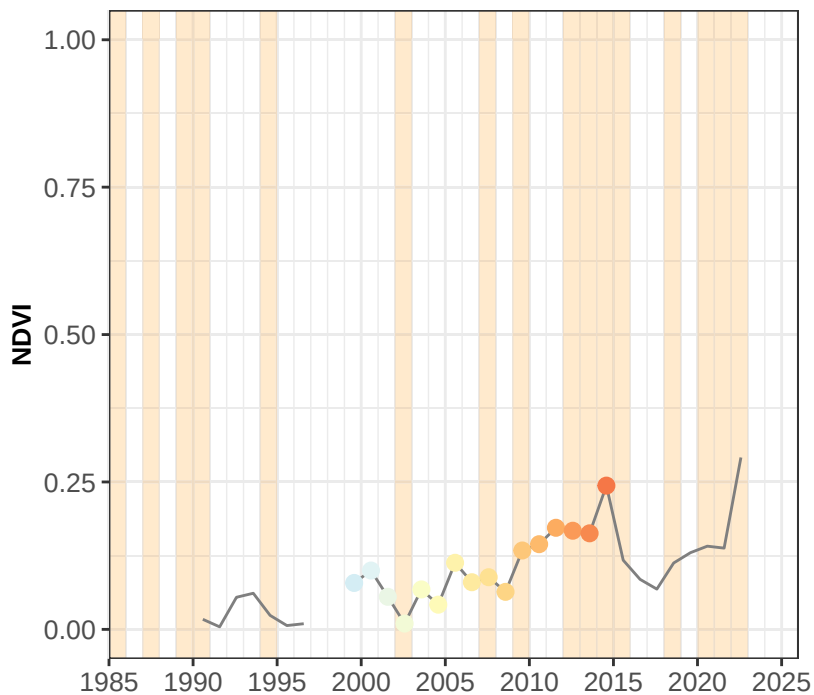


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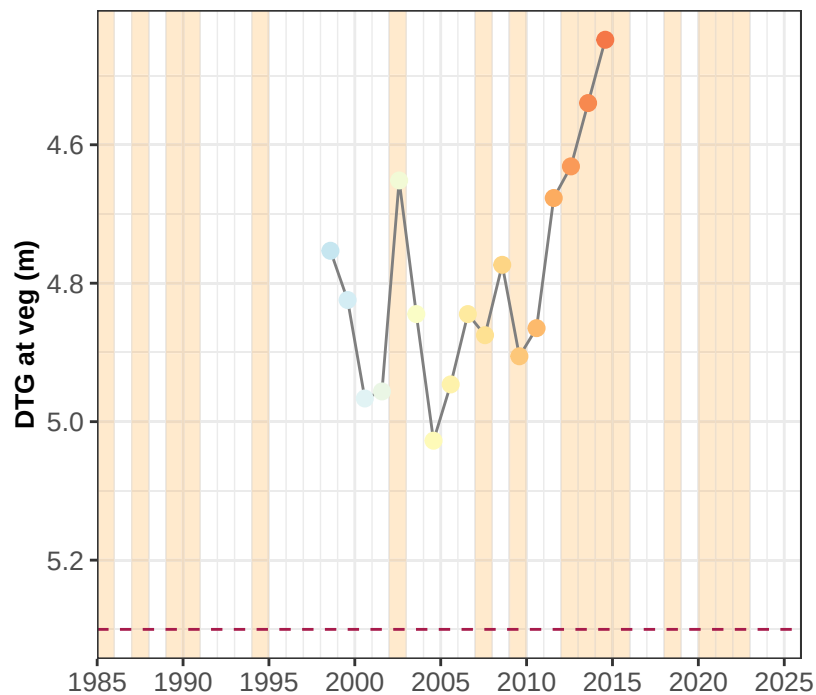


(gdeID: 148935)

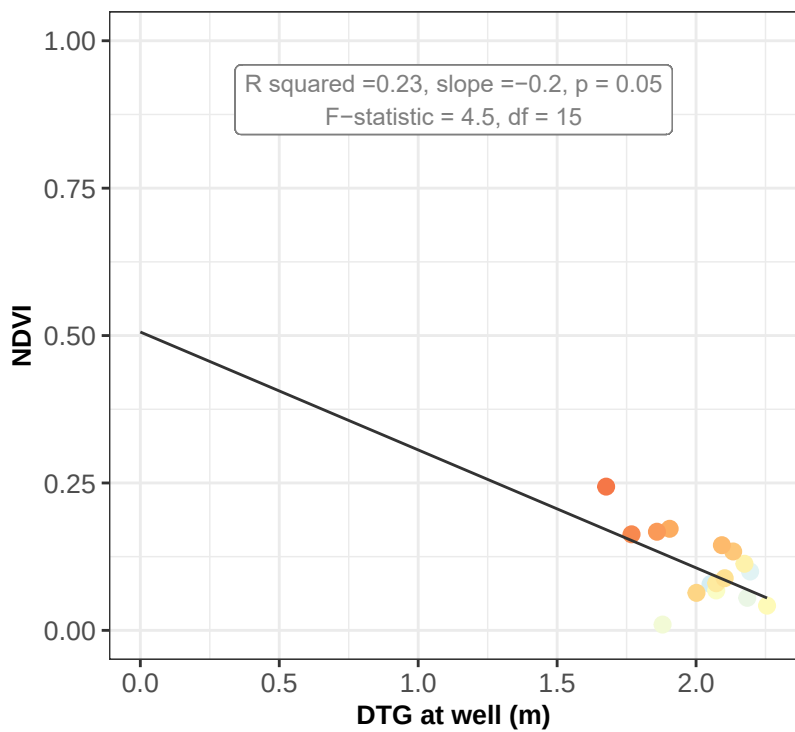
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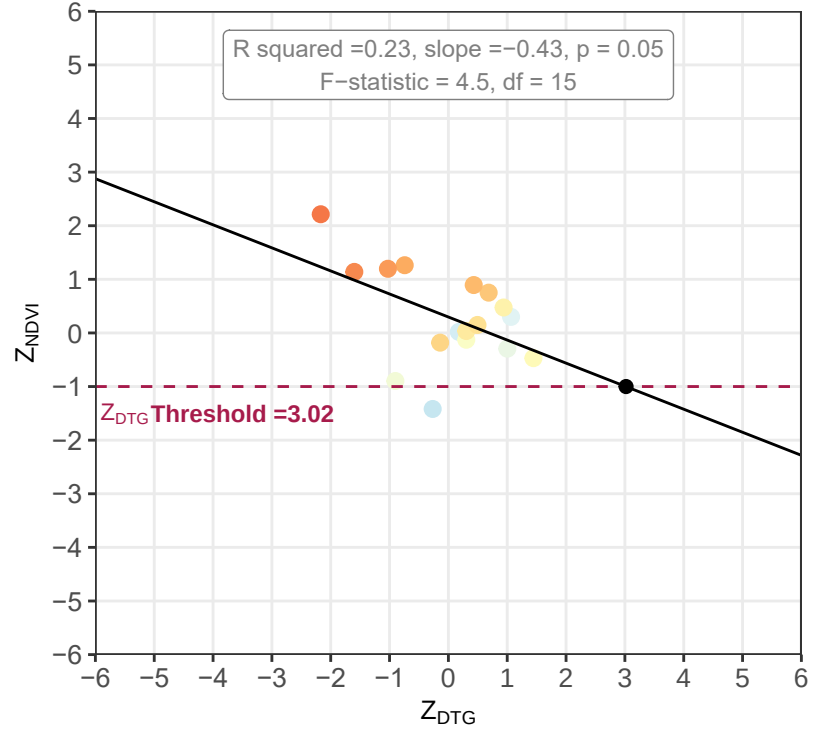
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c

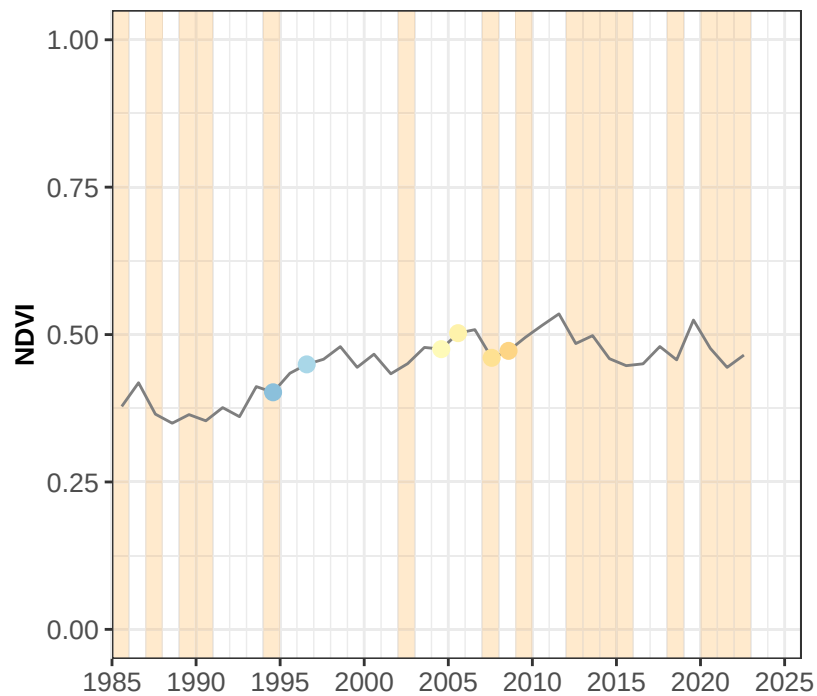


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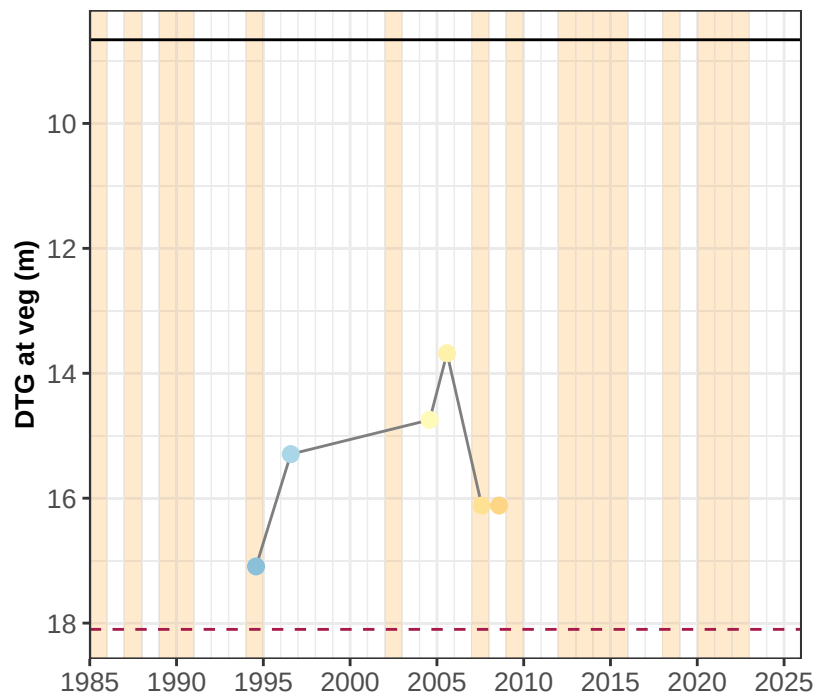


Quercus (gdeID: 148995)

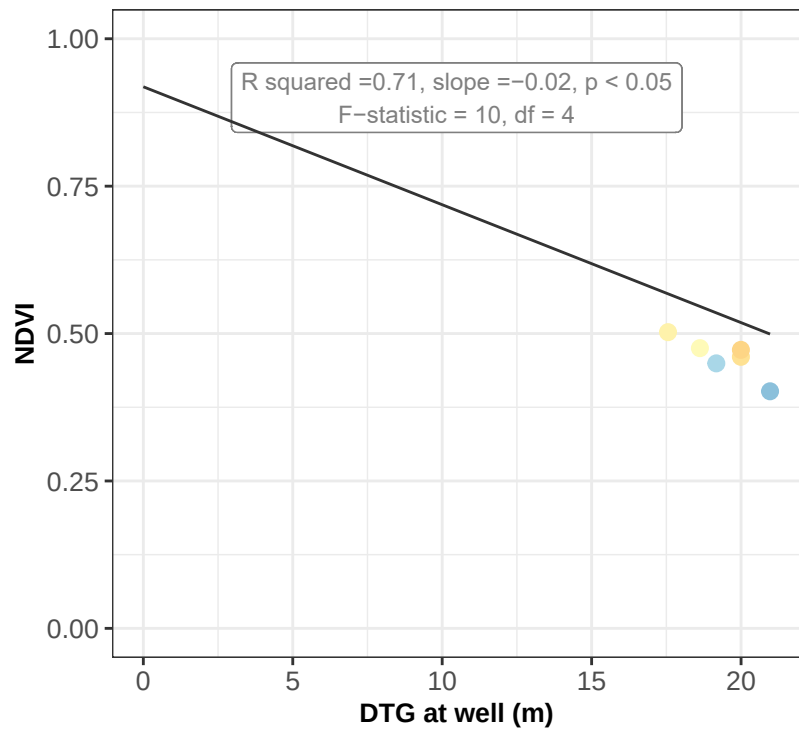
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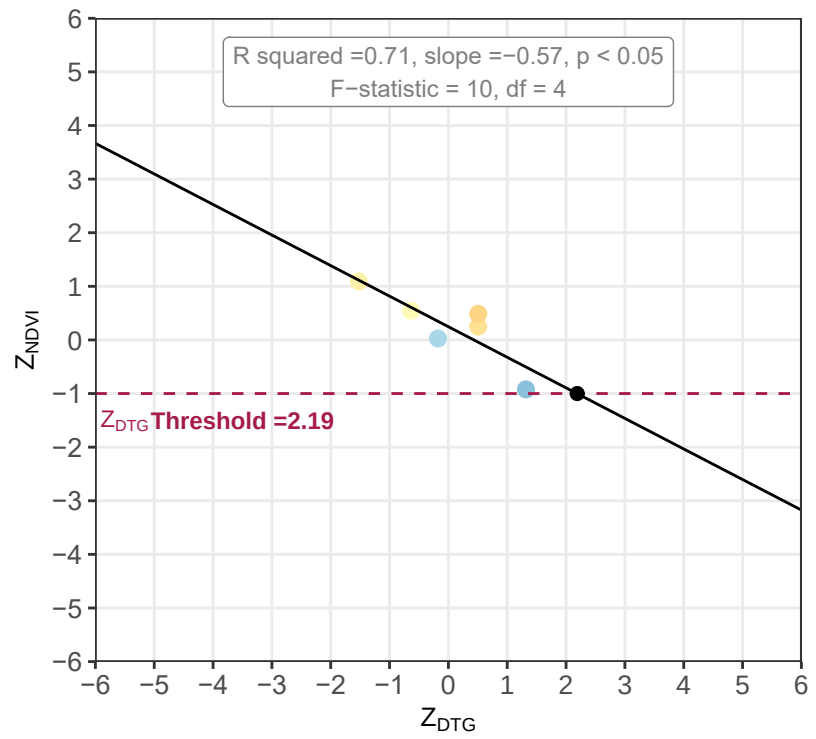
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c

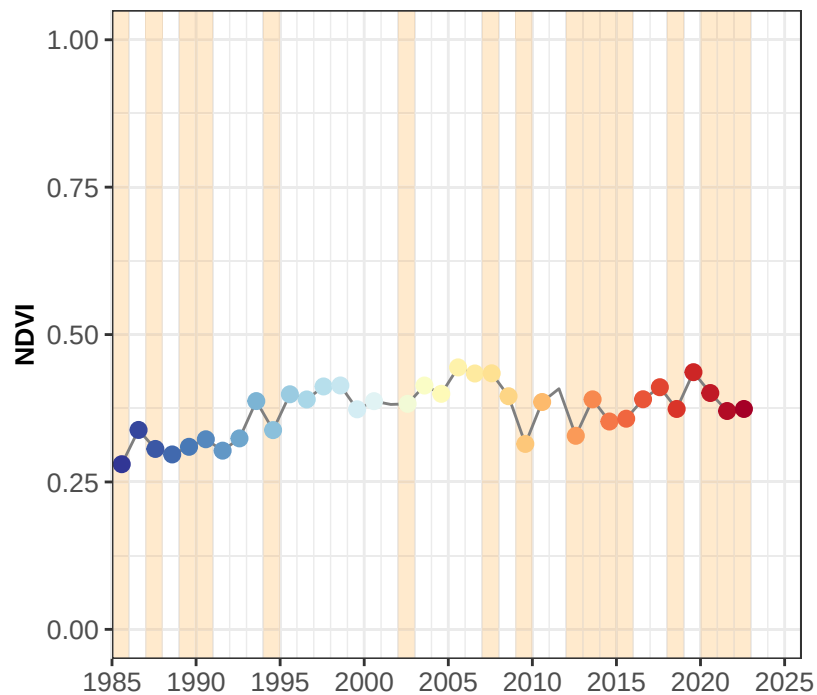


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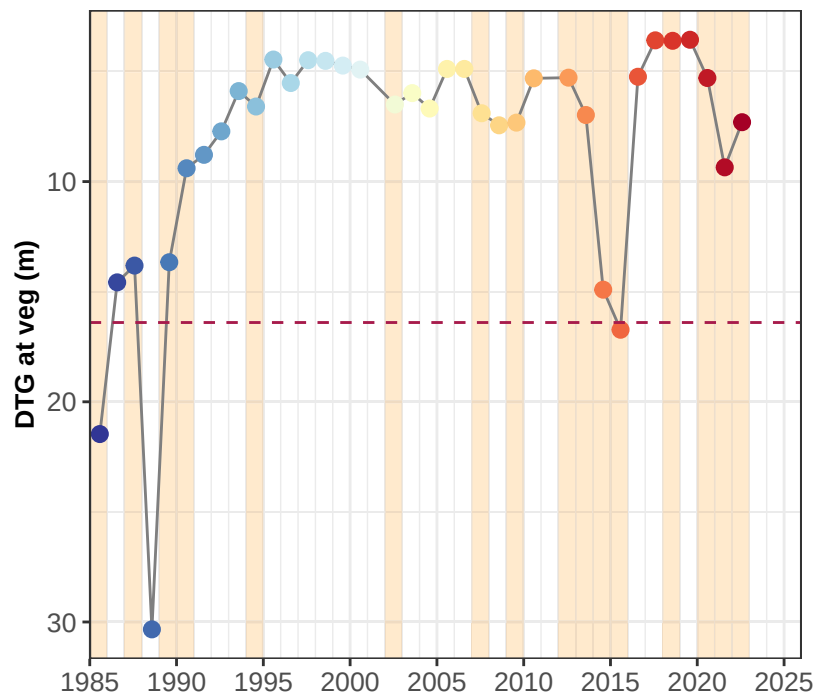


(gdeID: 149111)

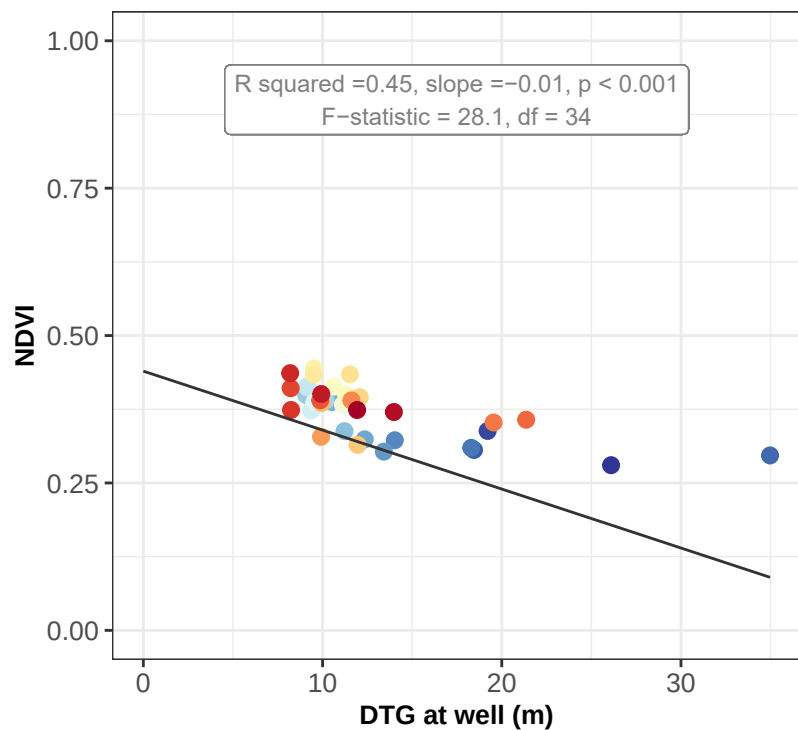
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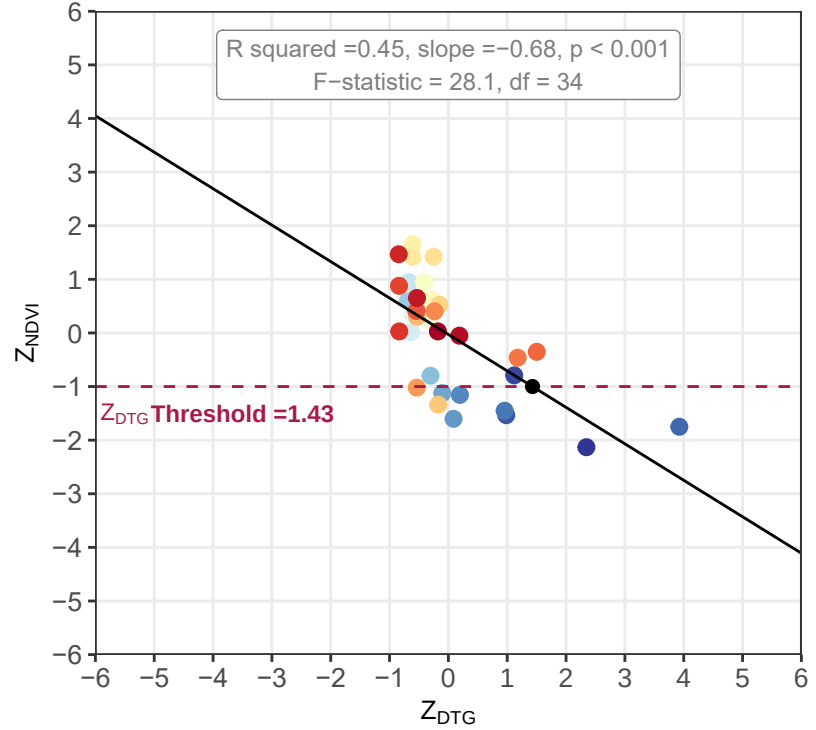
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c

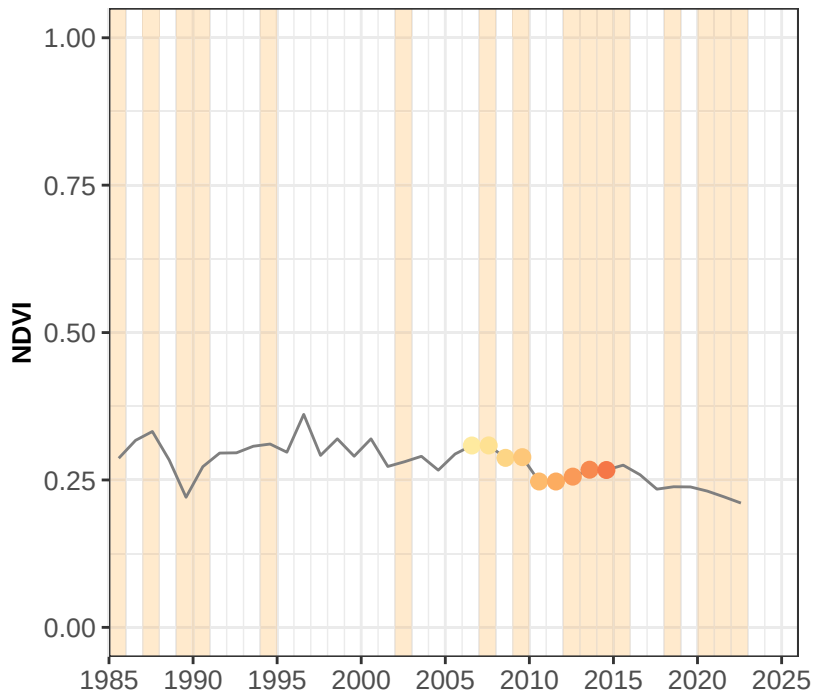


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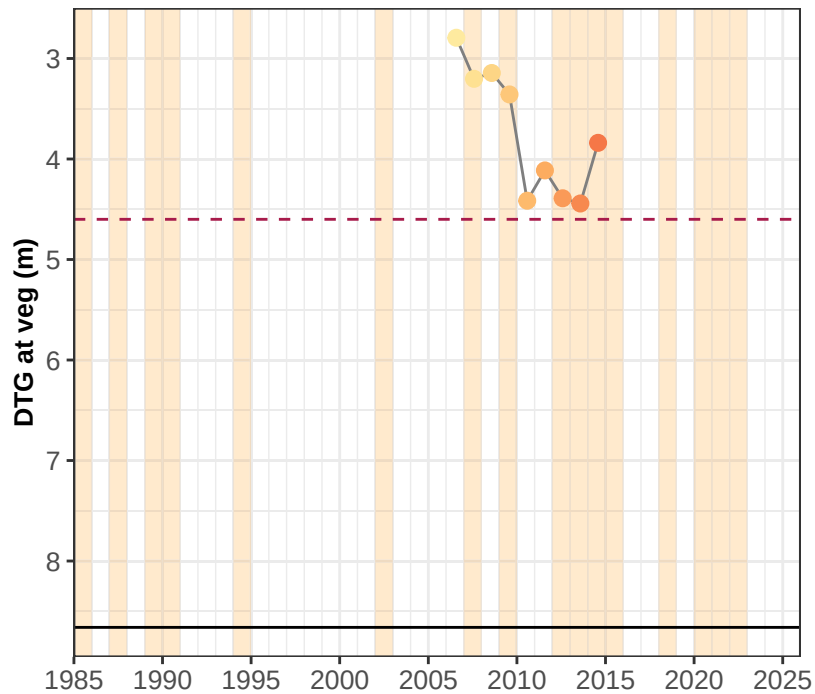


Quercus (gdeID: 1526)

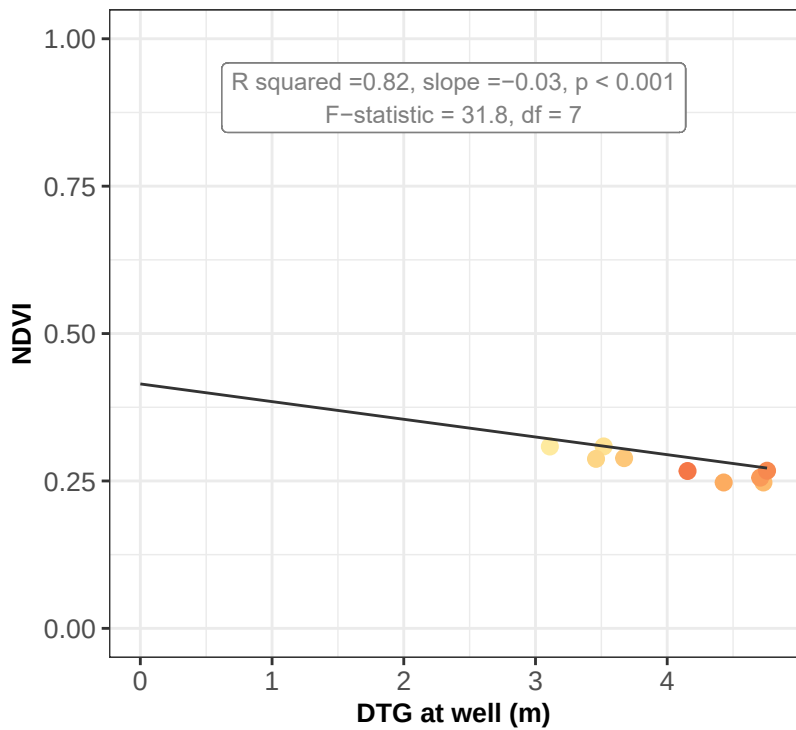
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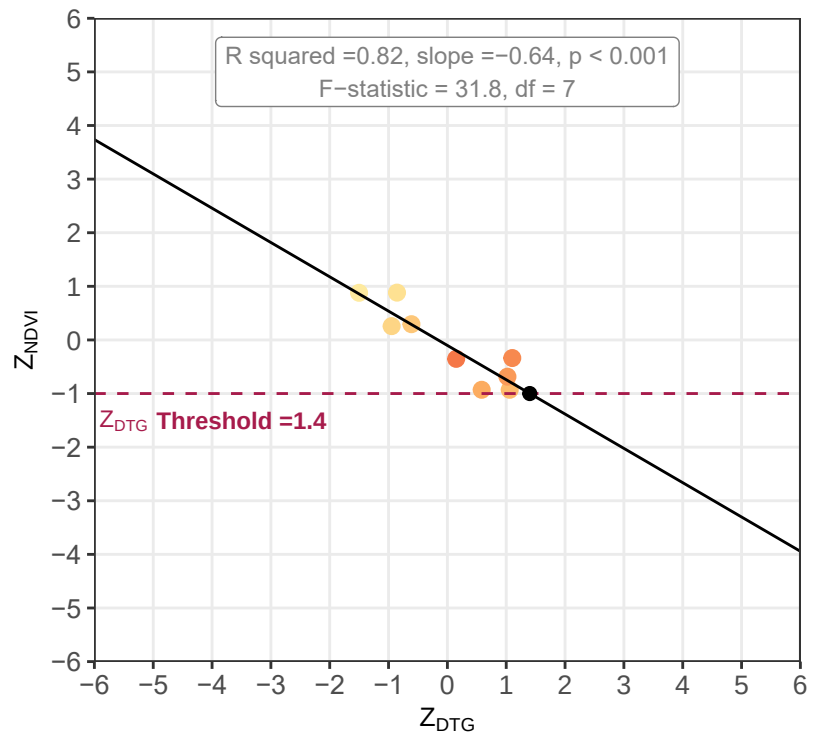
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c

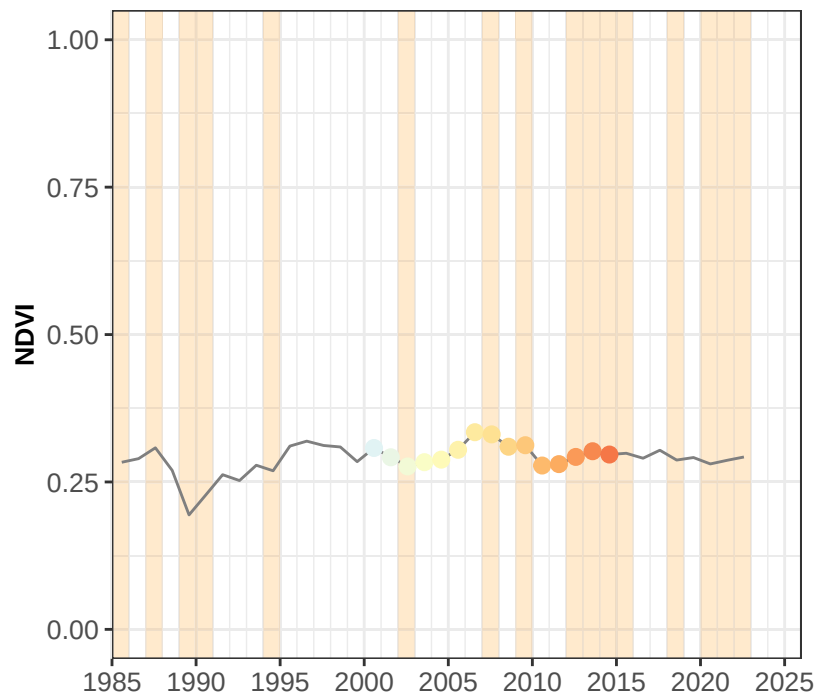


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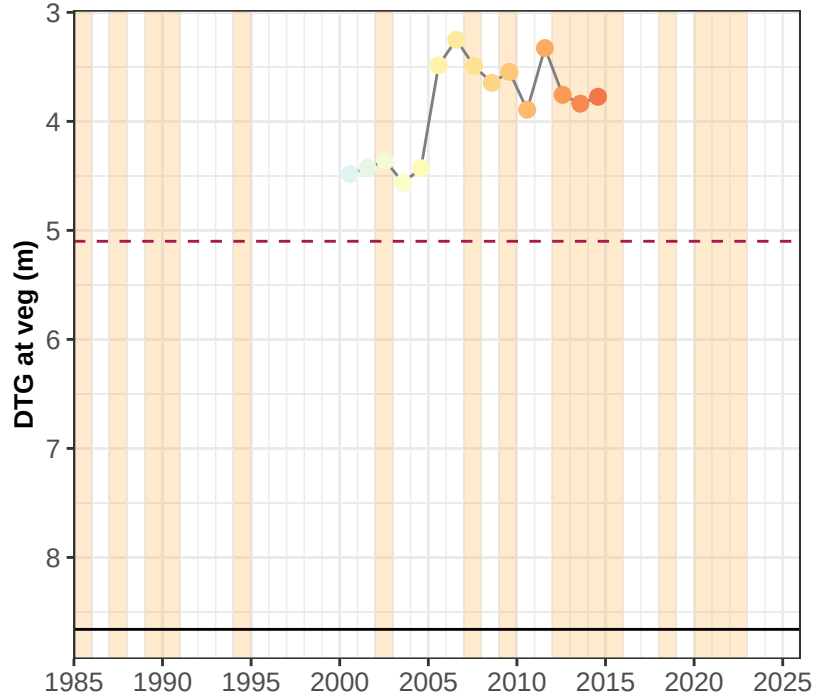


Quercus (gdeID: 1555)

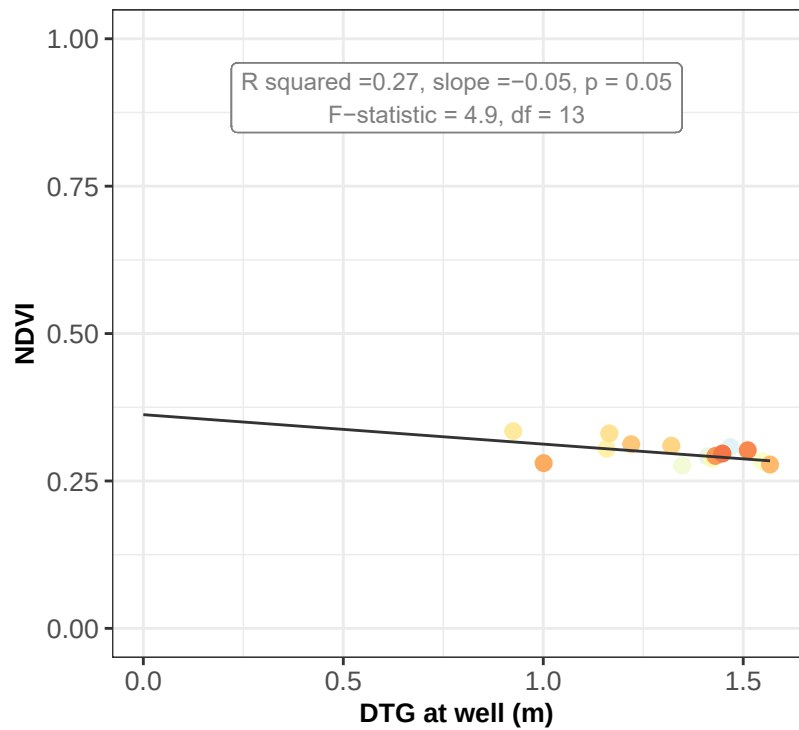
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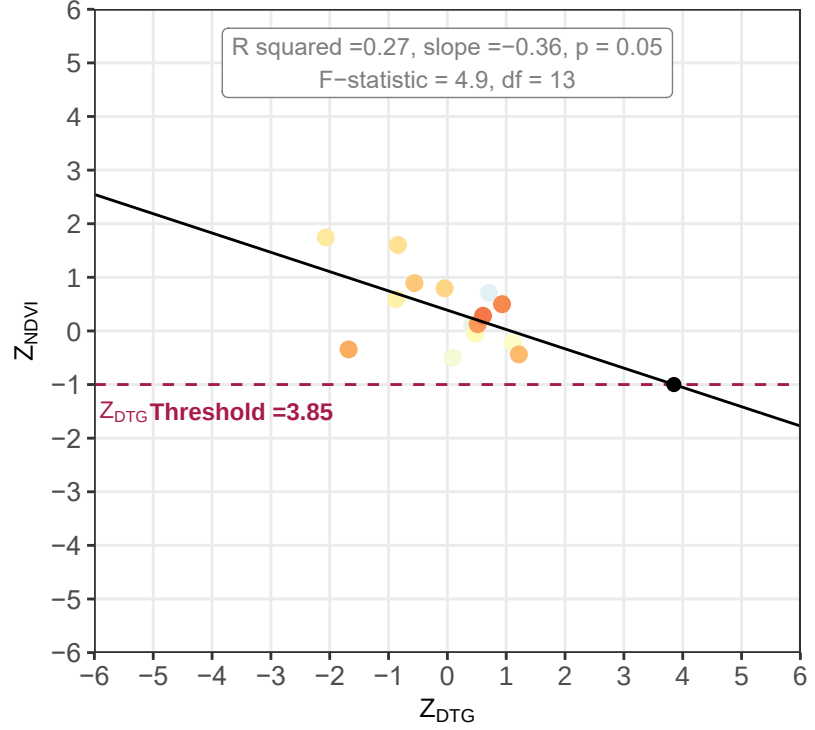
b



c

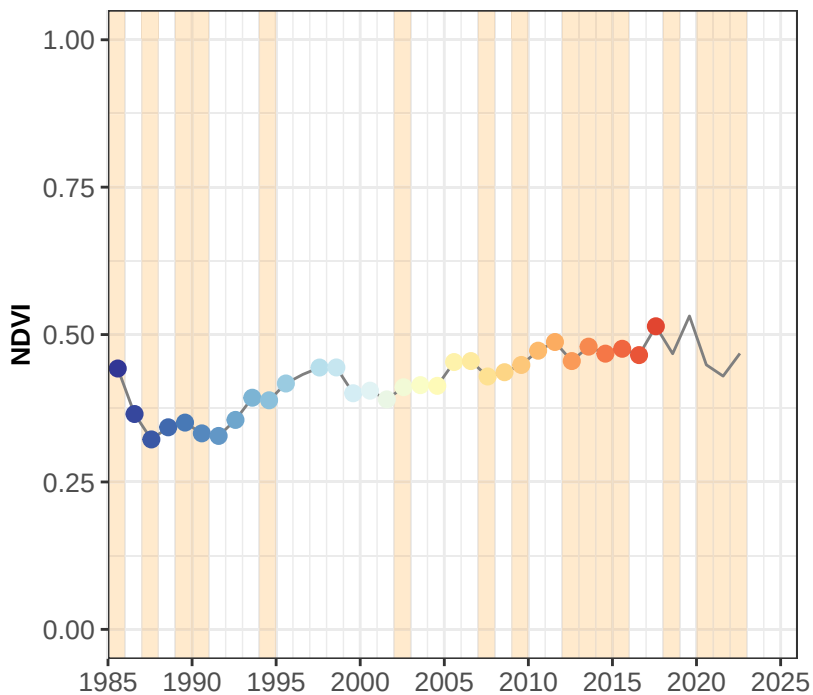


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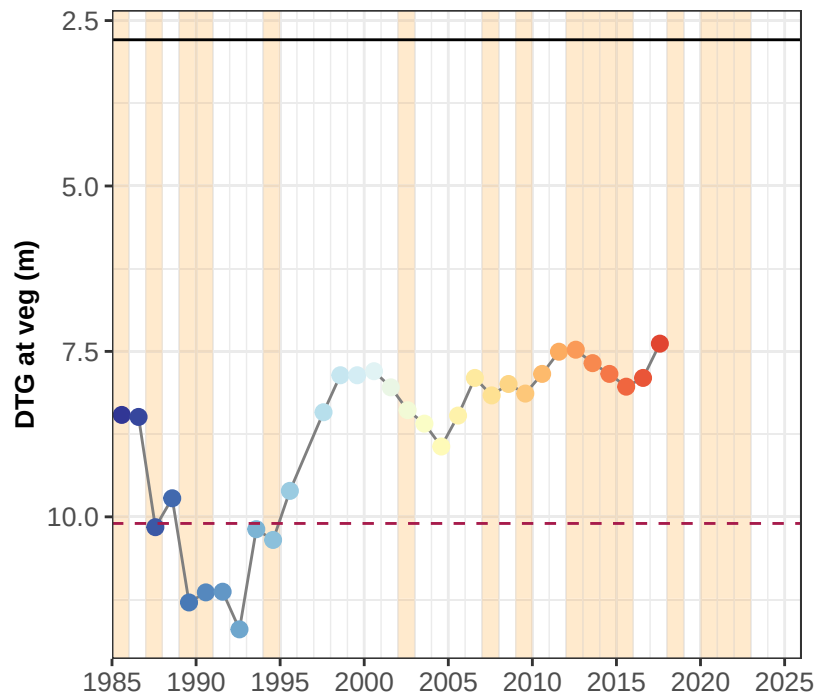


Populus (gdeID: 15767)

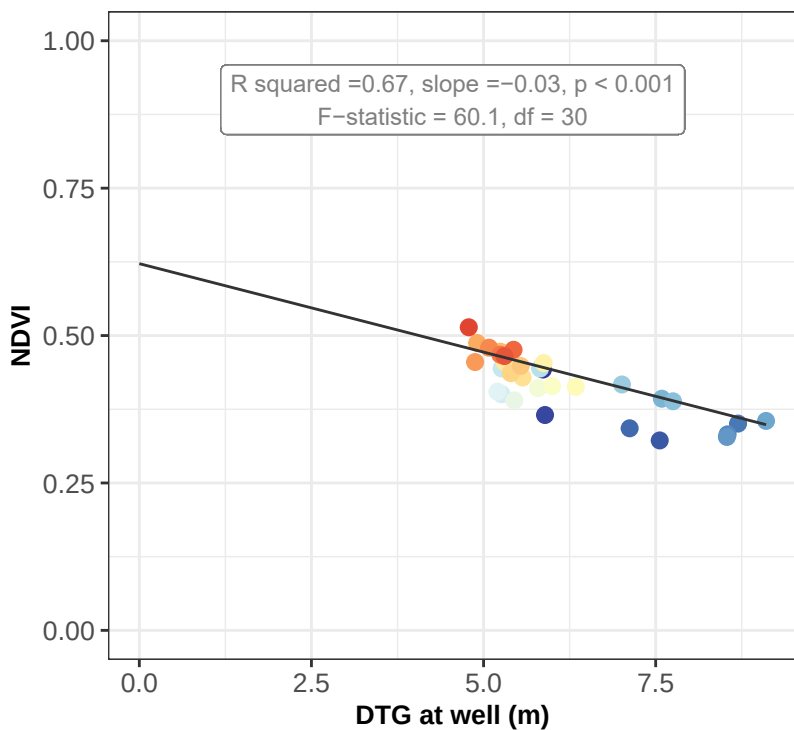
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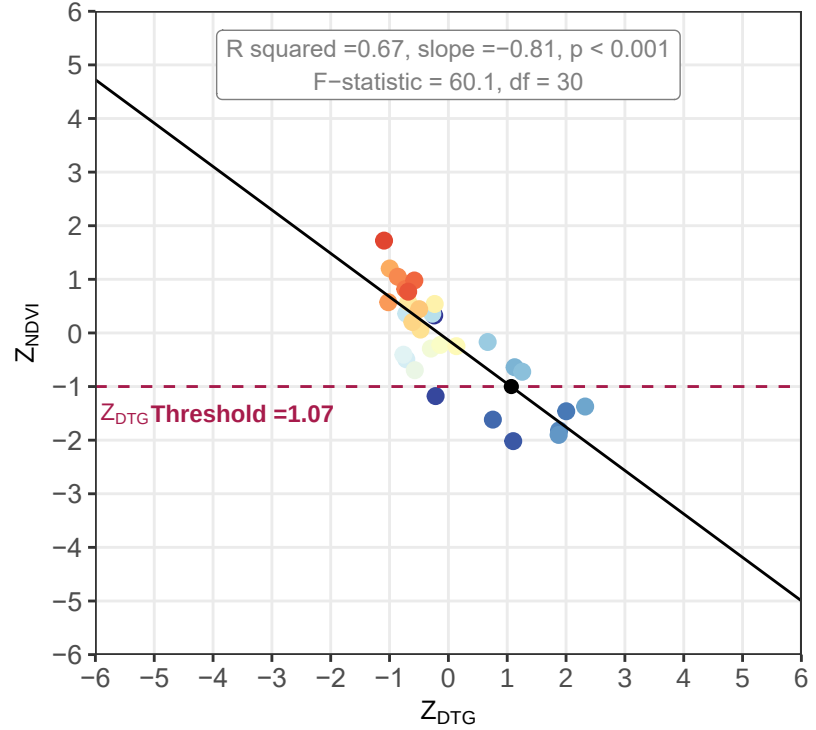
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c

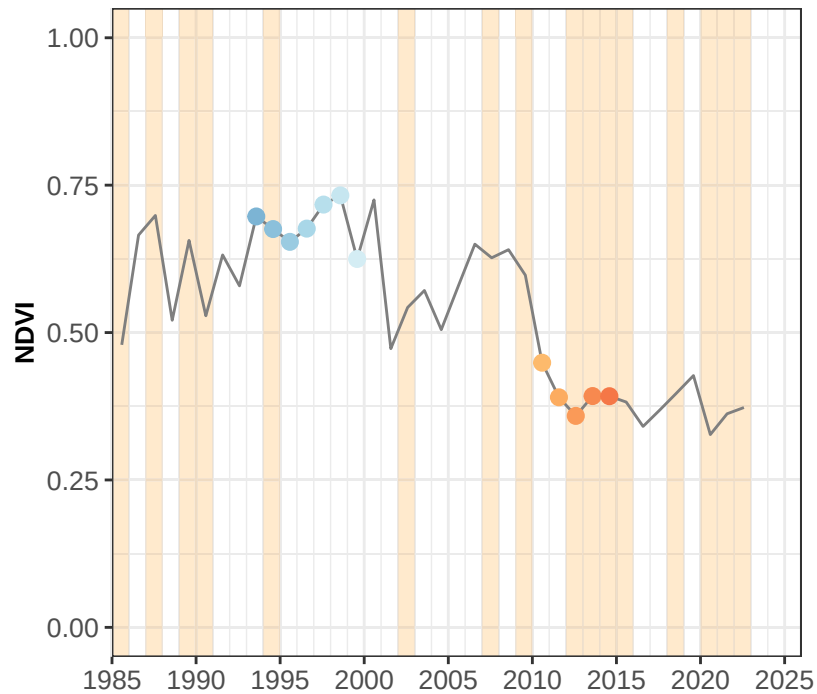


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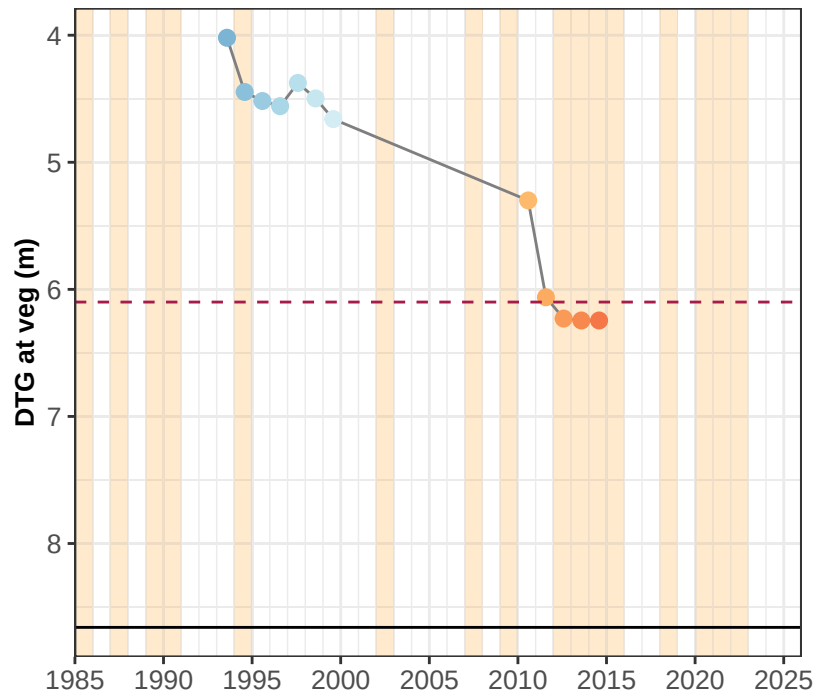


Quercus (gdeID: 16520)

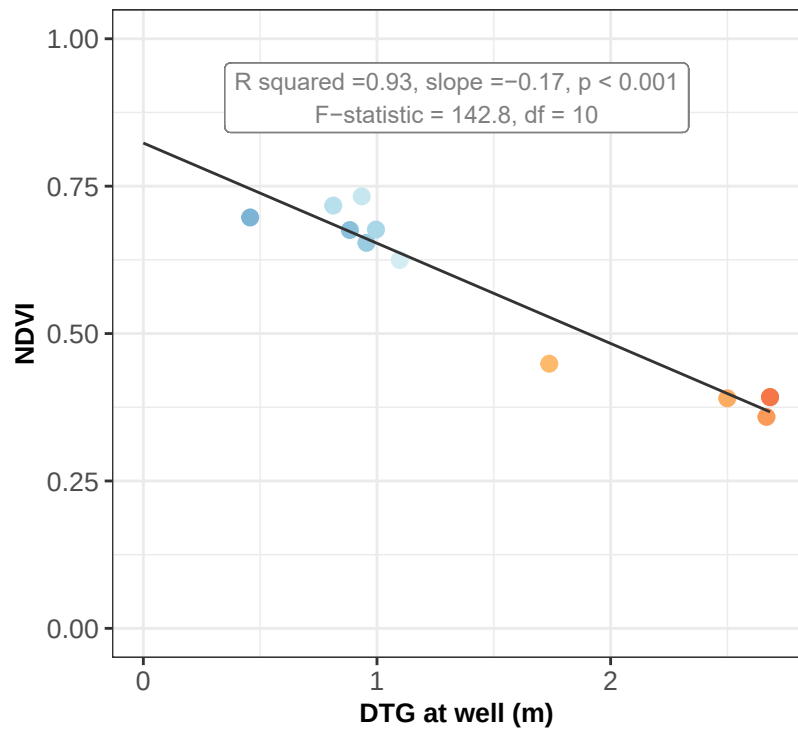
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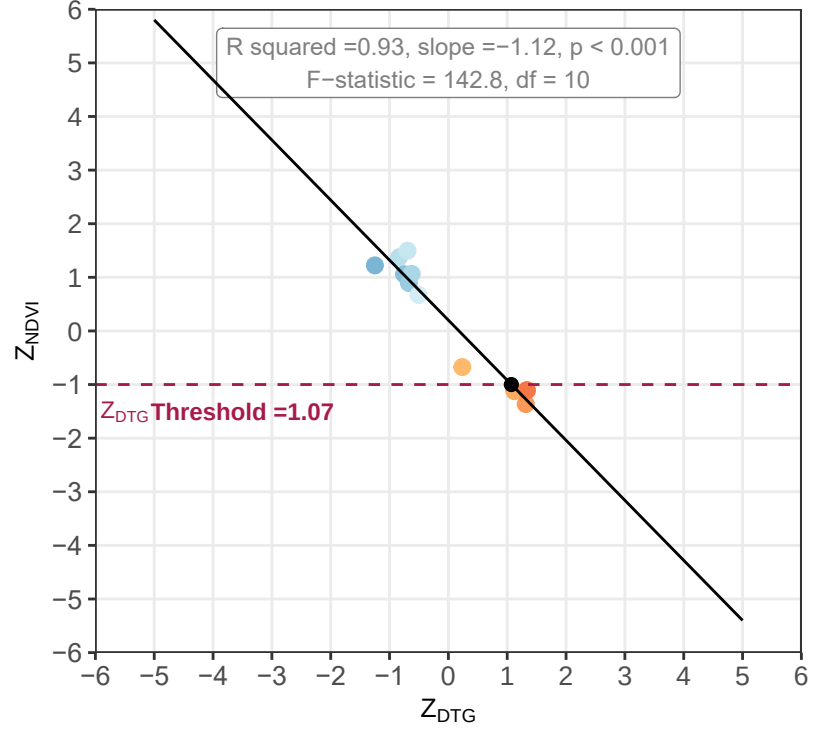
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c

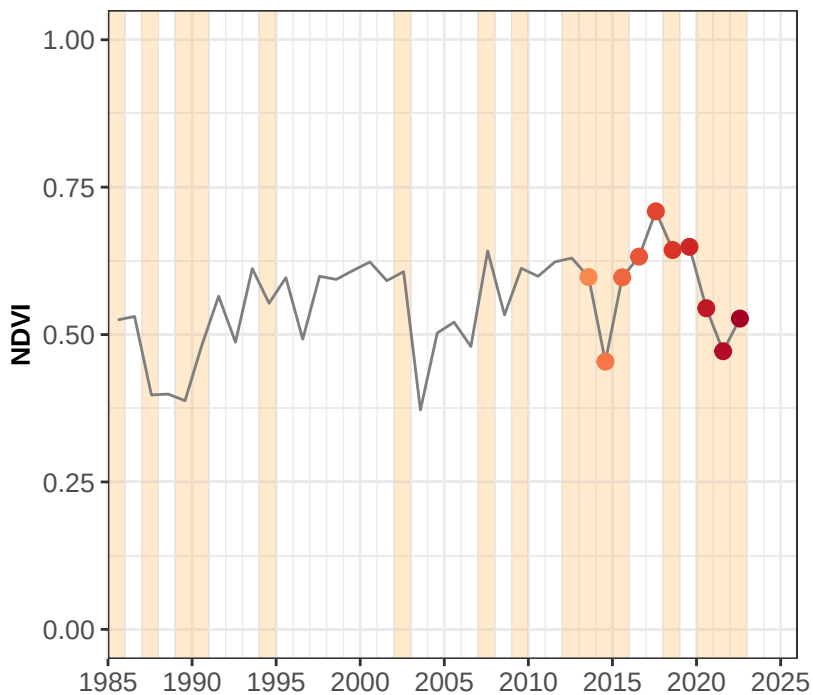


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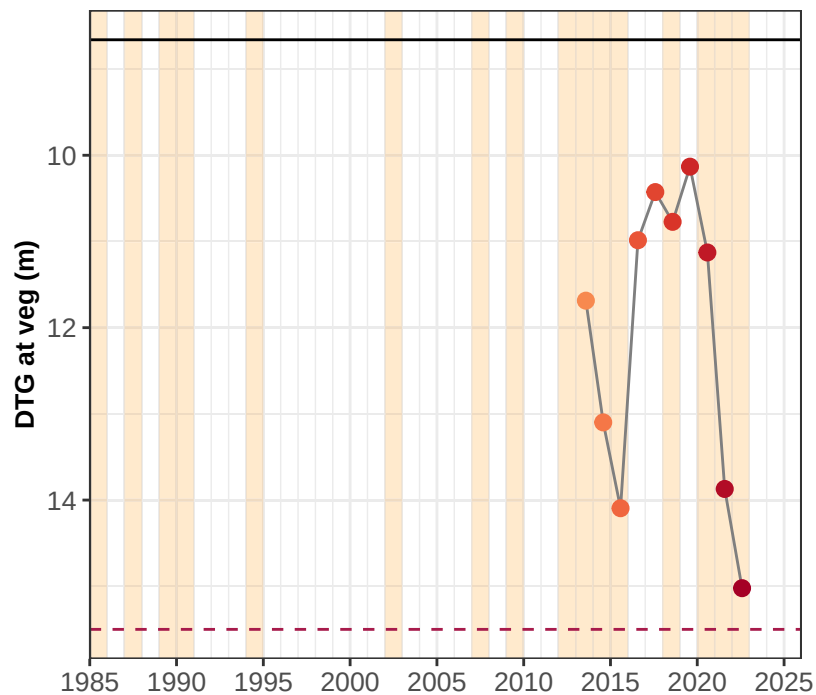


Quercus (gdeID: 17246)

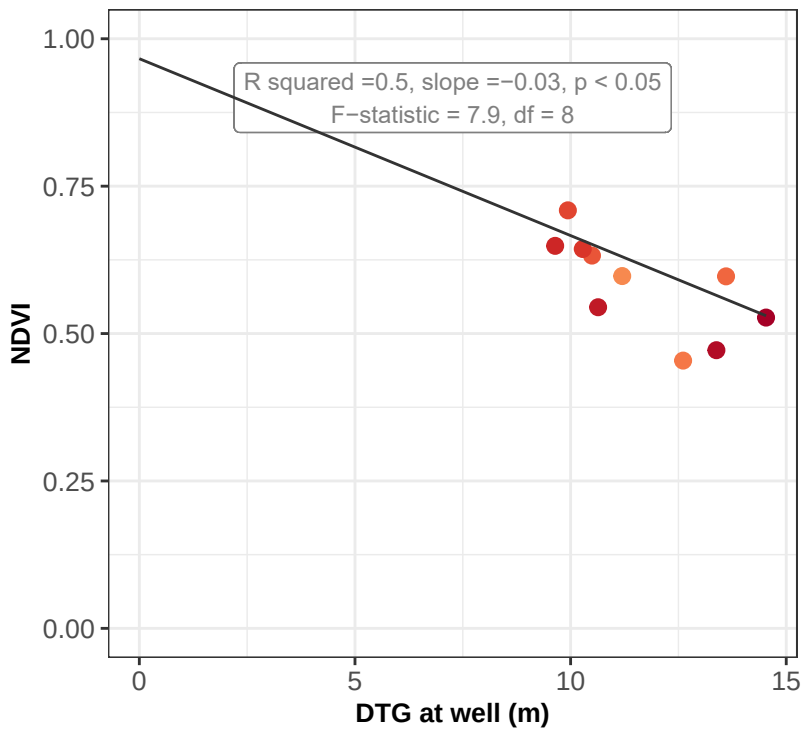
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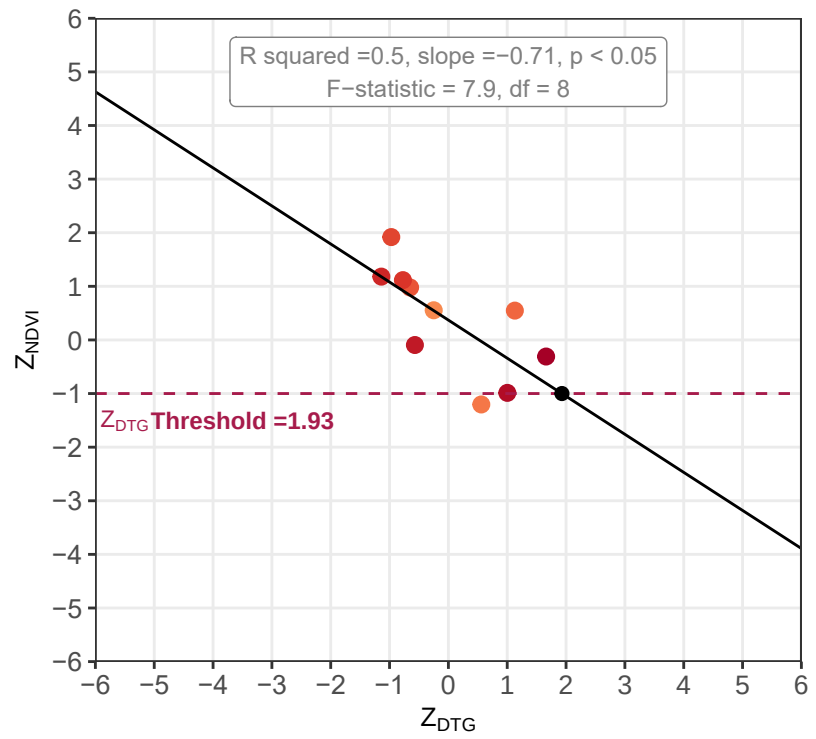
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c

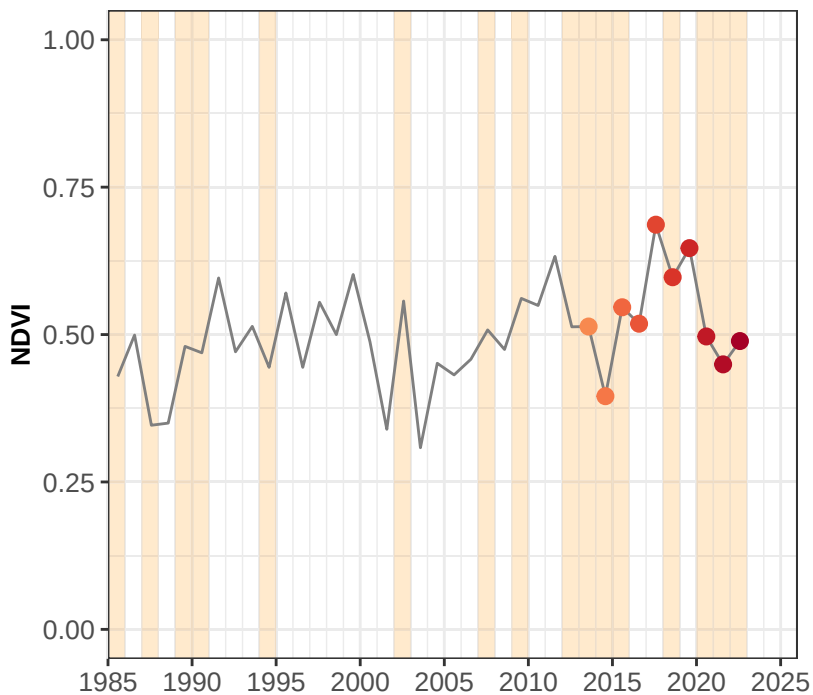


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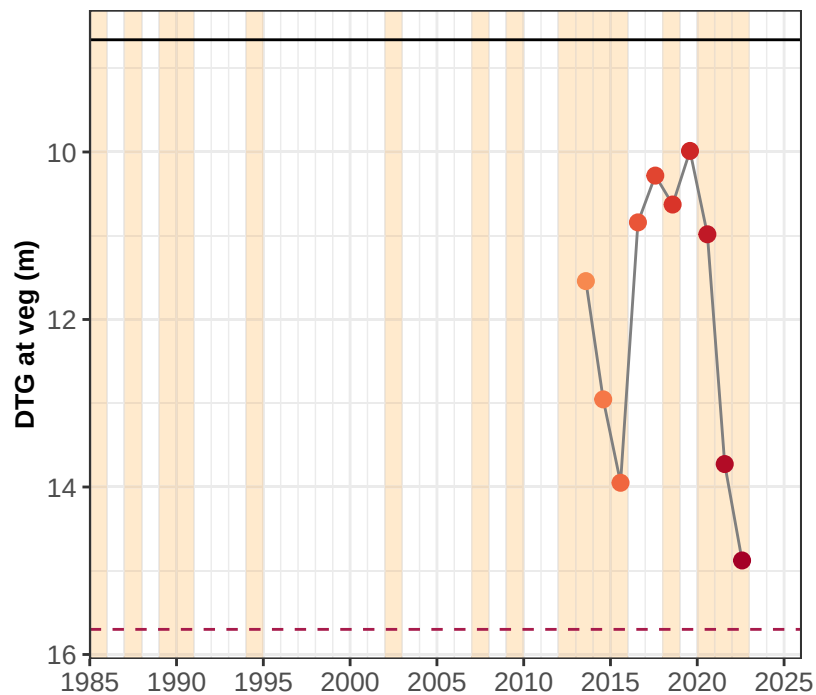


Quercus (gdeID: 17251)

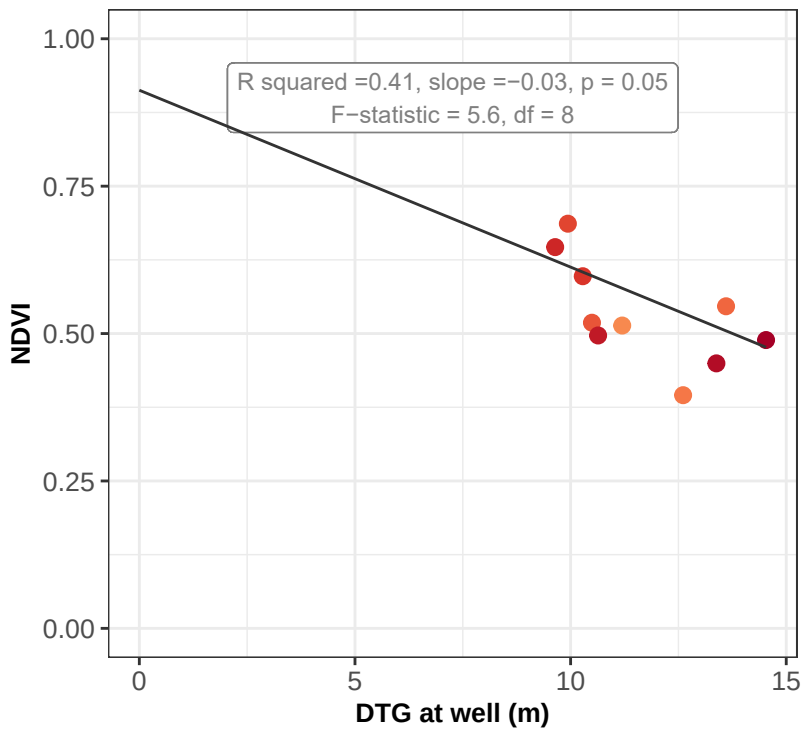
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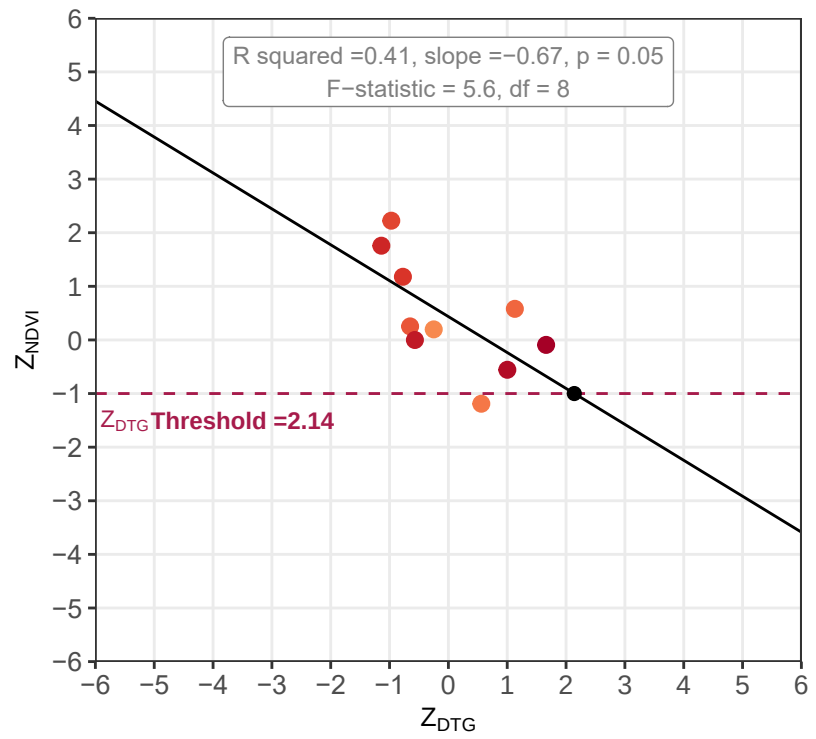
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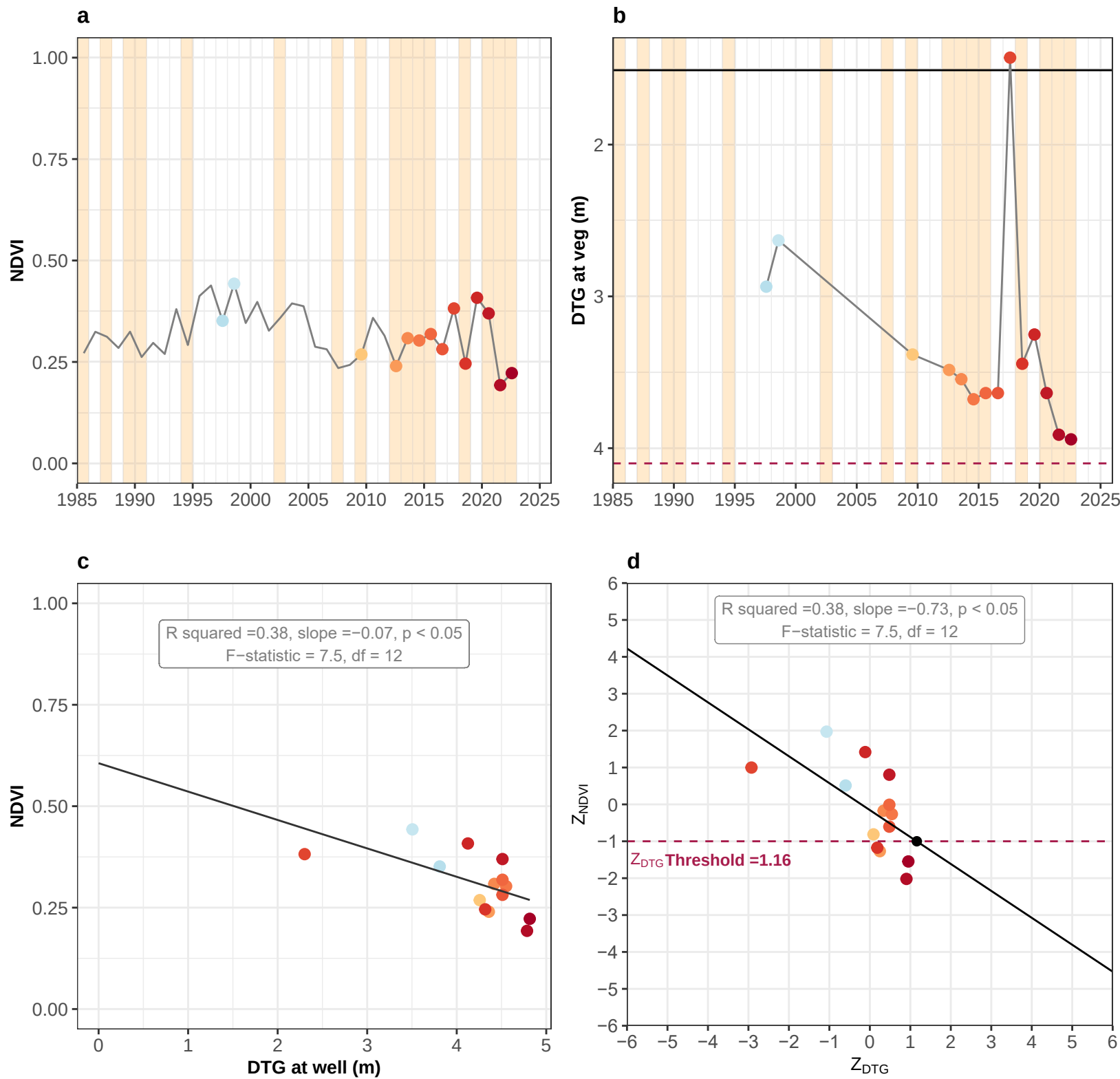
c



d

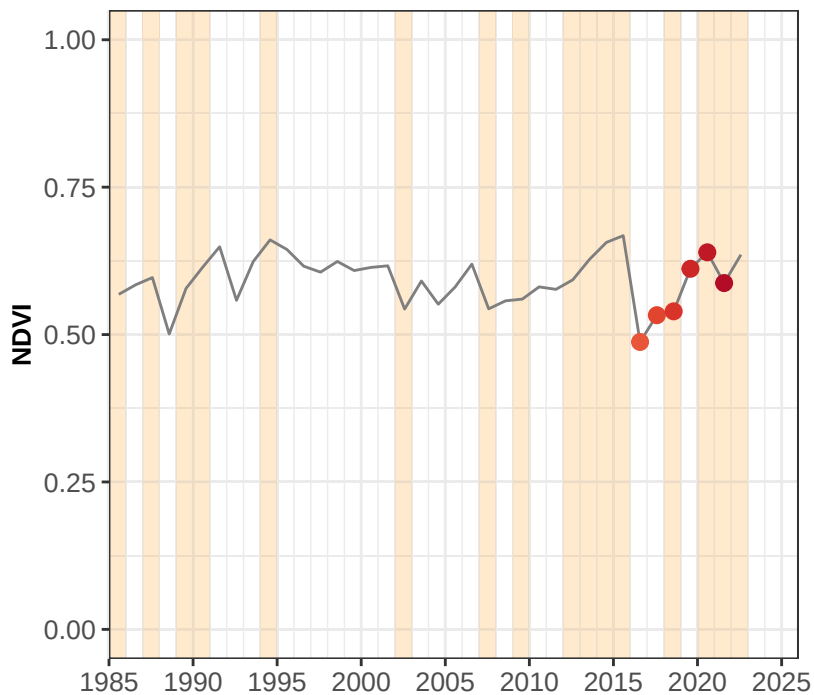


Salix (gdeID: 19163)

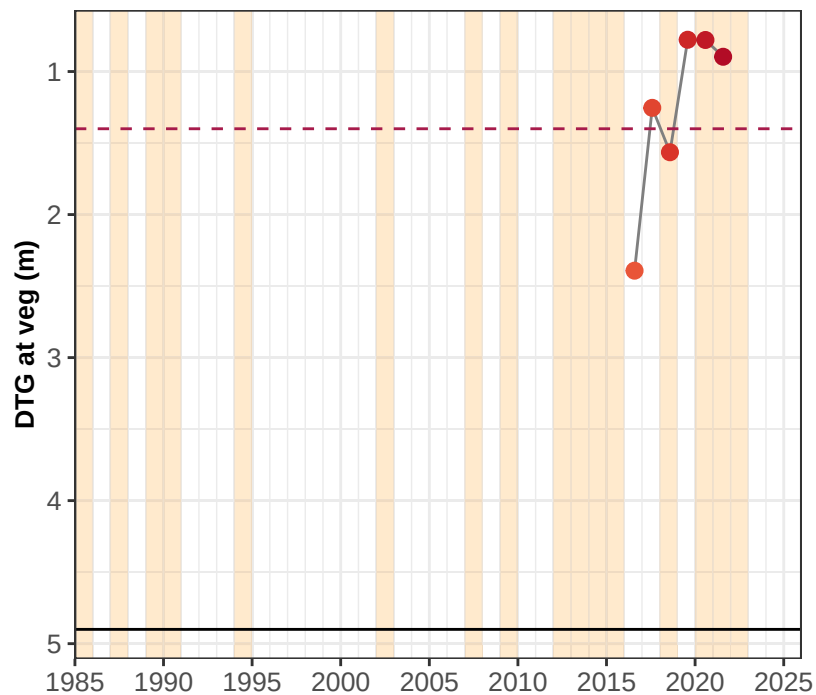


Arundo (gdeID: 200302)

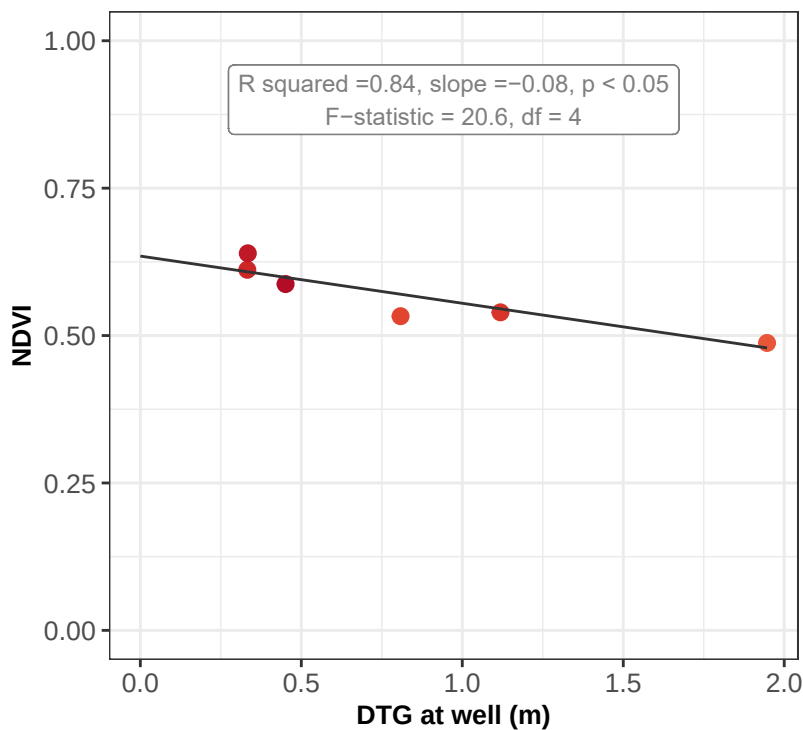
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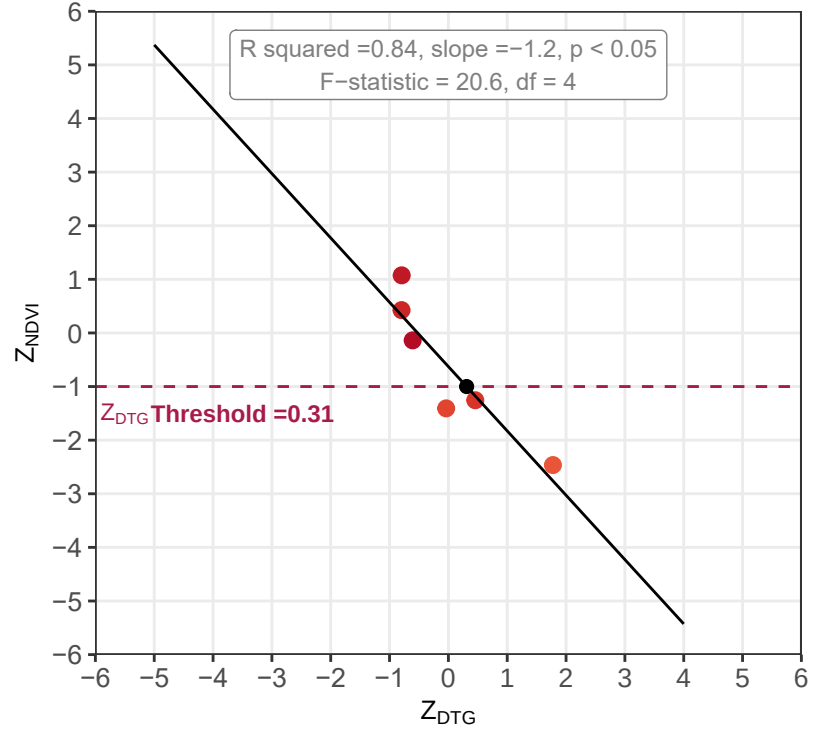
b



c

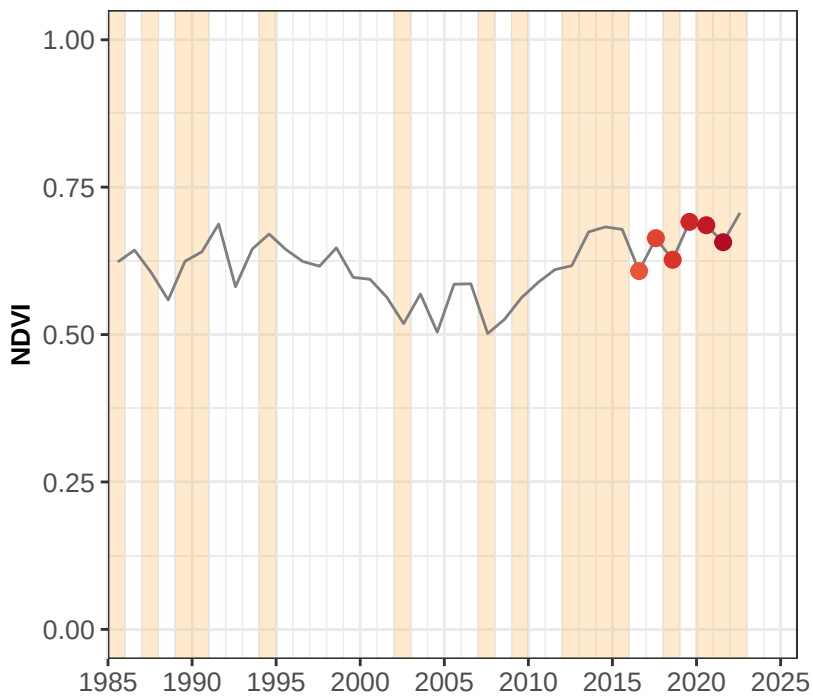


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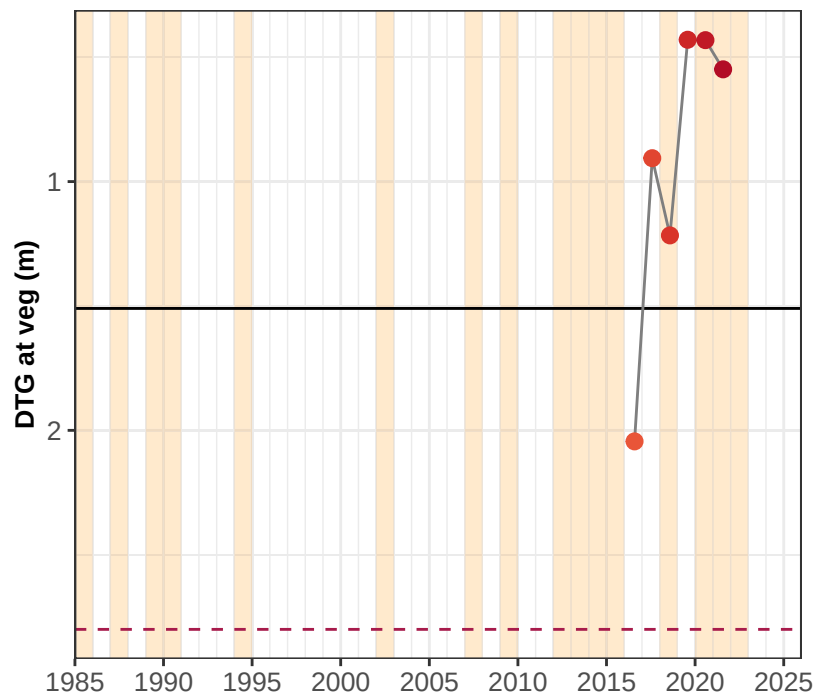


Salix (gdeID: 200451)

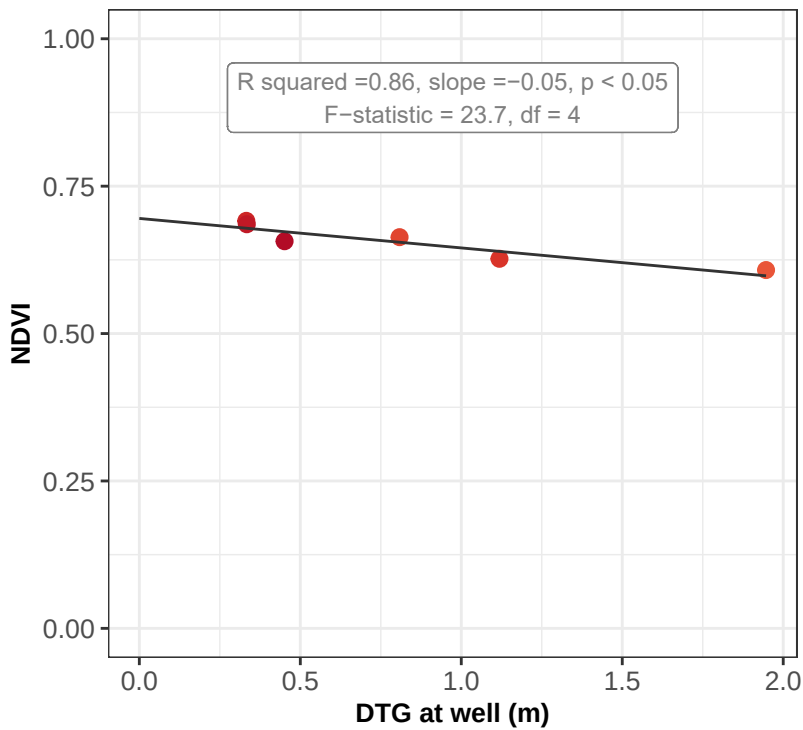
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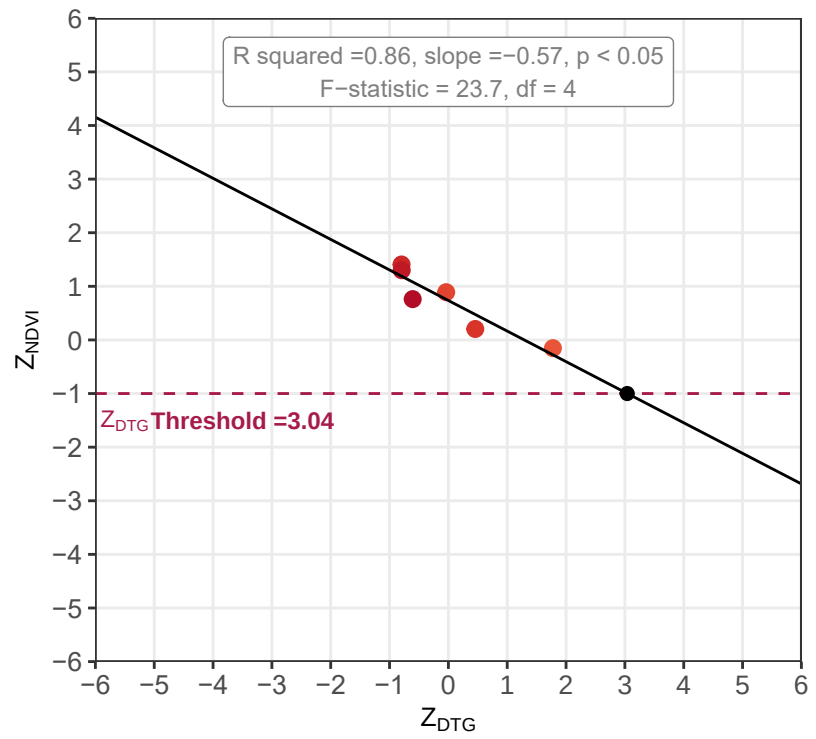
b



c

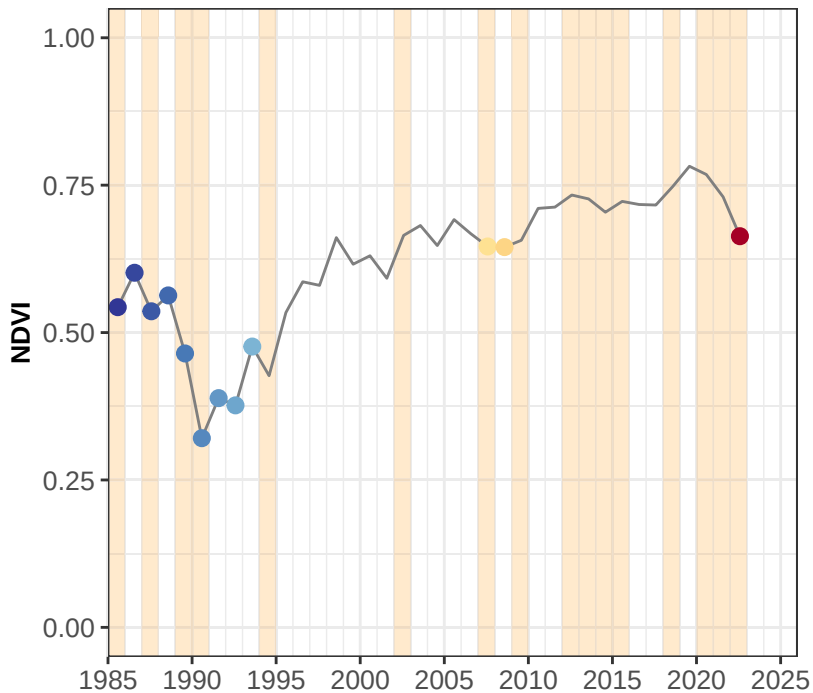


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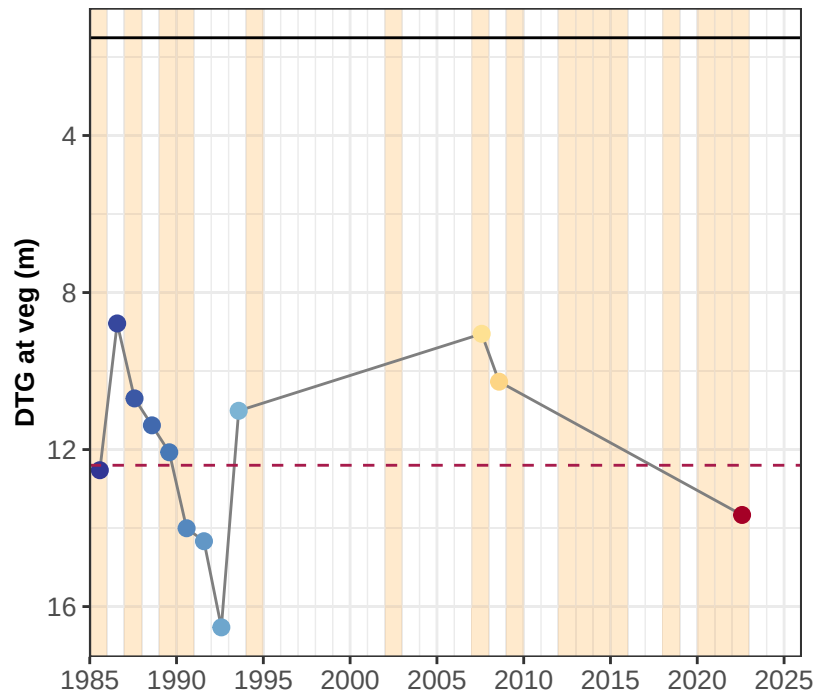


Salix (gdeID: 20063)

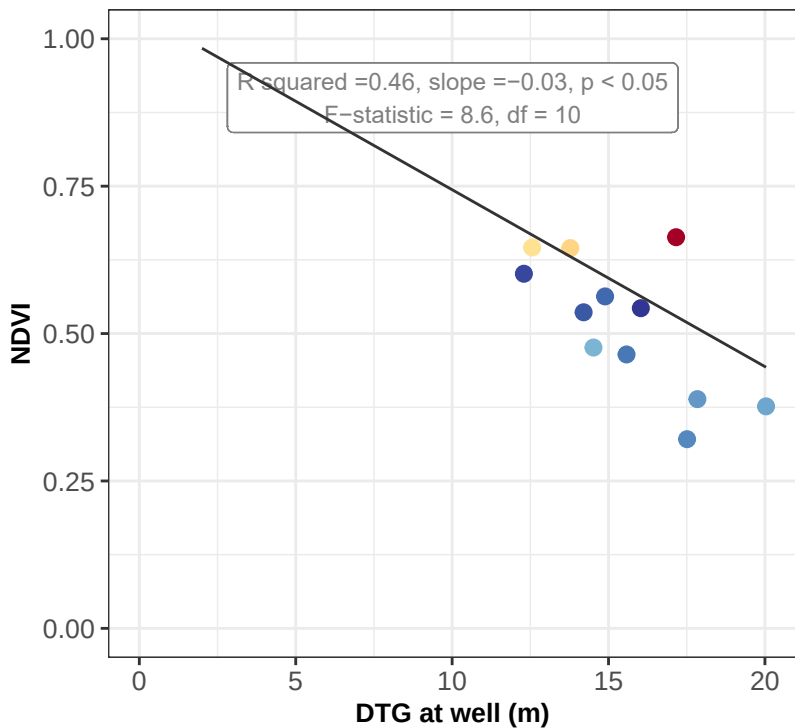
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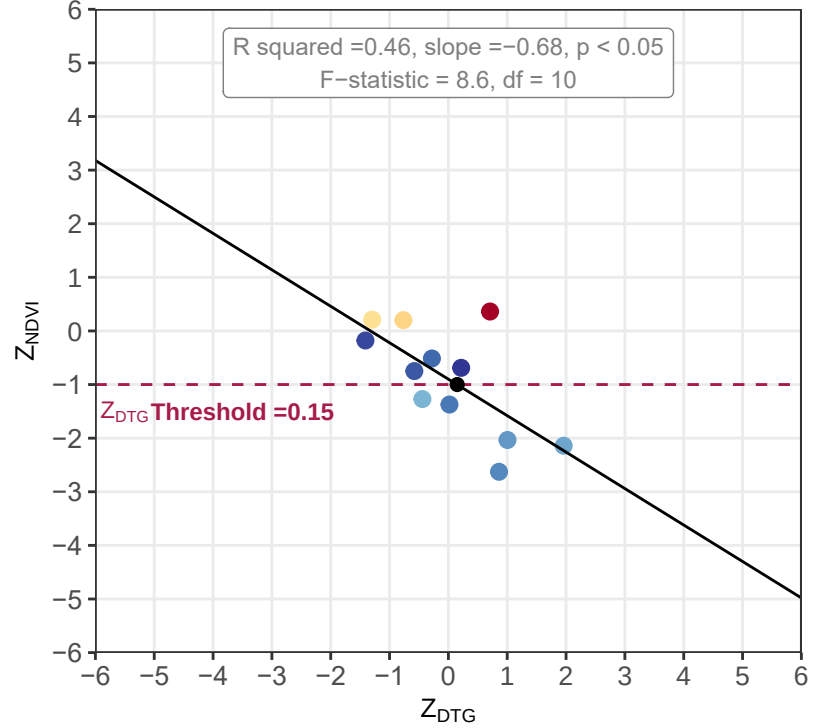
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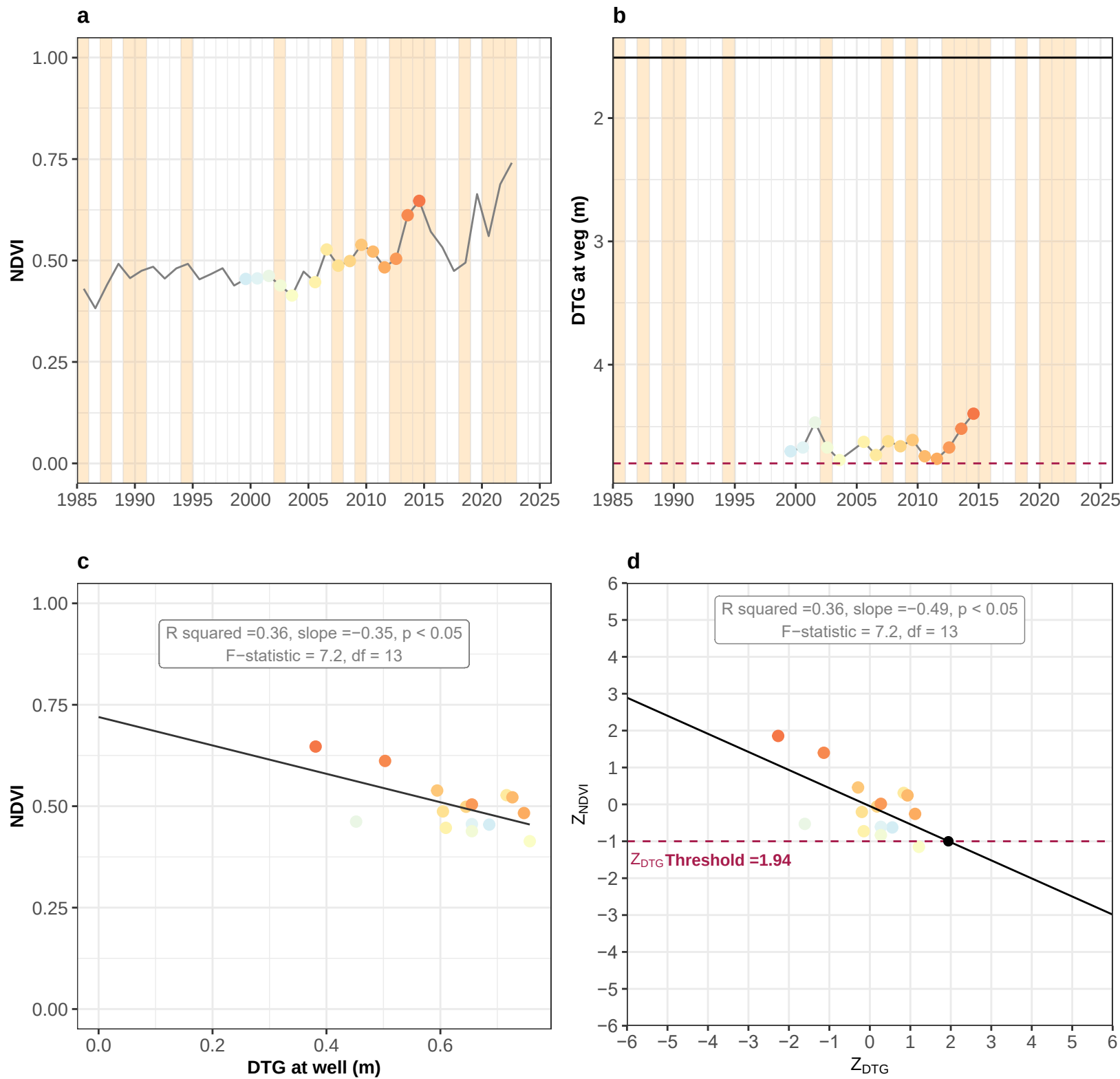
c



d

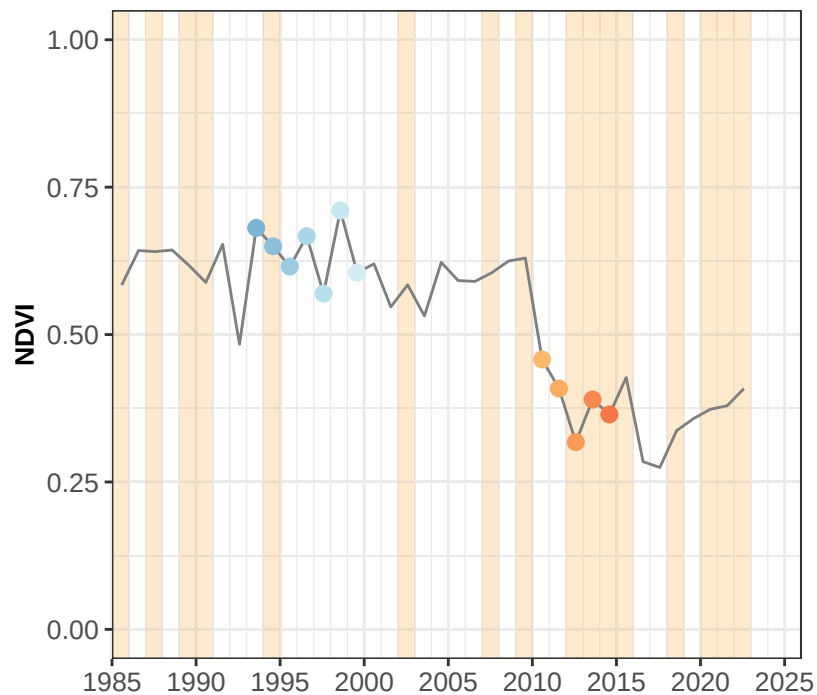


Salix (gdeID: 20196)

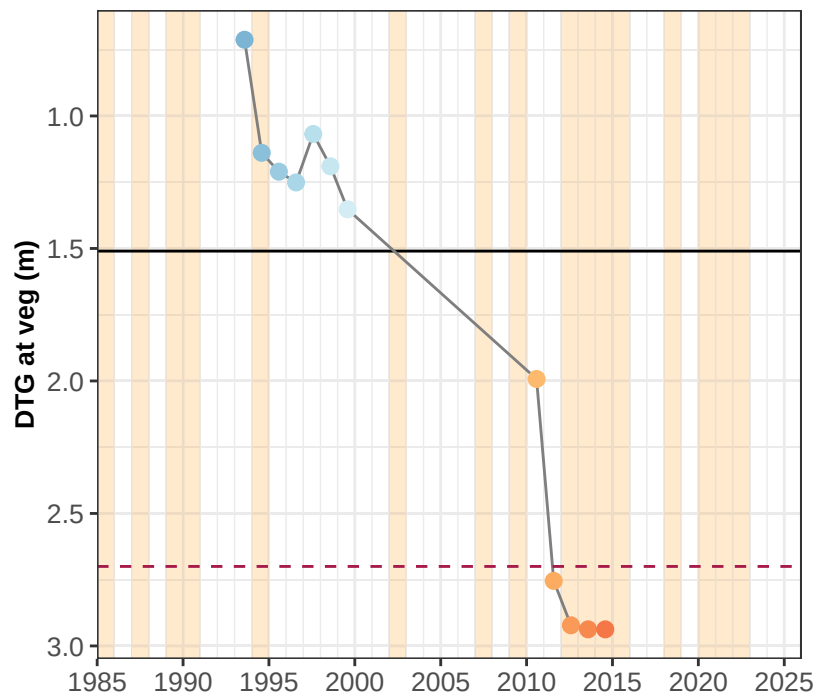


Salix (gdeID: 20778)

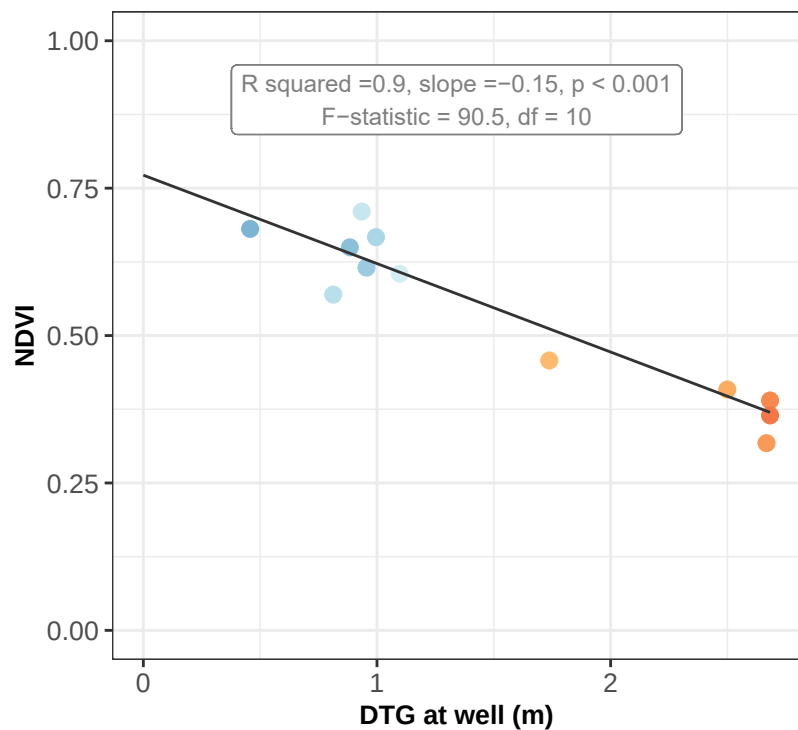
a



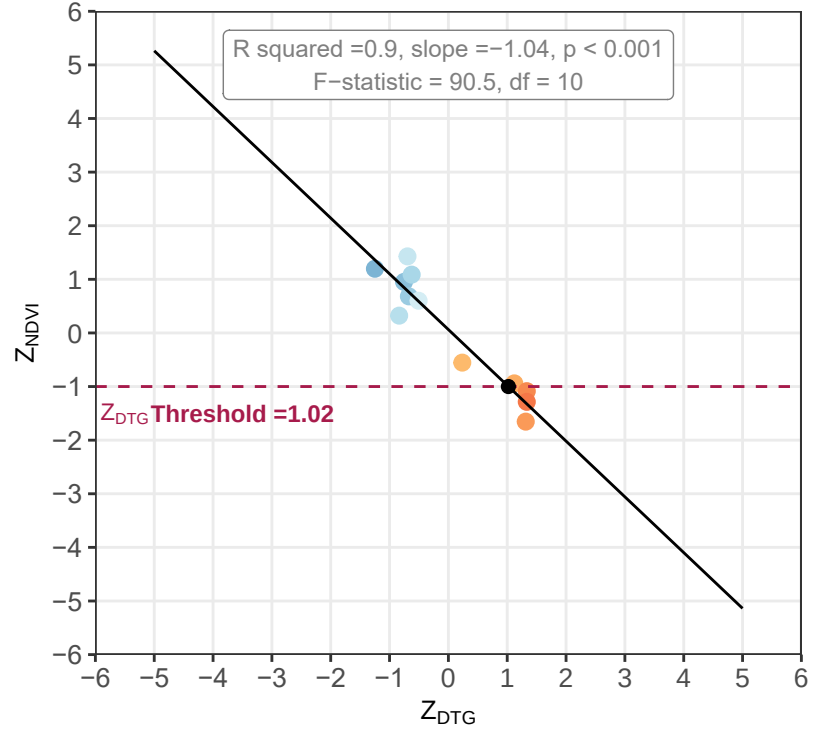
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c

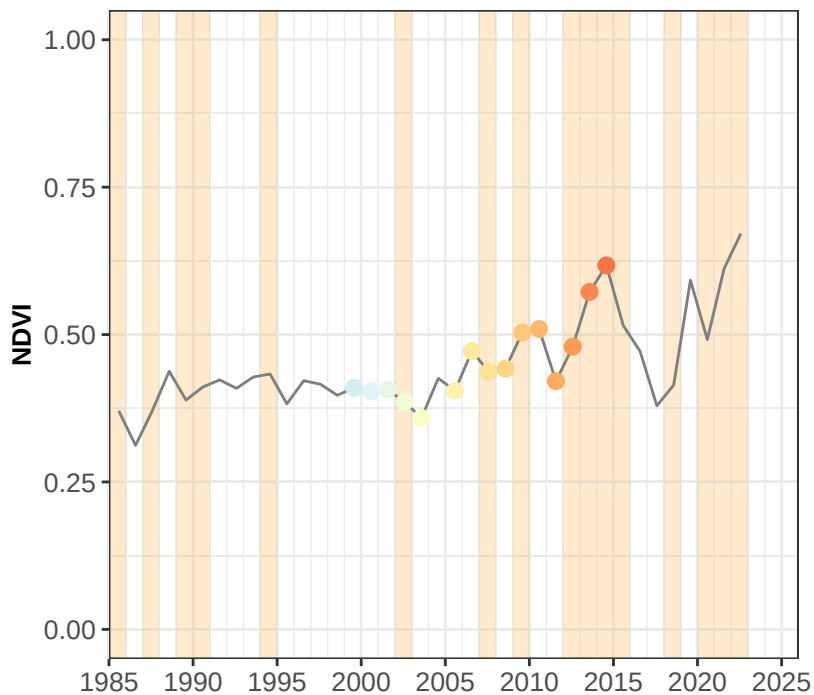


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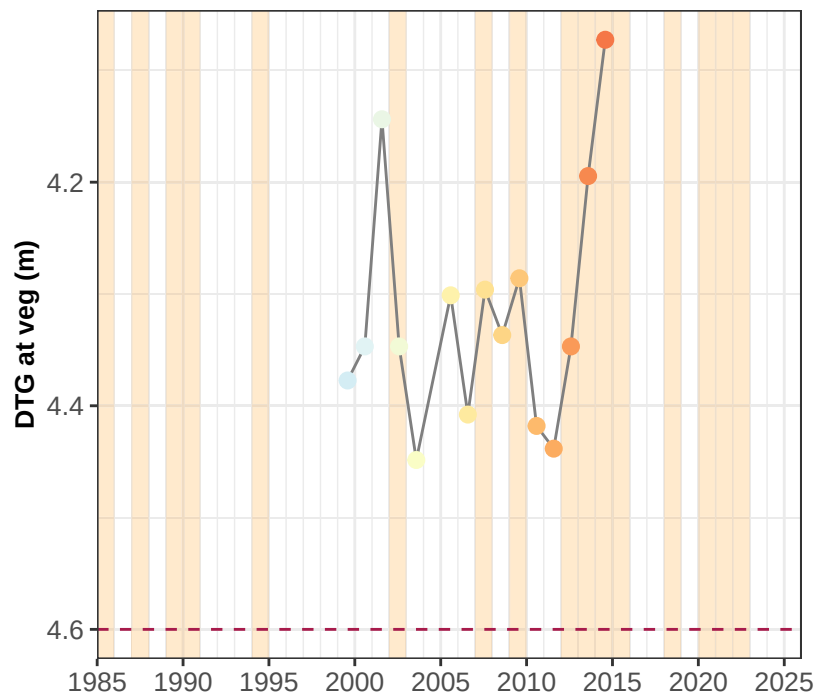


(gdeID: 21181)

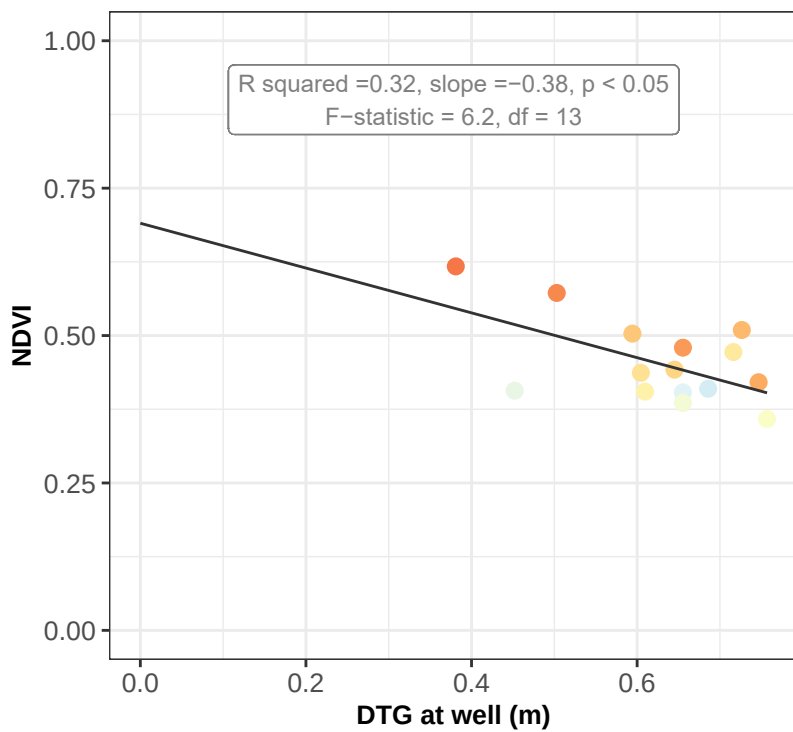
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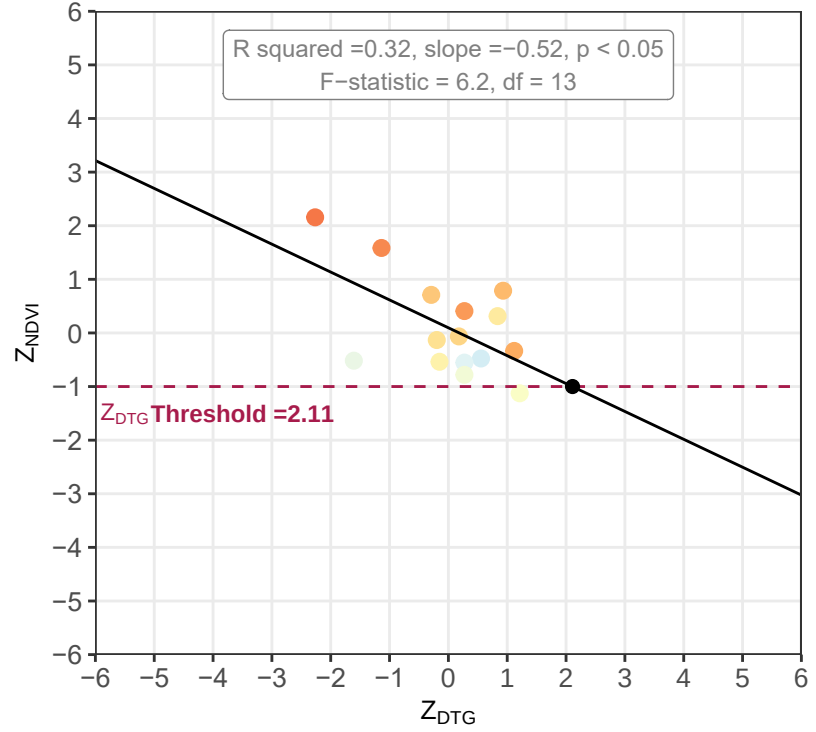
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c

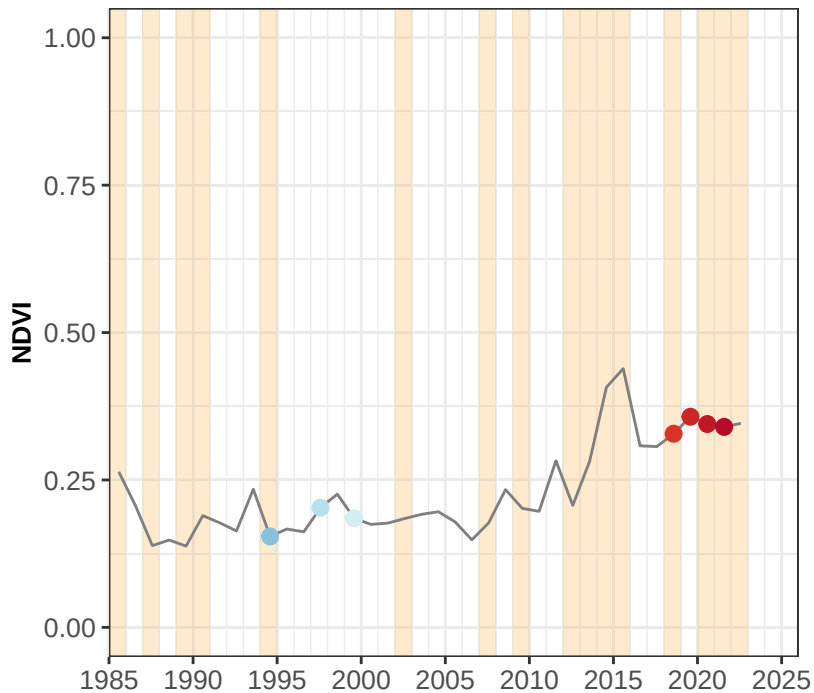


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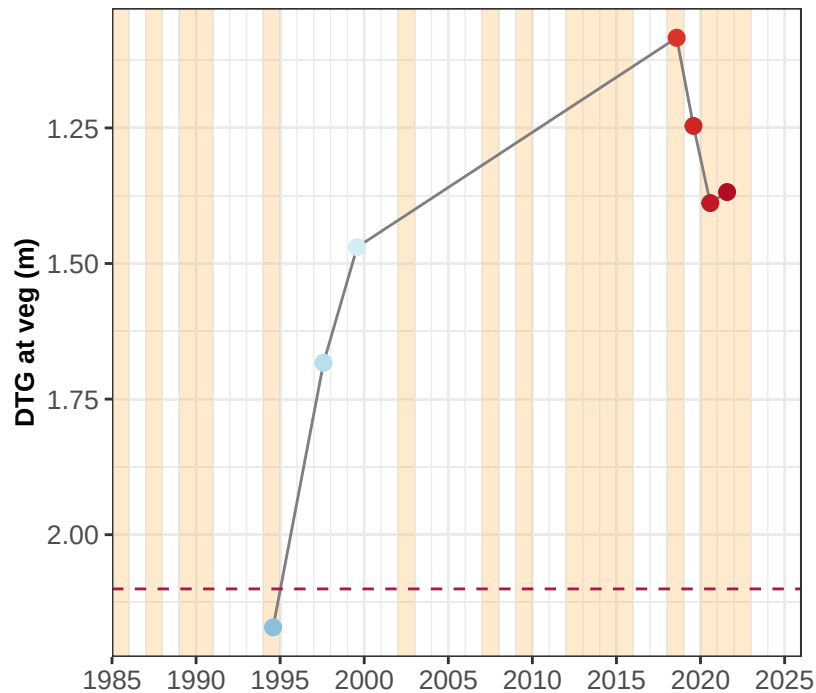


(gdeID: 21538)

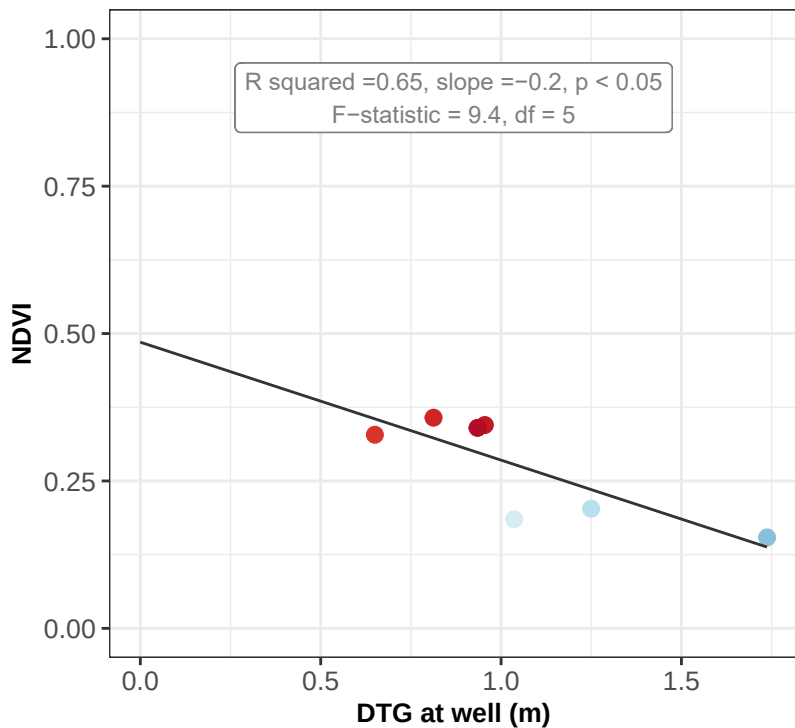
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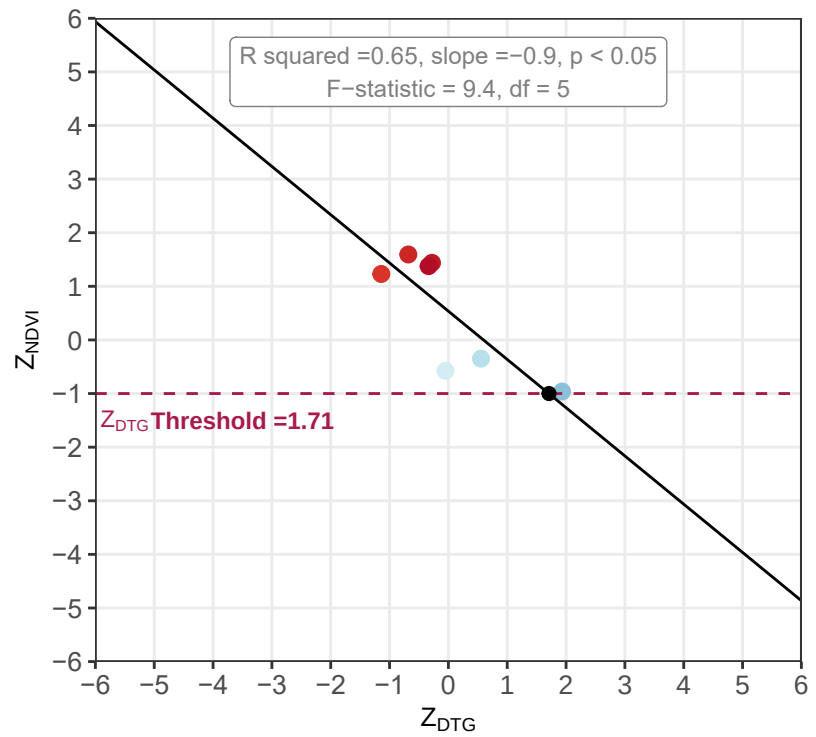
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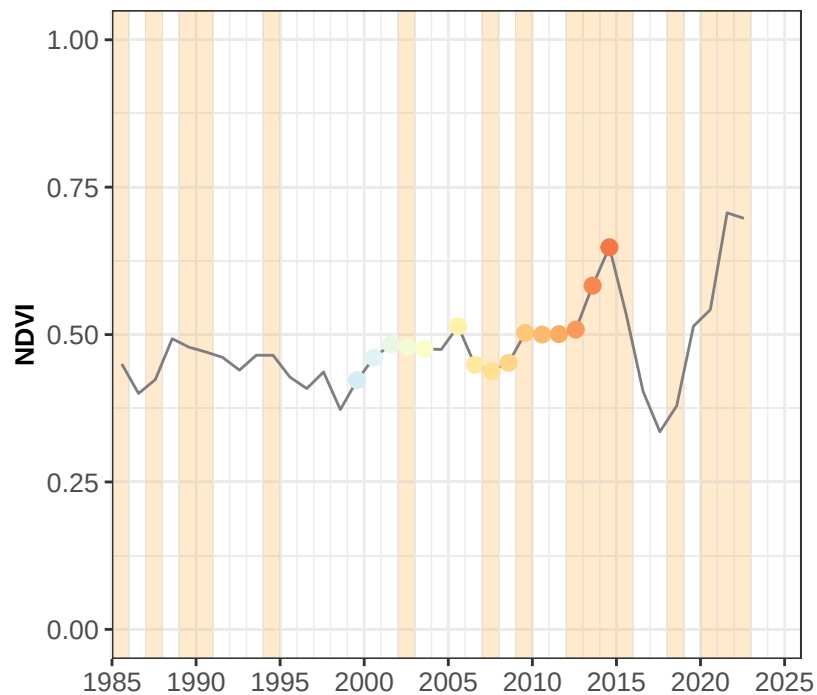


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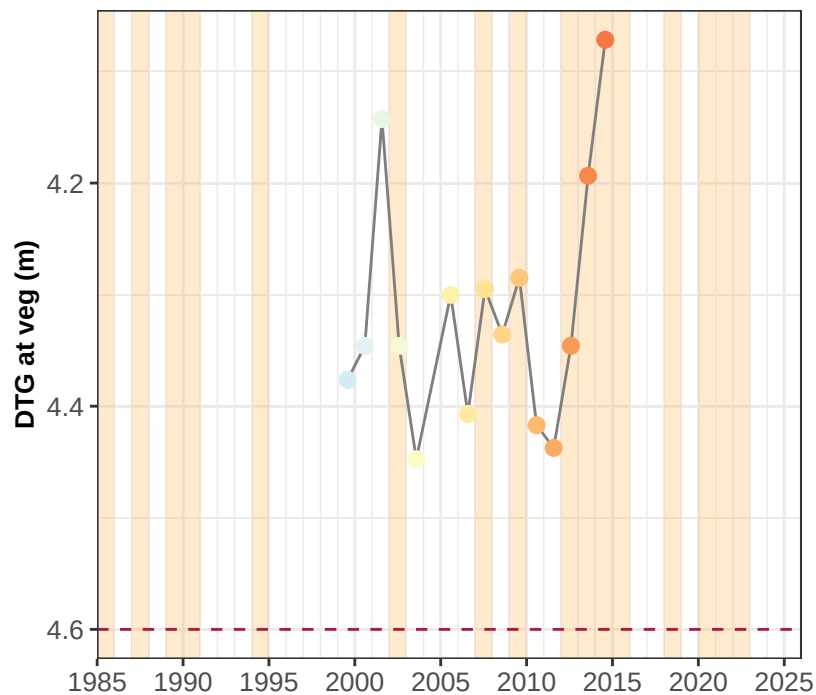


Typha (gdeID: 22259)

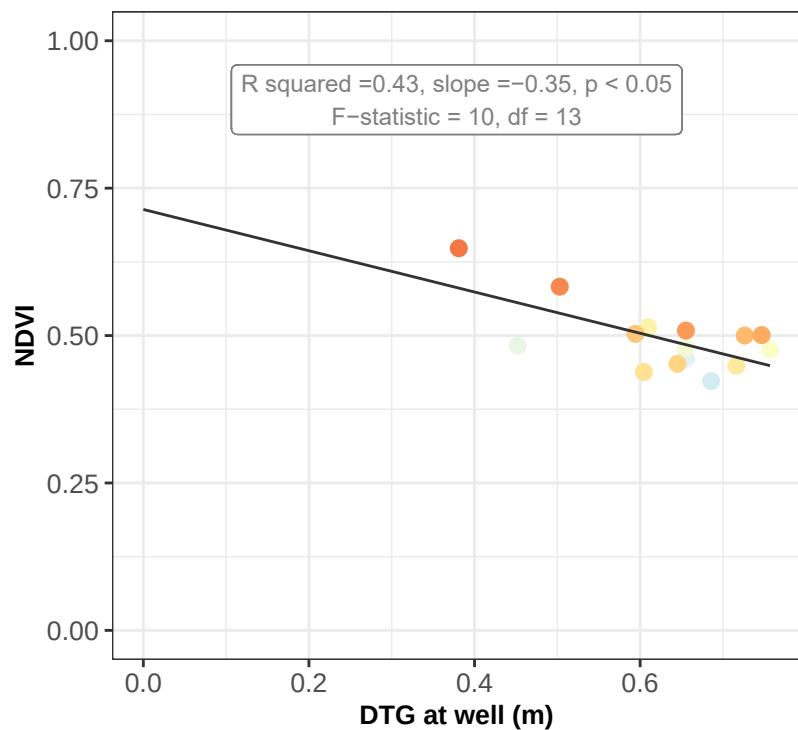
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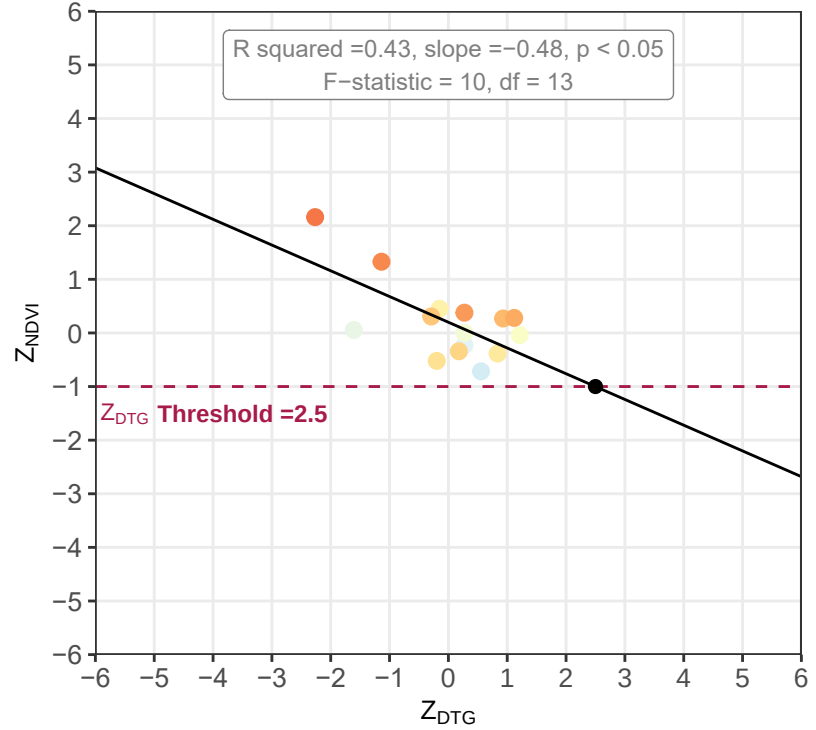
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c

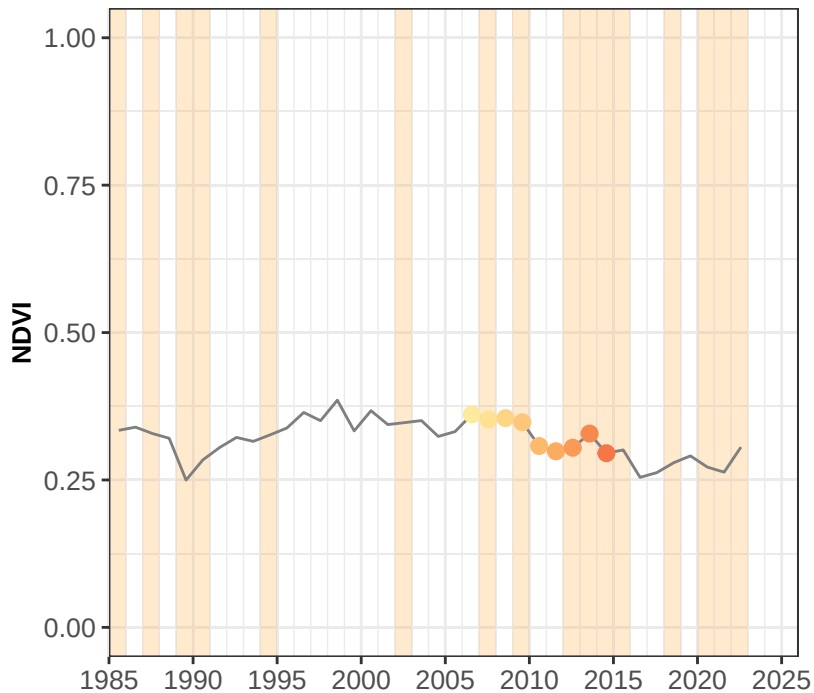


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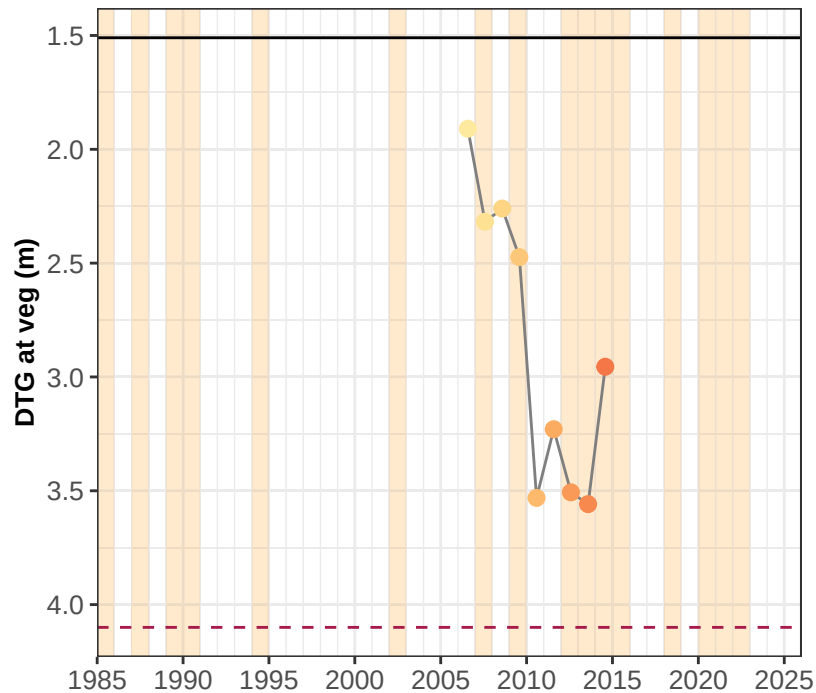


Salix (gdeID: 2312)

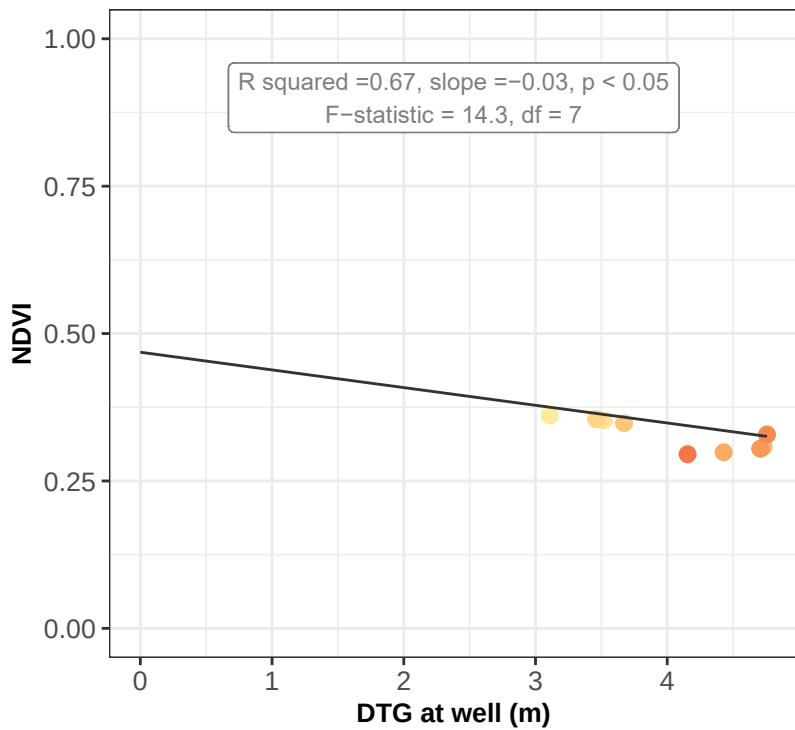
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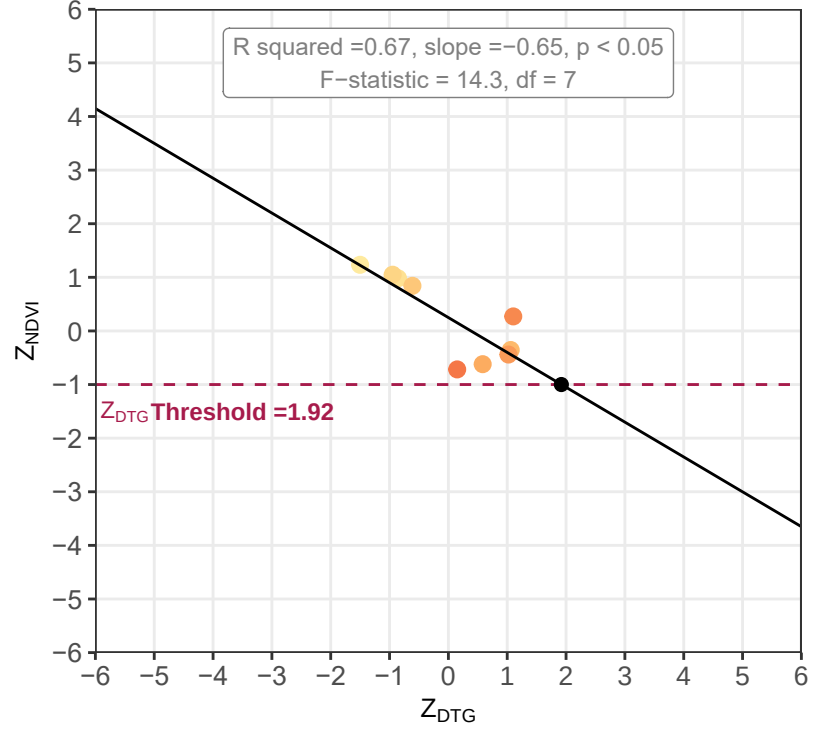
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c

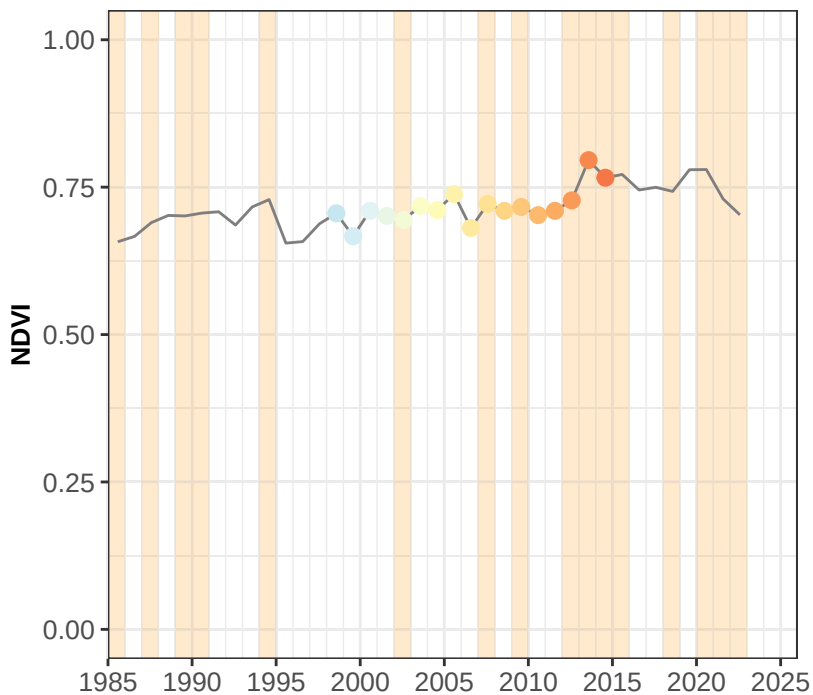


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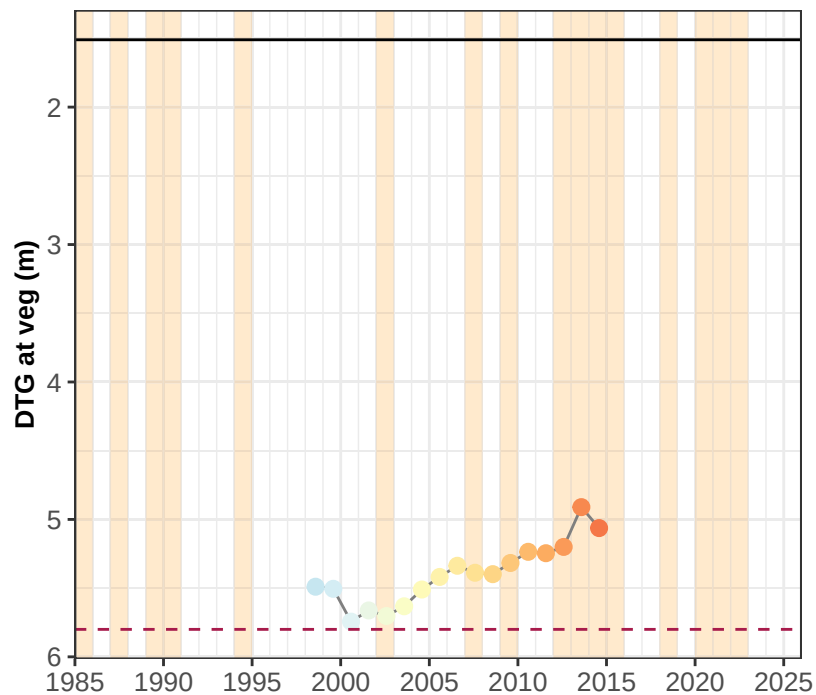


Salix (gdeID: 2342)

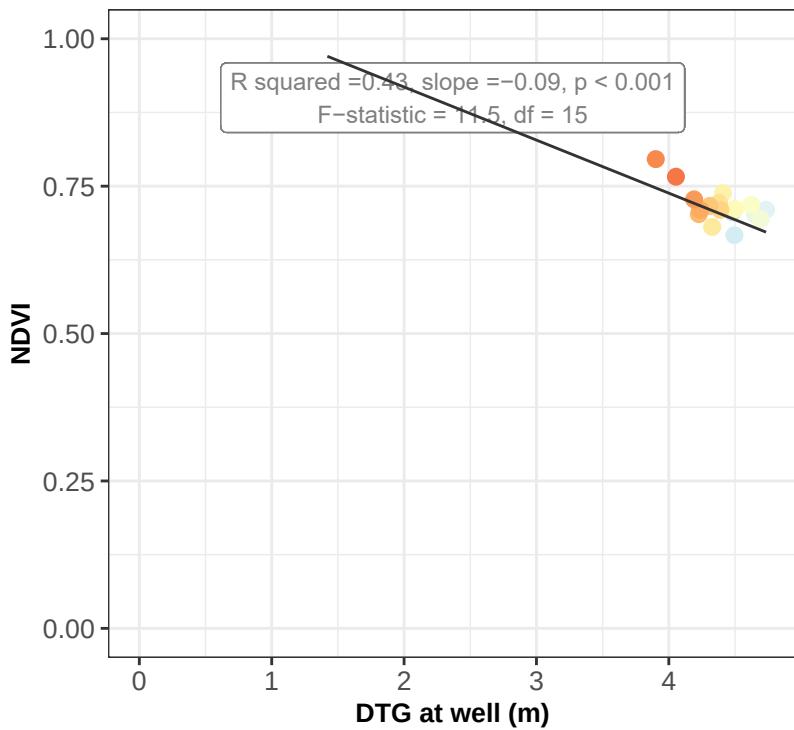
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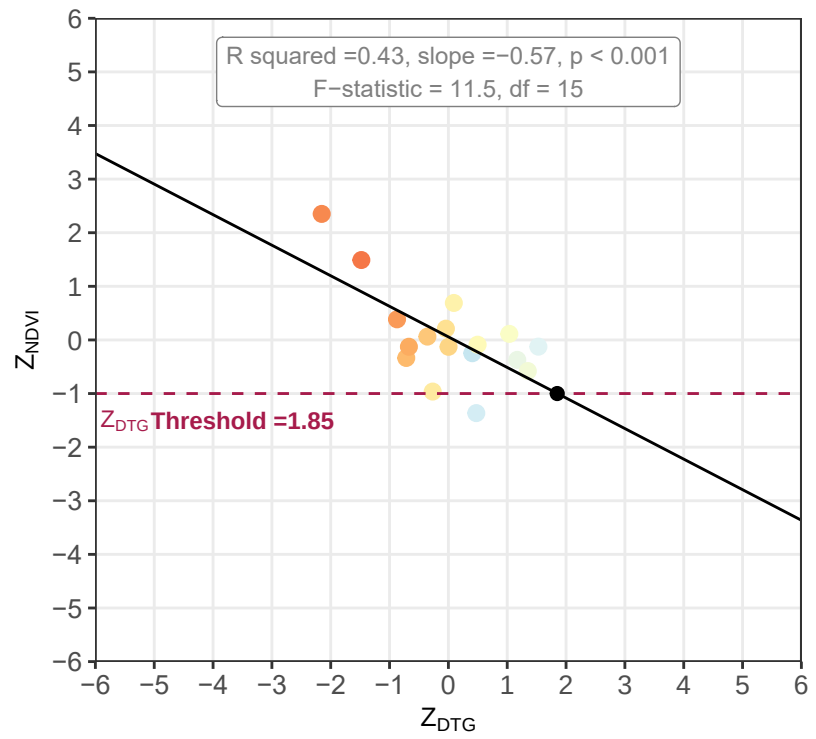
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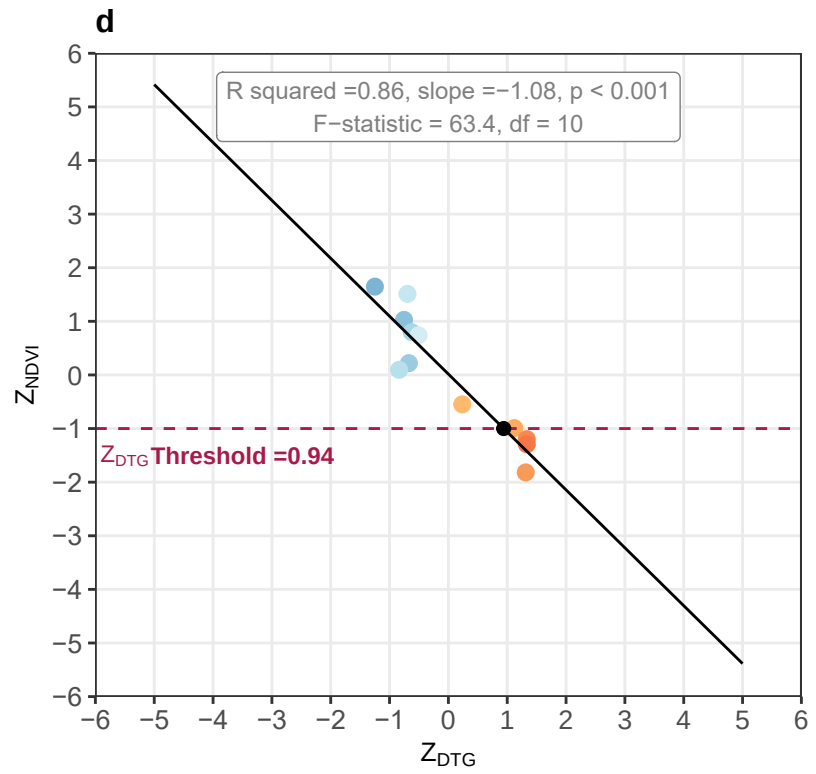
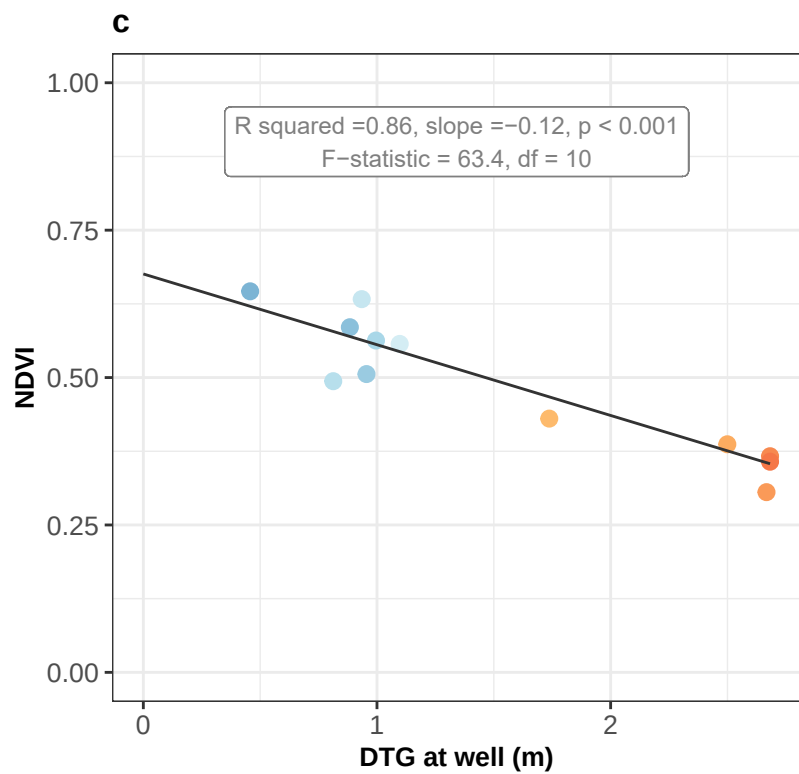
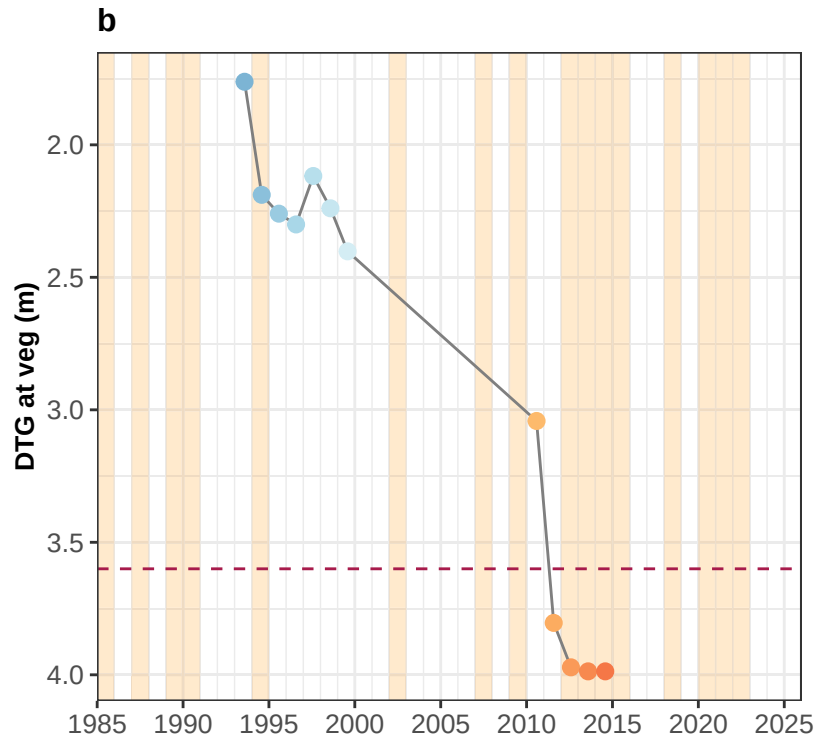
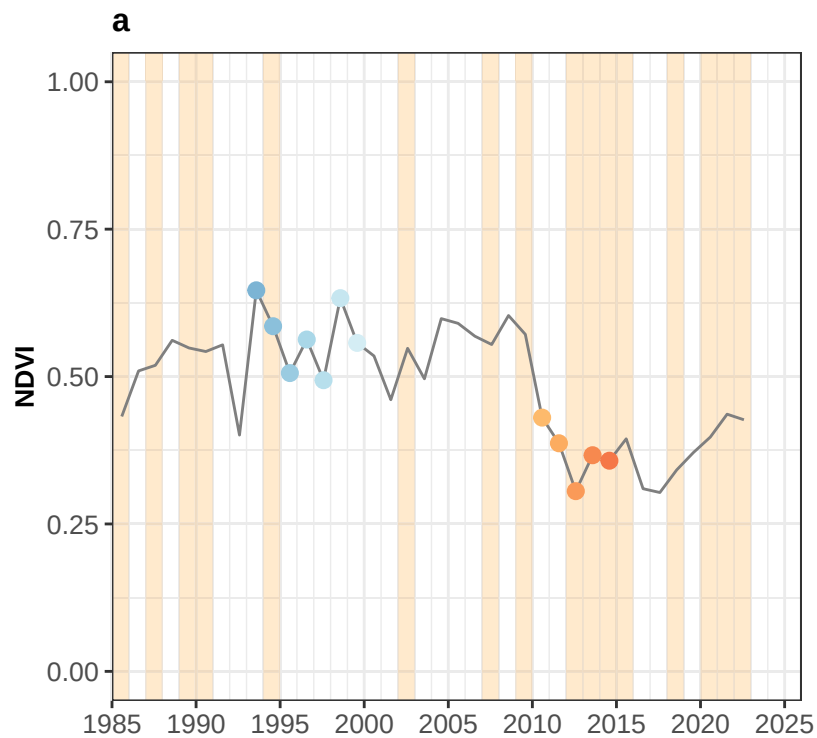
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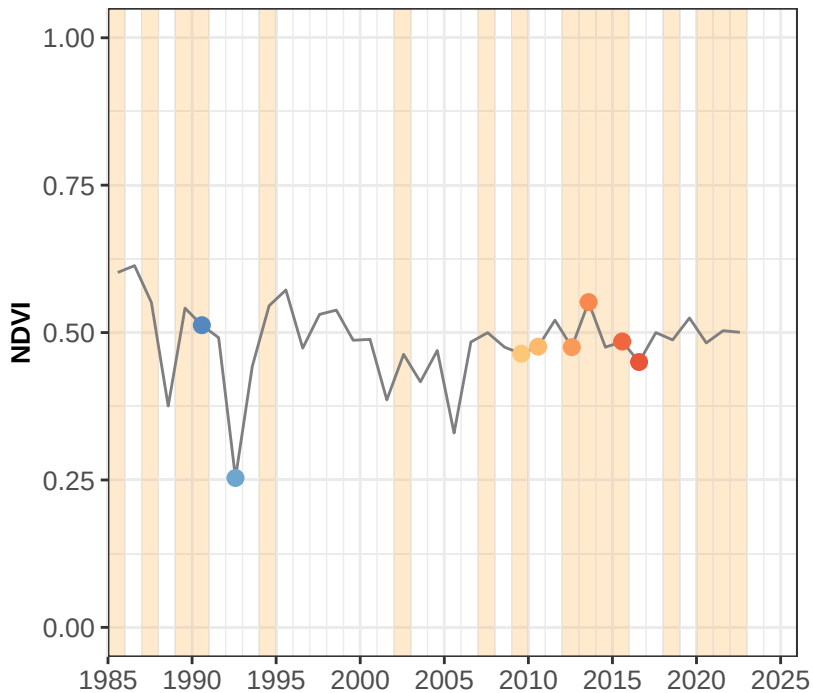


Flooded Veg (gdeID: 23530)

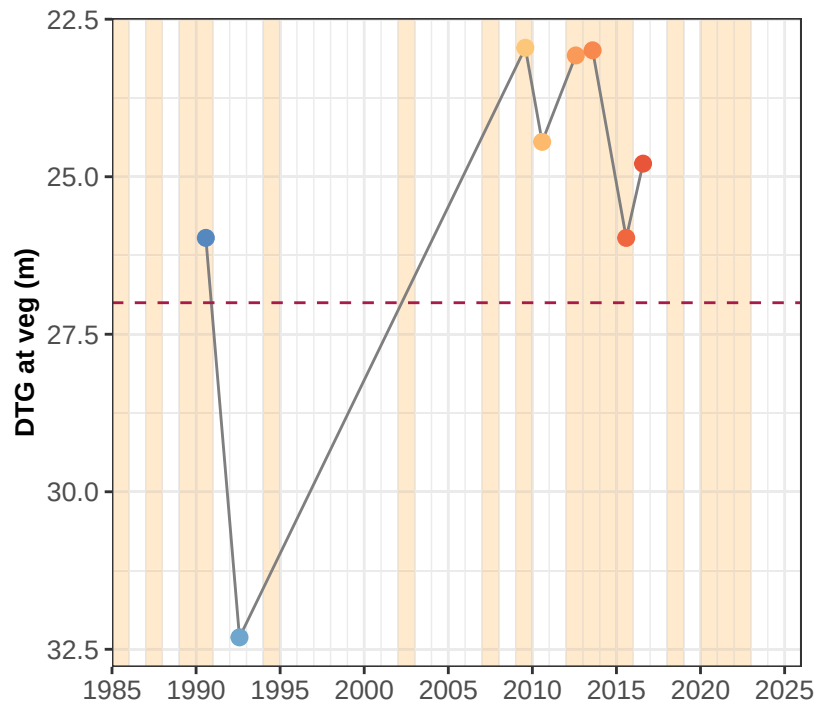


Typha (gdeID: 23592)

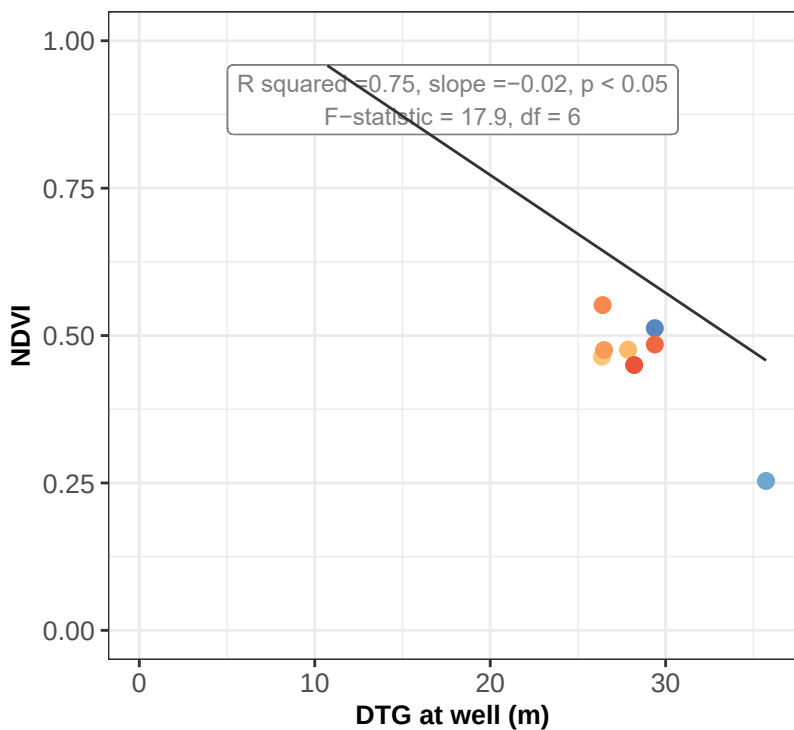
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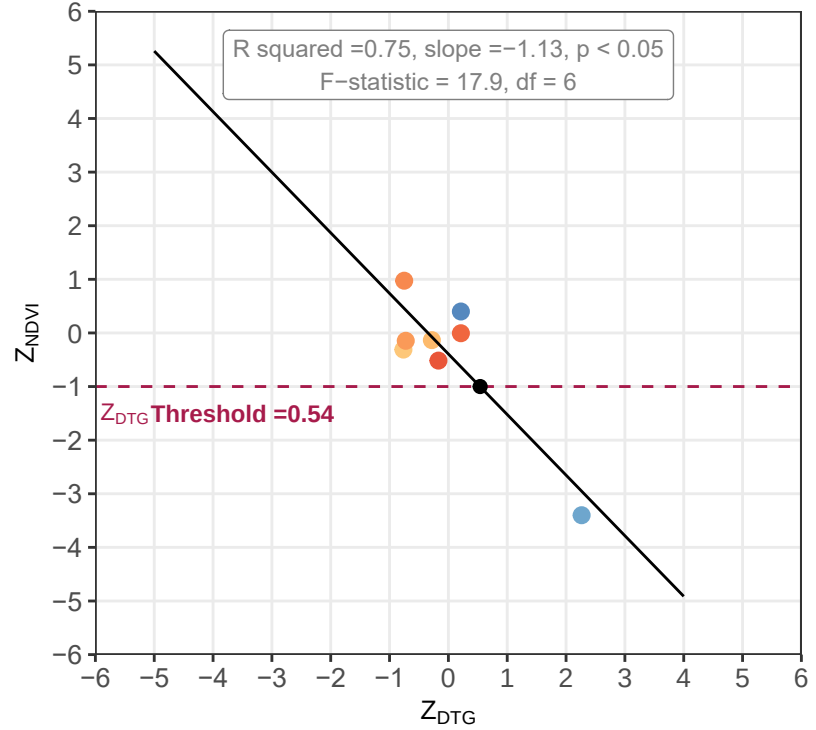
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c

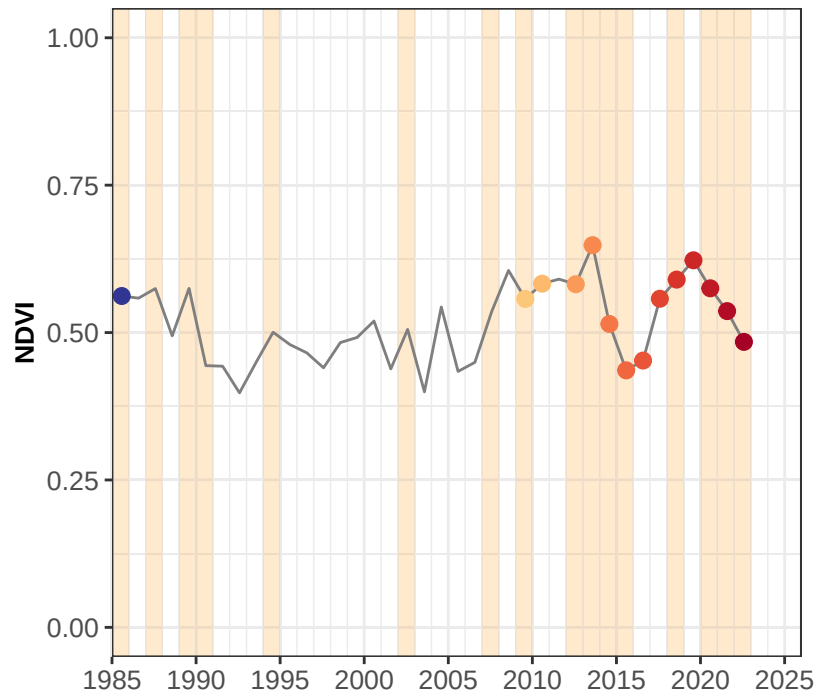


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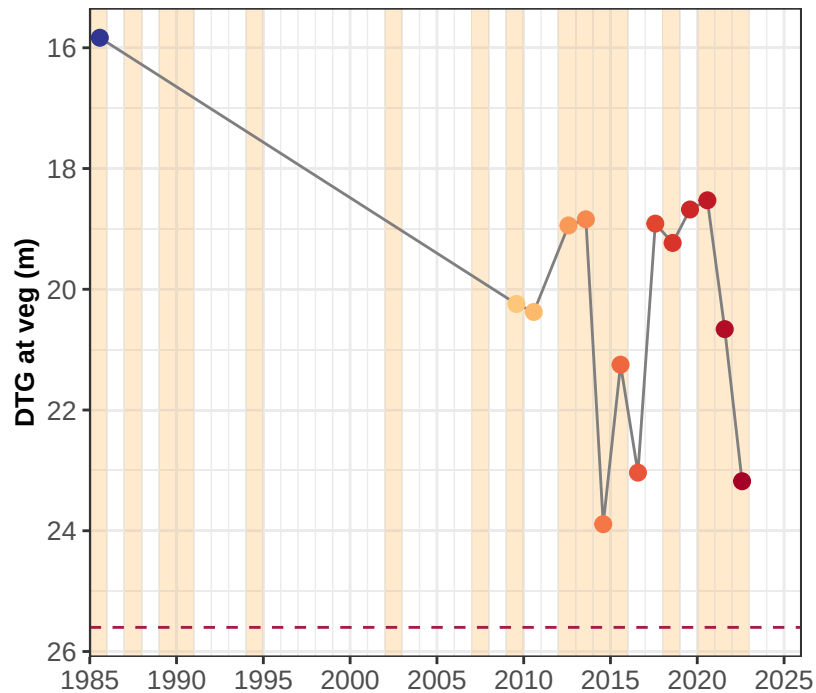


Typha (gdeID: 23594)

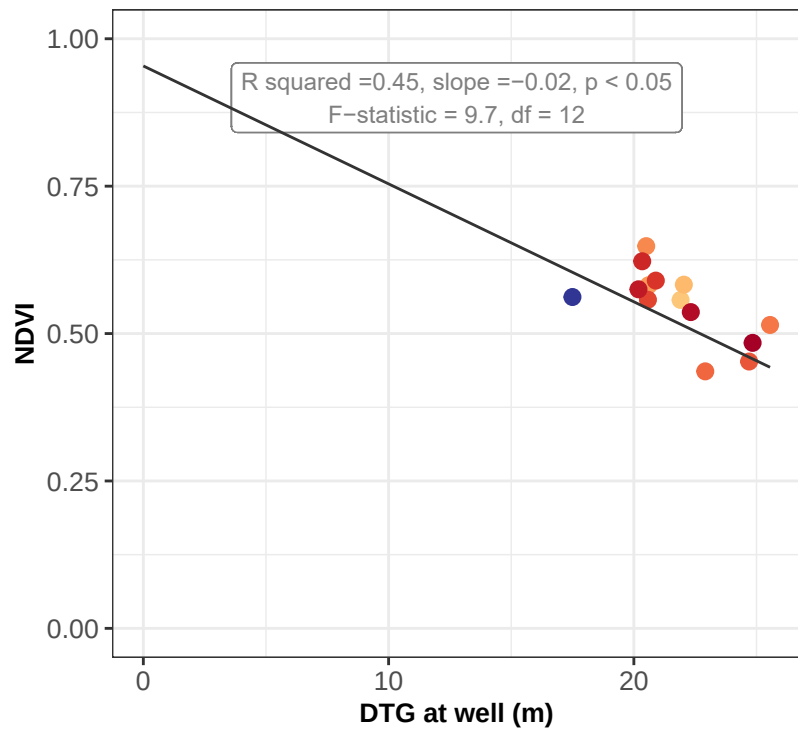
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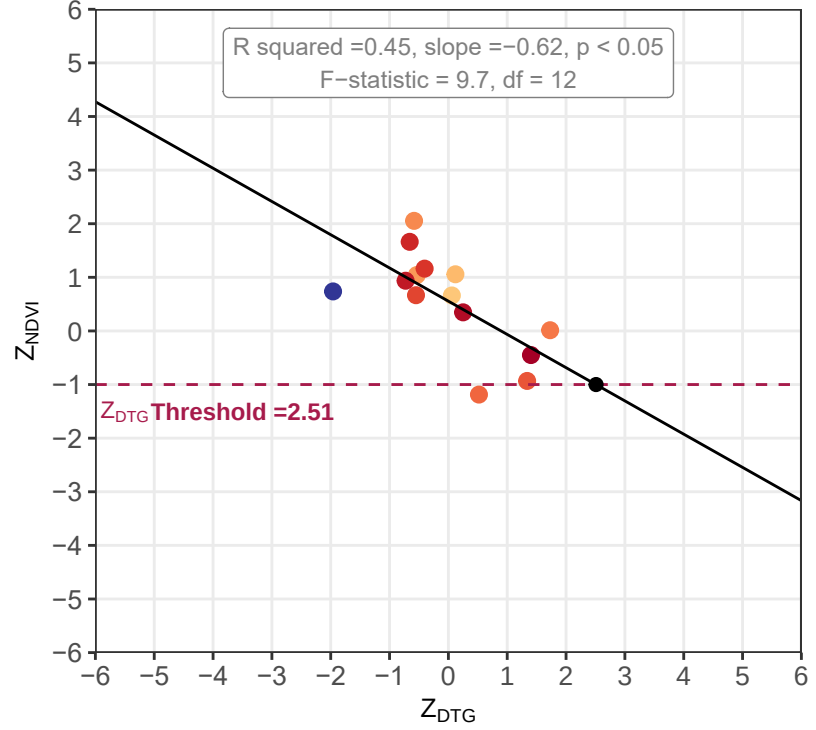
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c

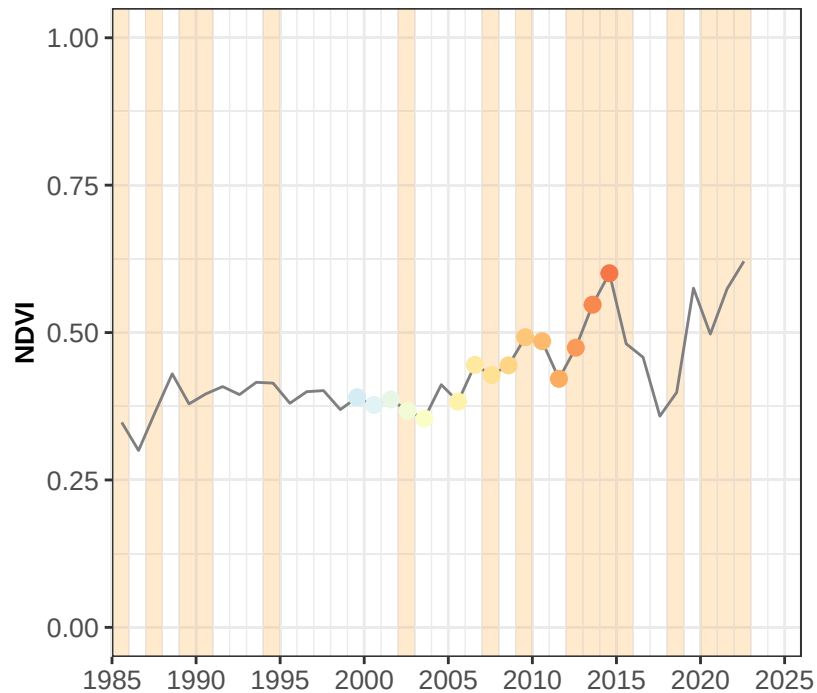


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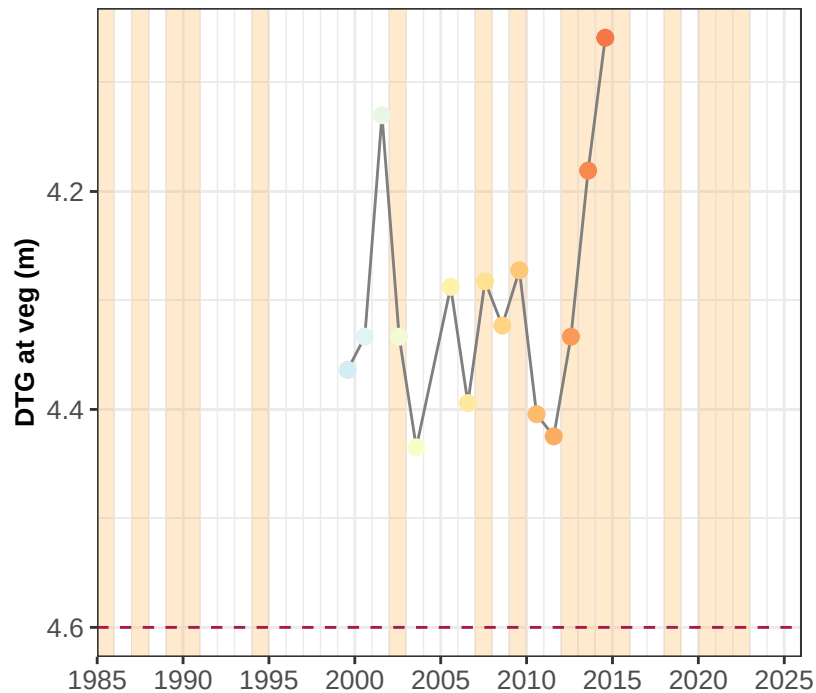


(gdeID: 23874)

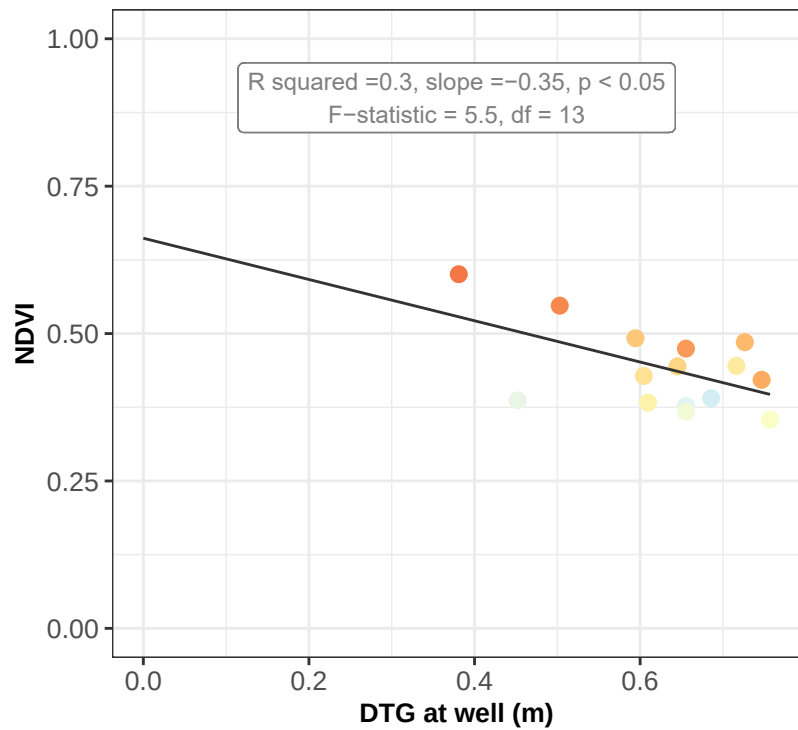
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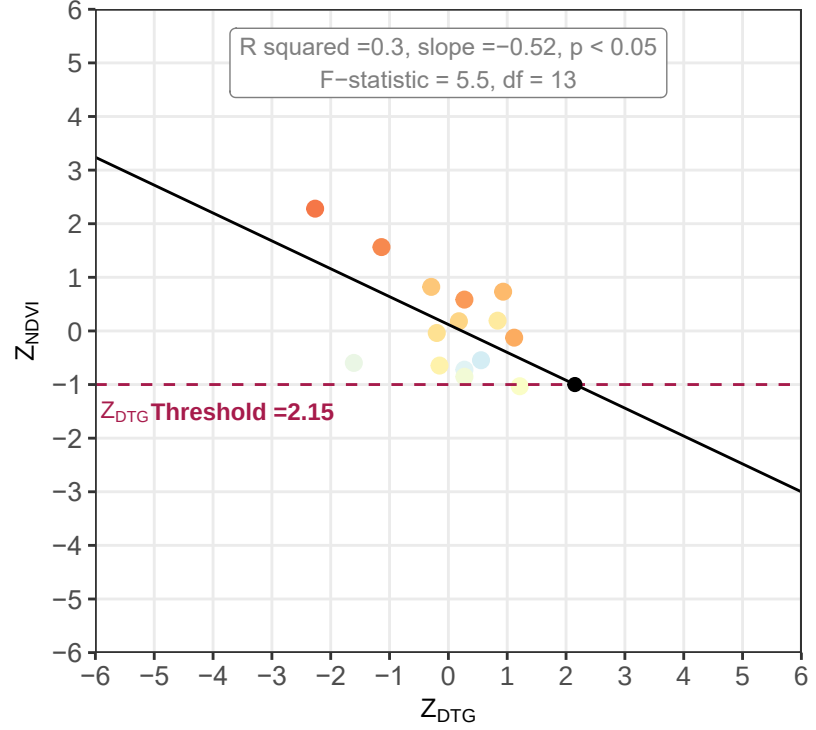
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c

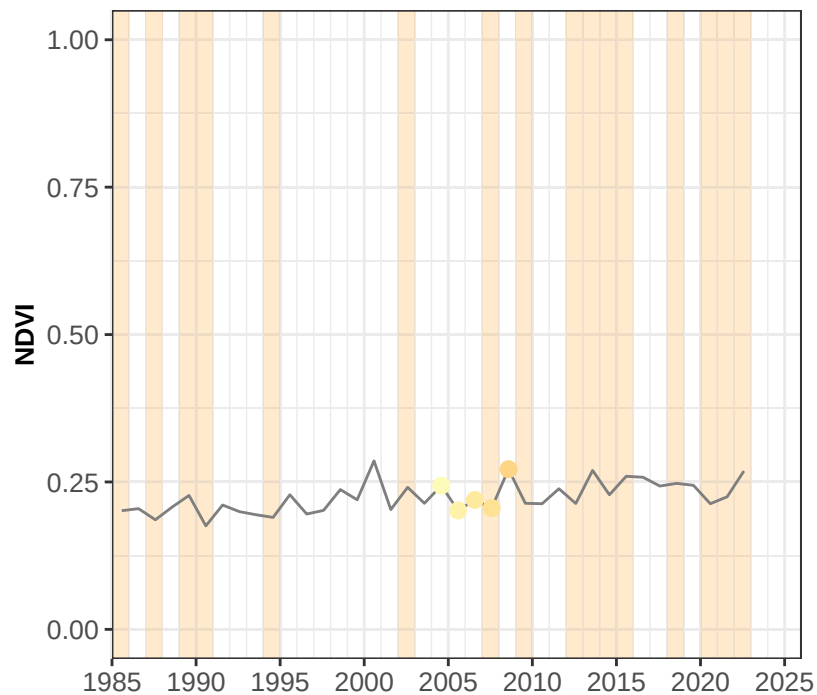


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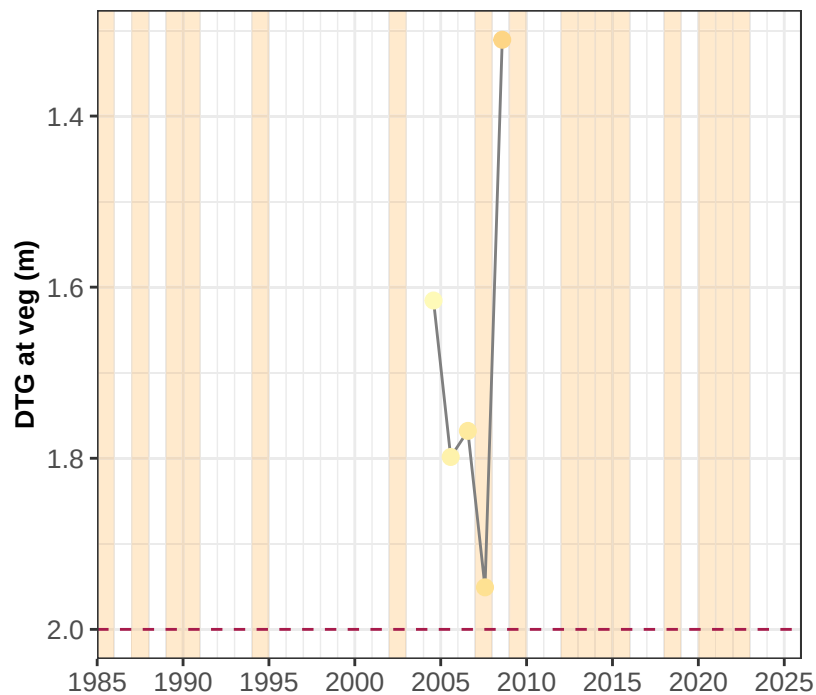


(gdeID: 27097)

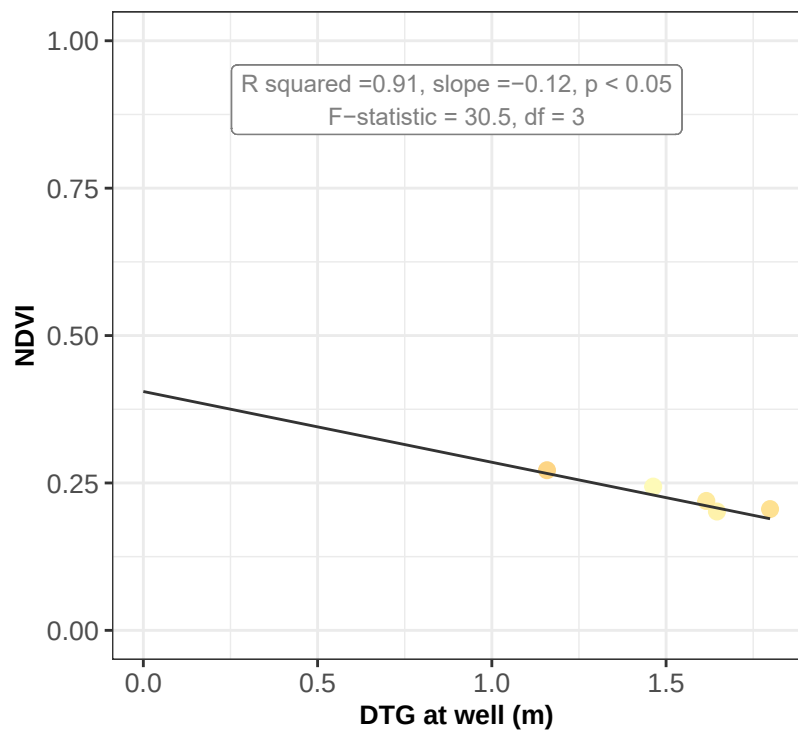
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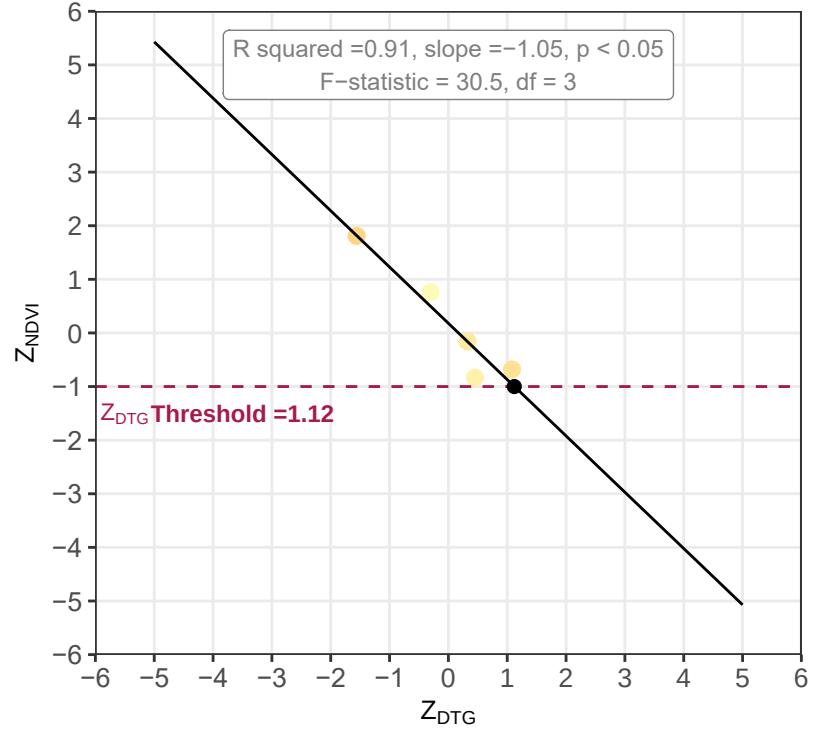
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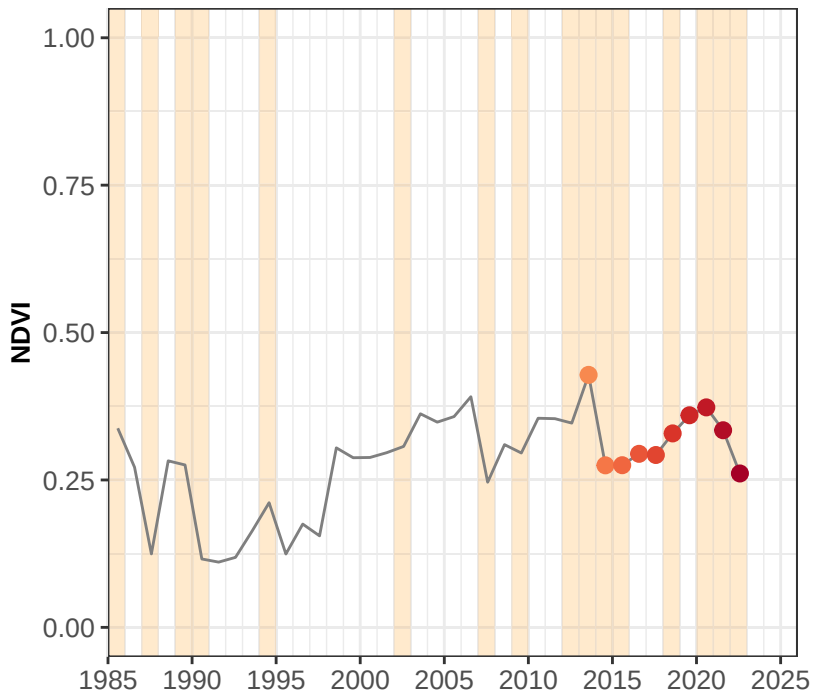


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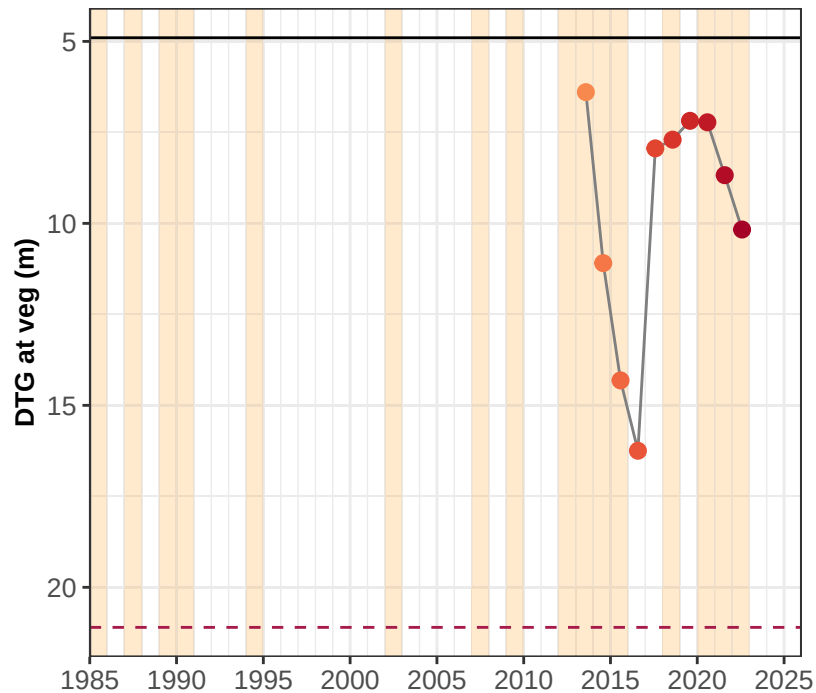


Arundo (gdeID: 27440)

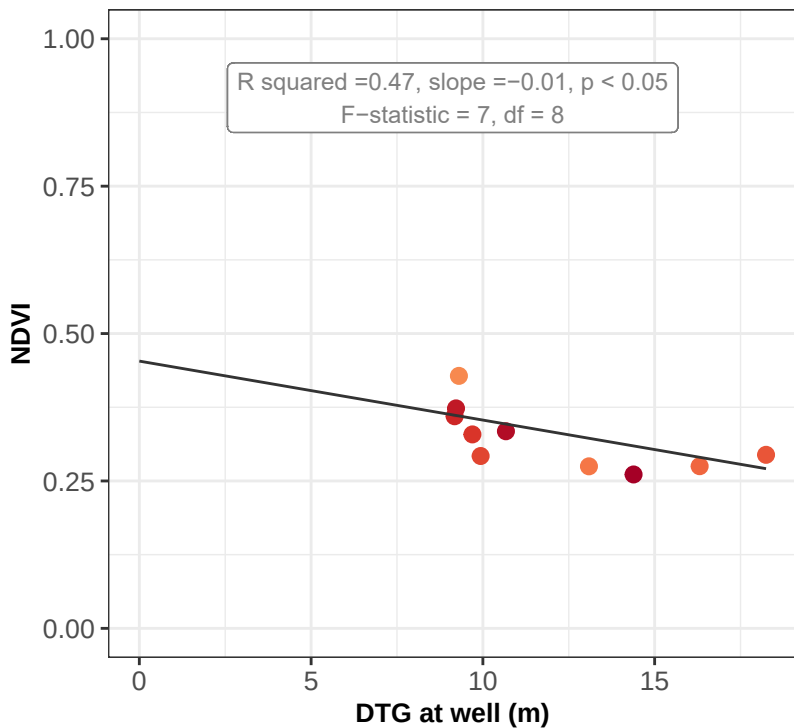
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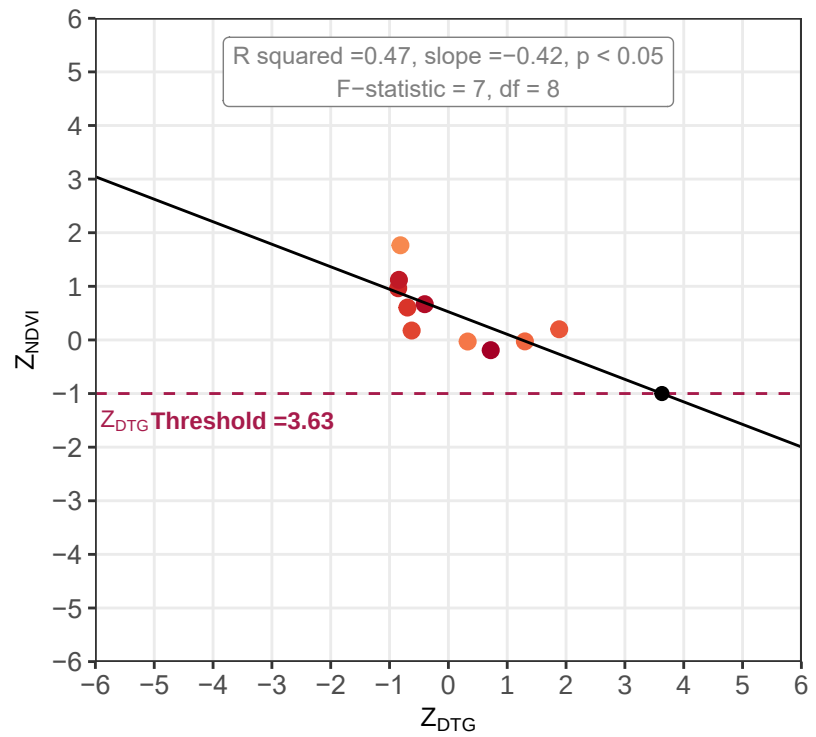
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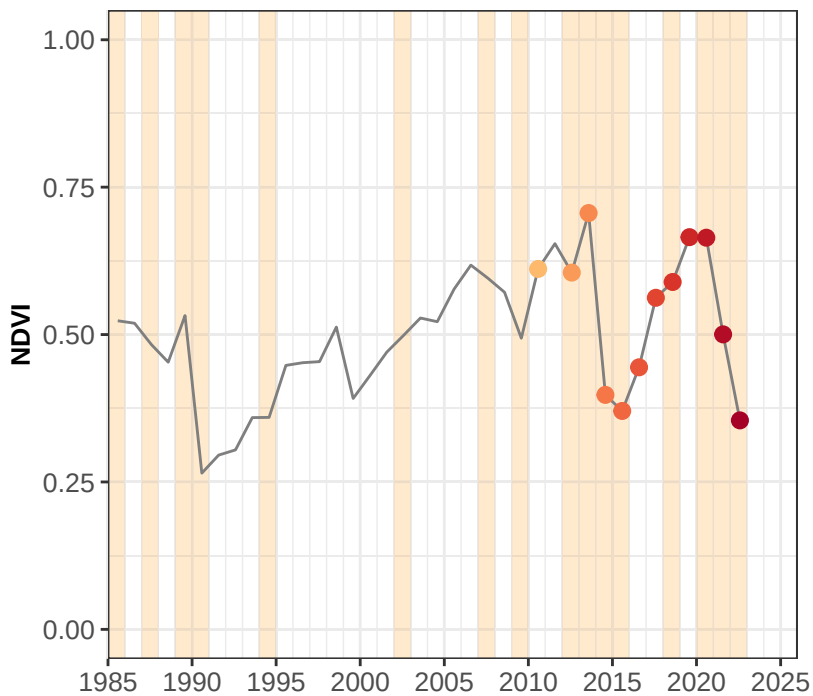


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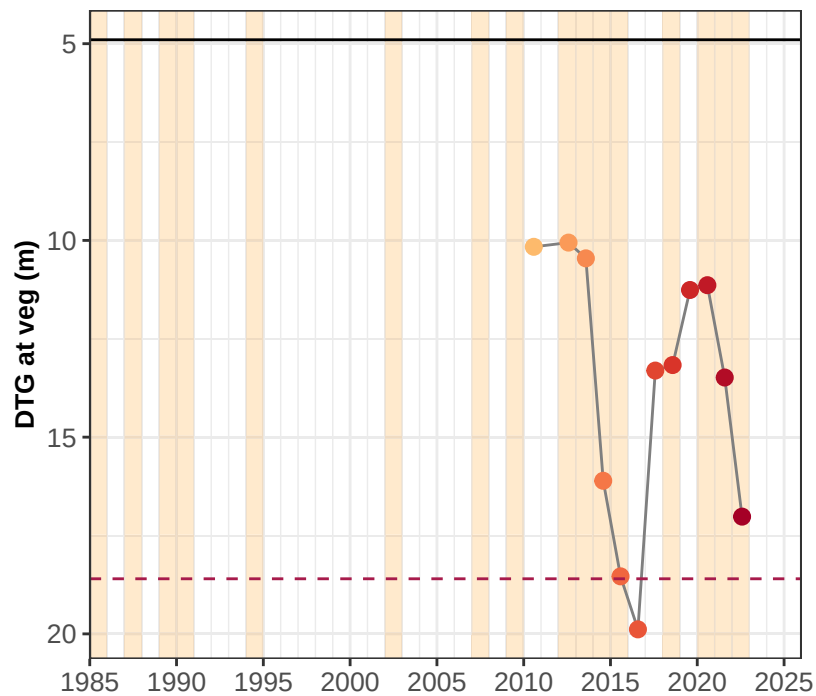


Arundo (gdeID: 27485)

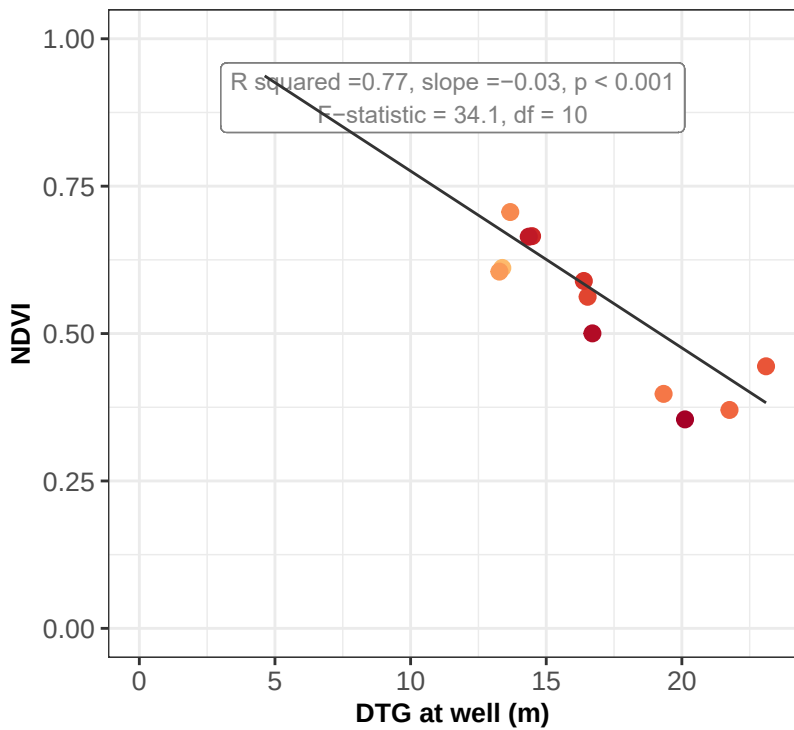
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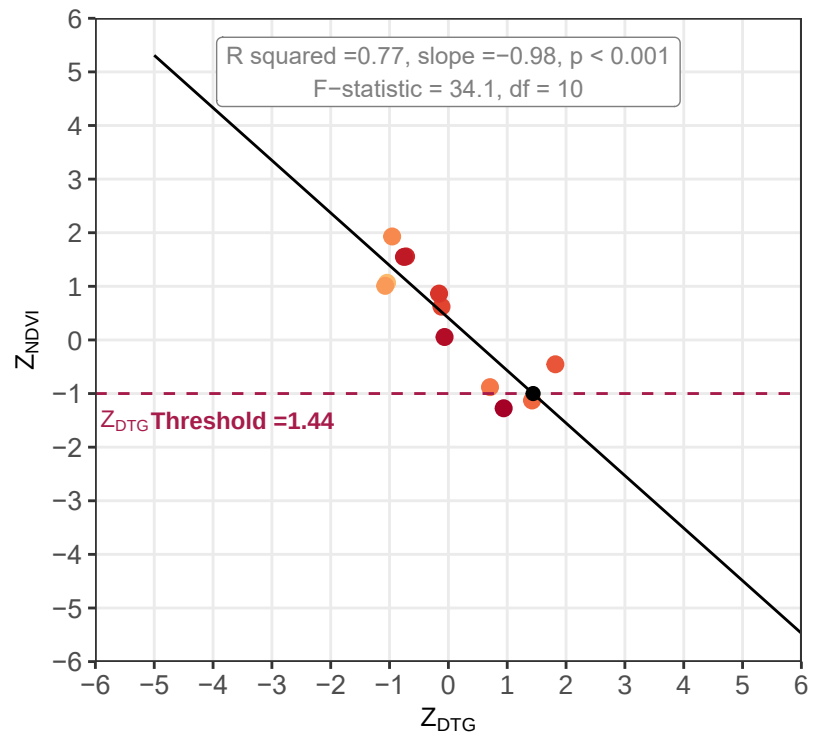
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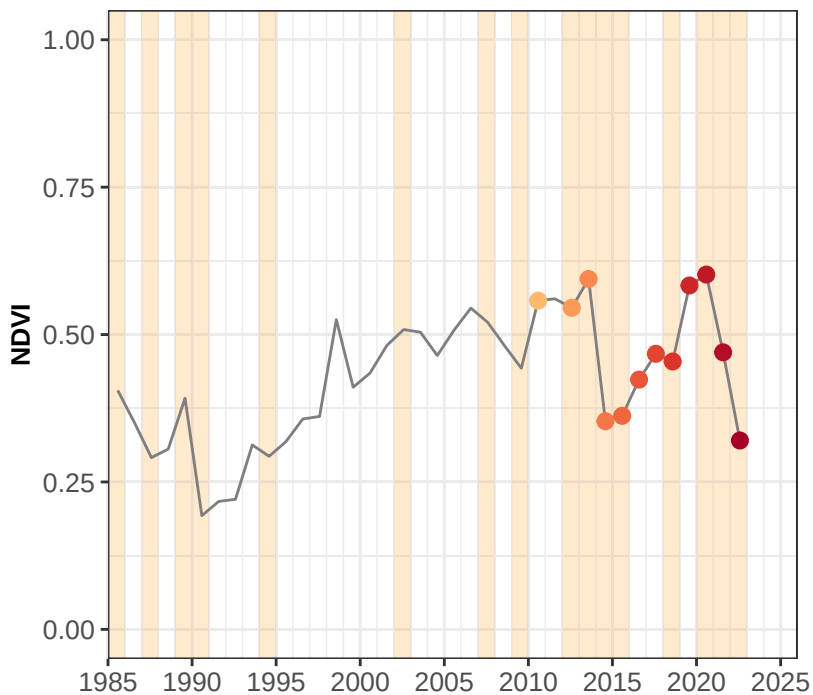


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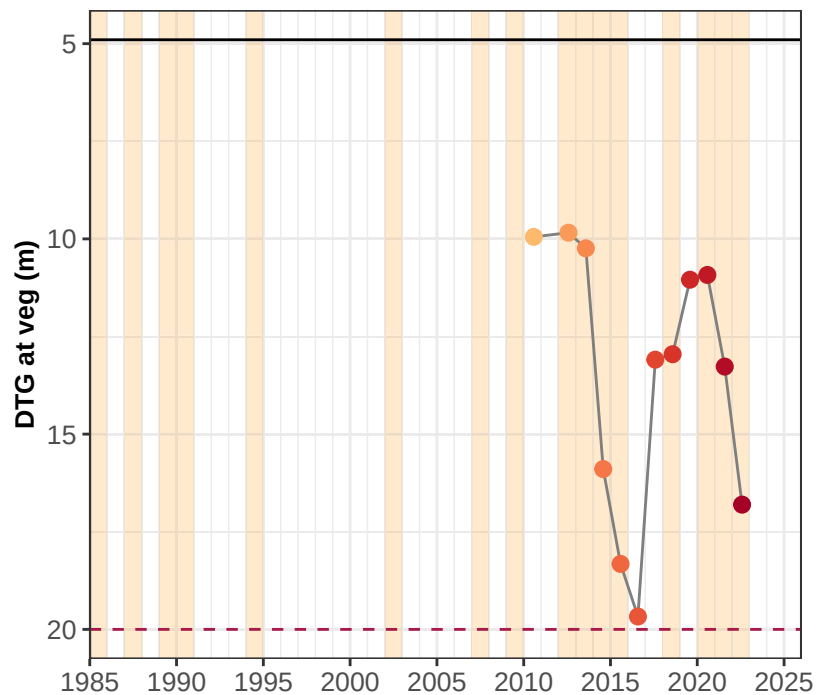


Arundo (gdeID: 27486)

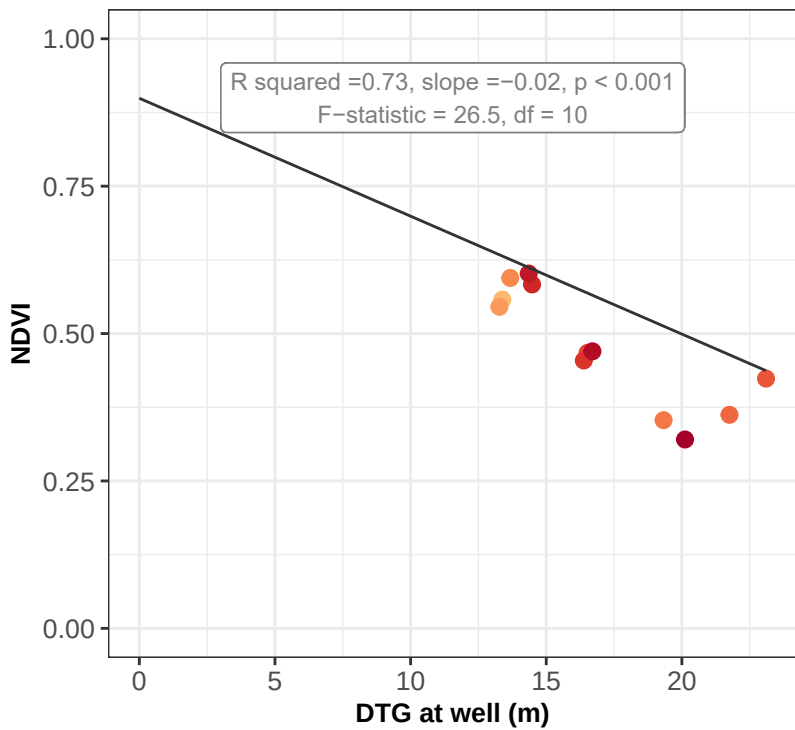
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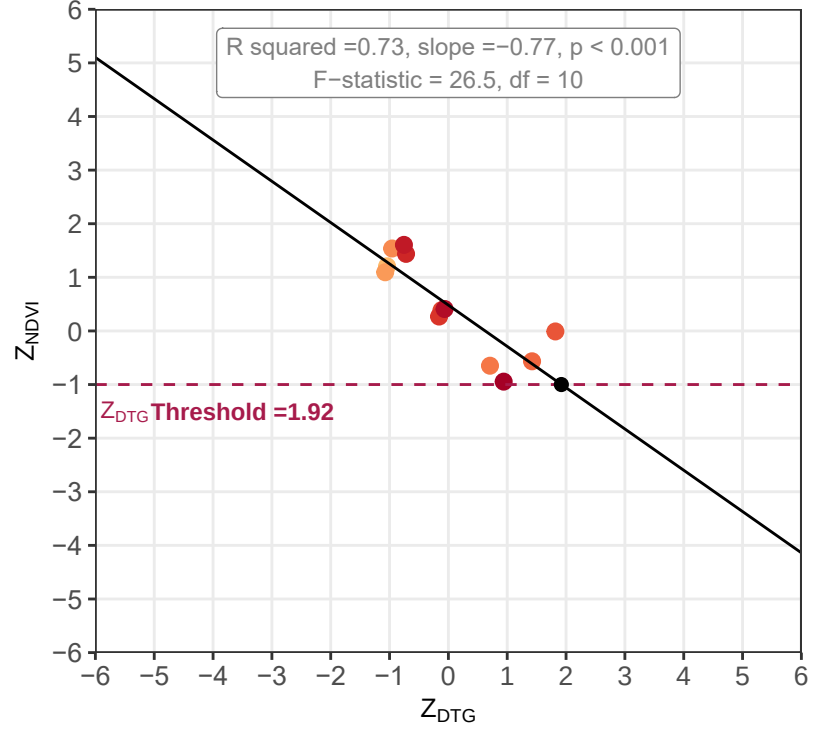
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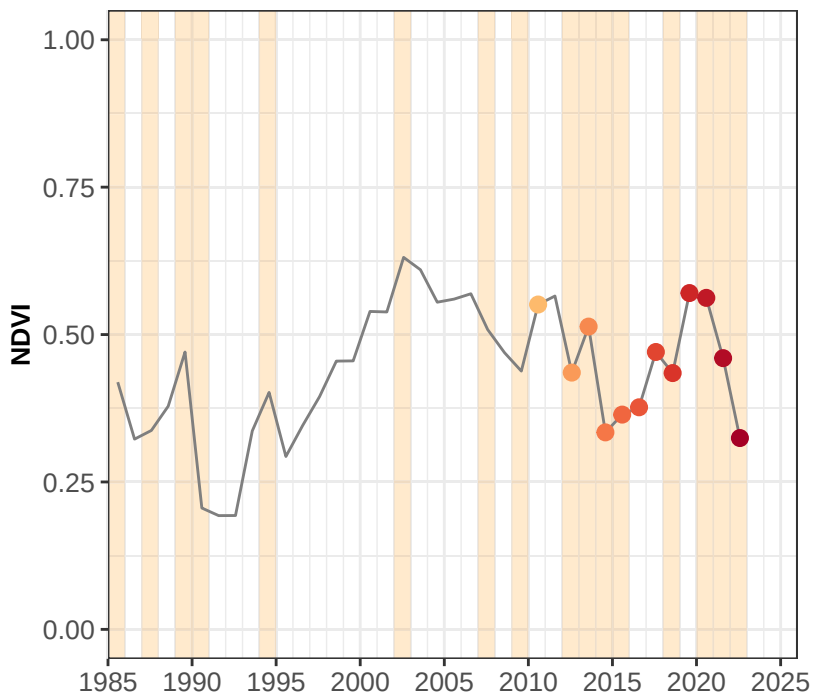


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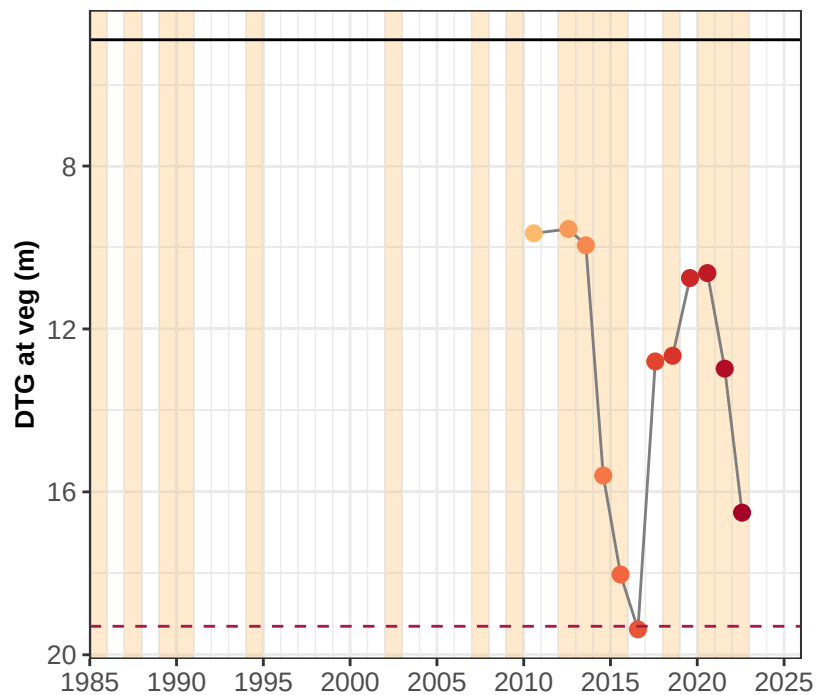


Arundo (gdeID: 27487)

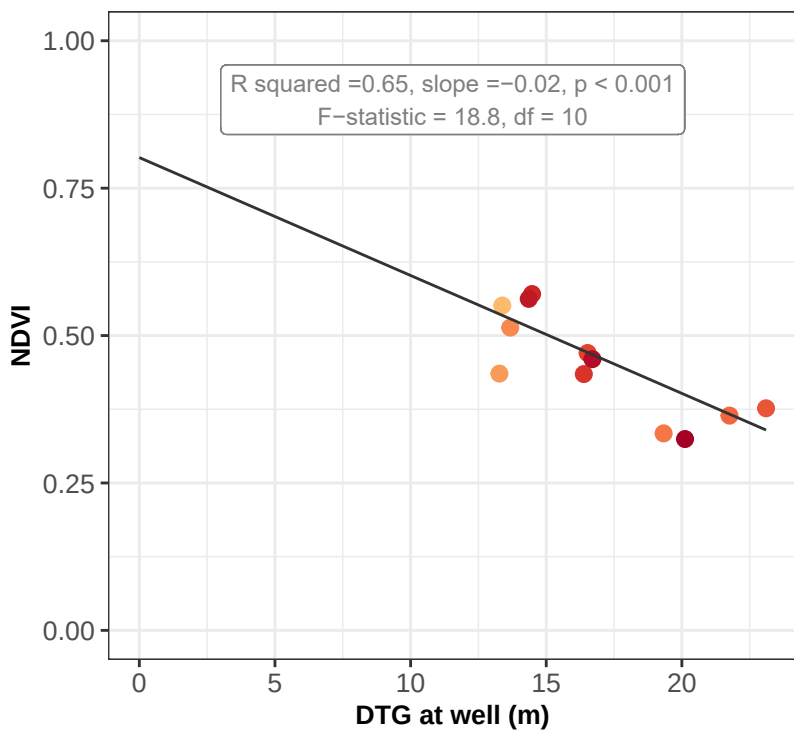
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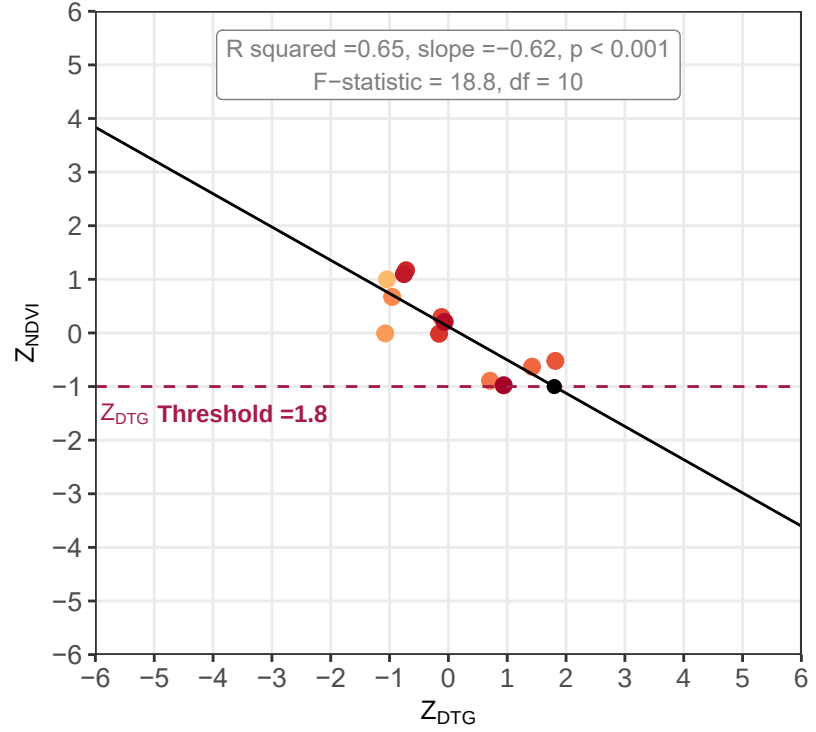
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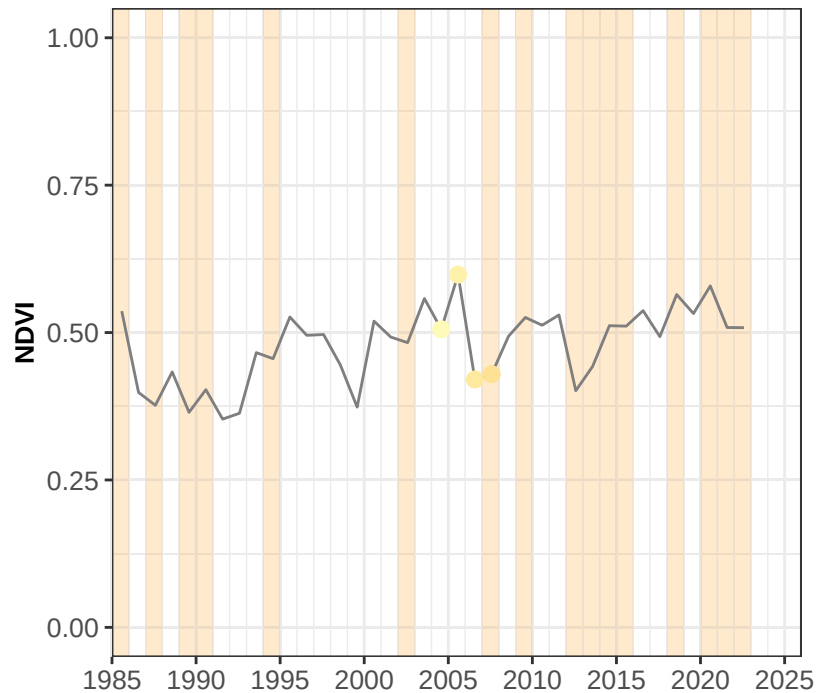


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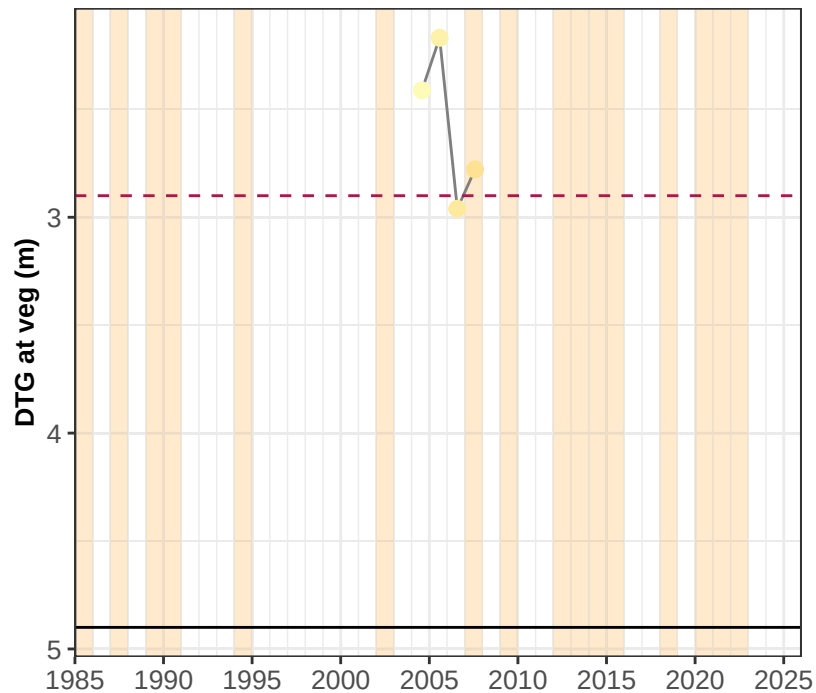


Arundo (gdeID: 27572)

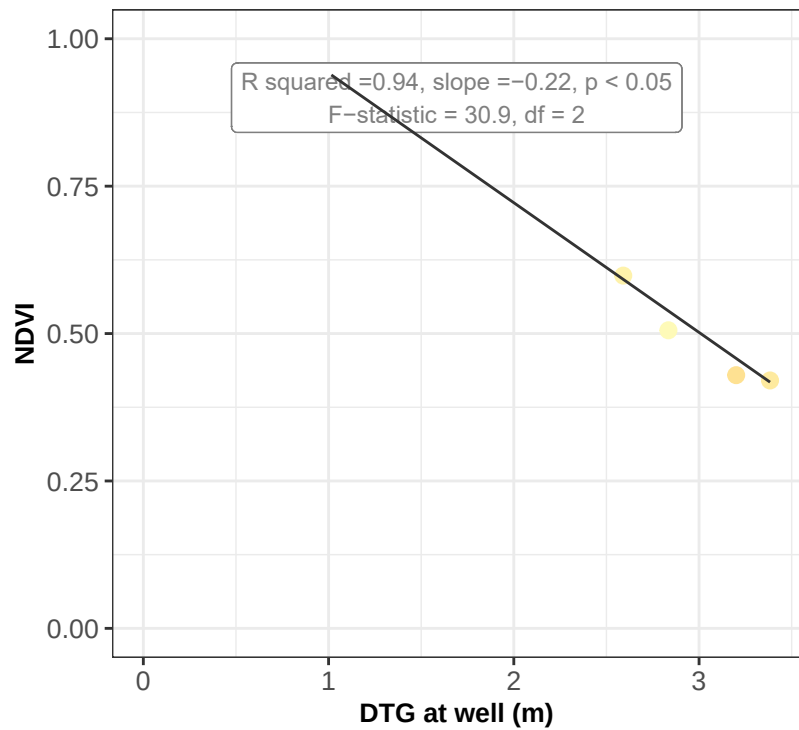
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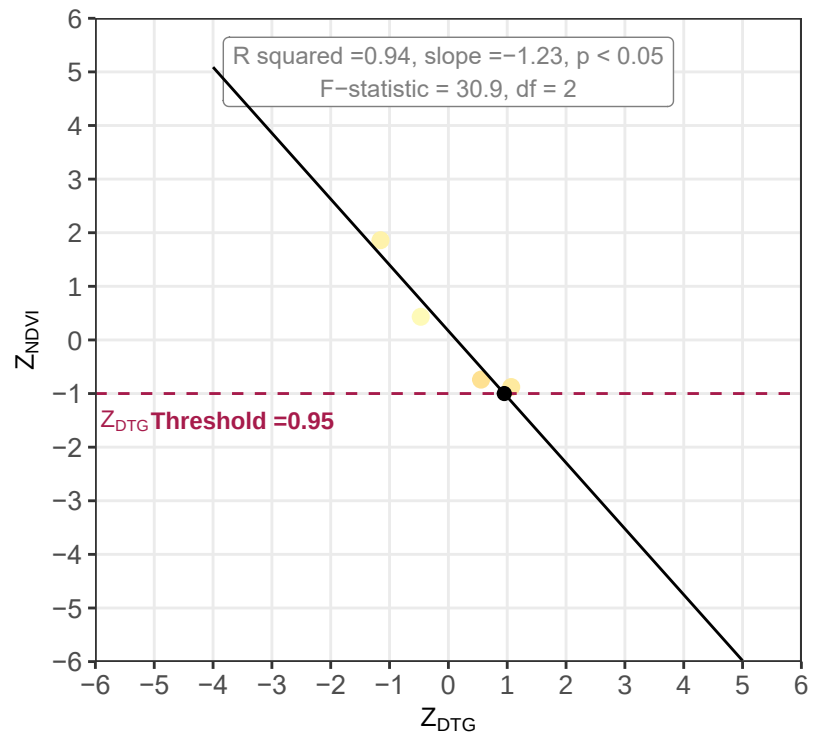
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c

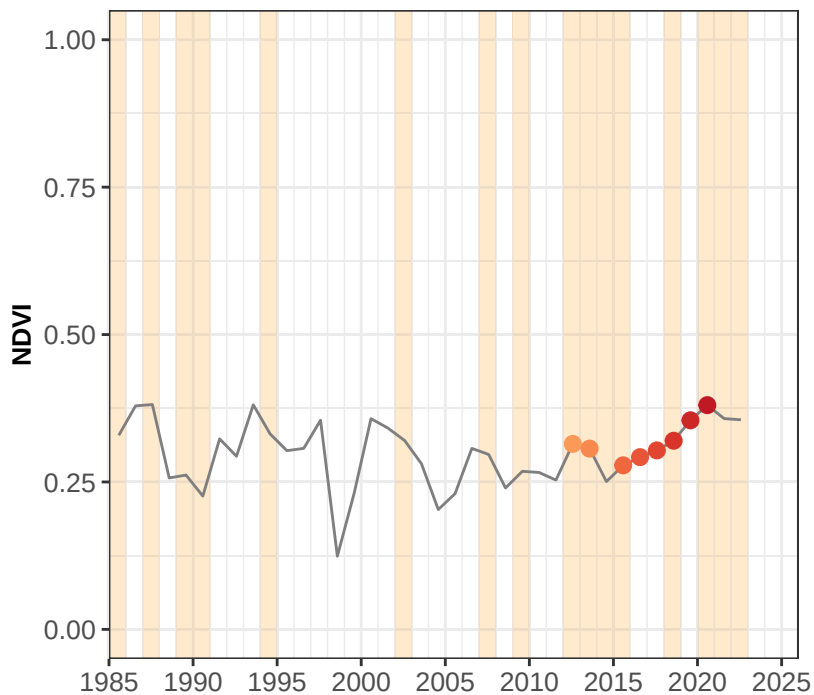


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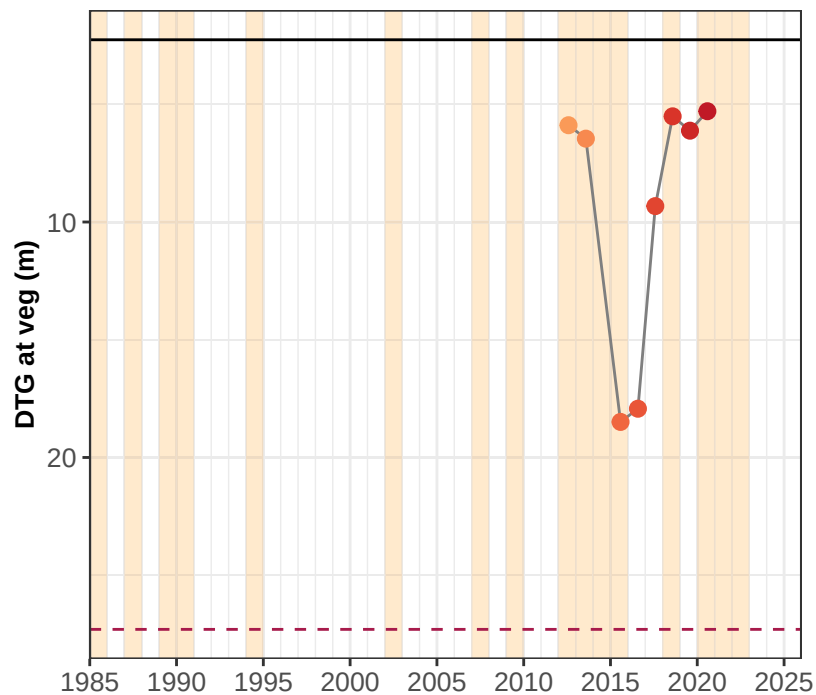


Baccharis (gdeID: 27832)

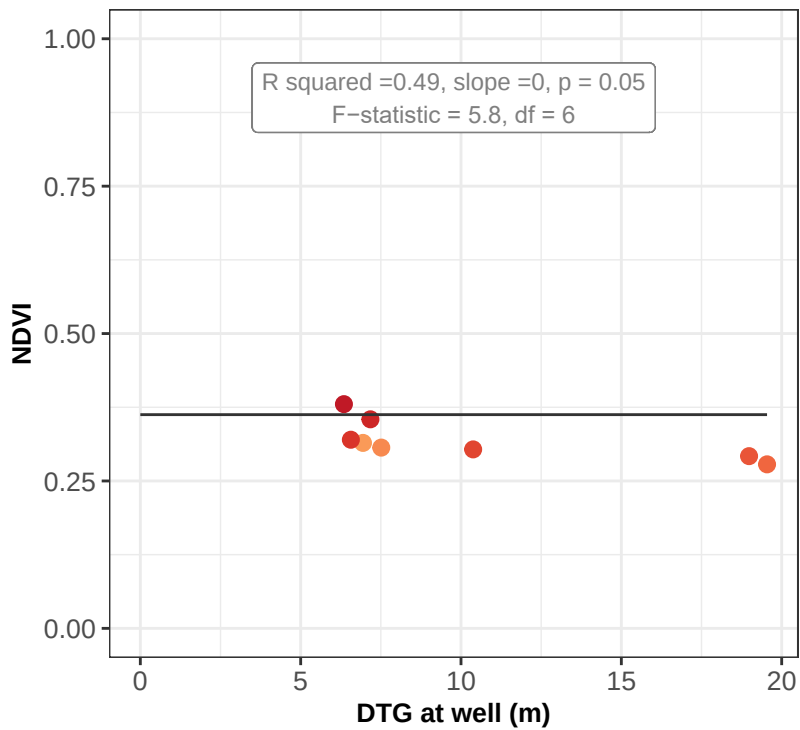
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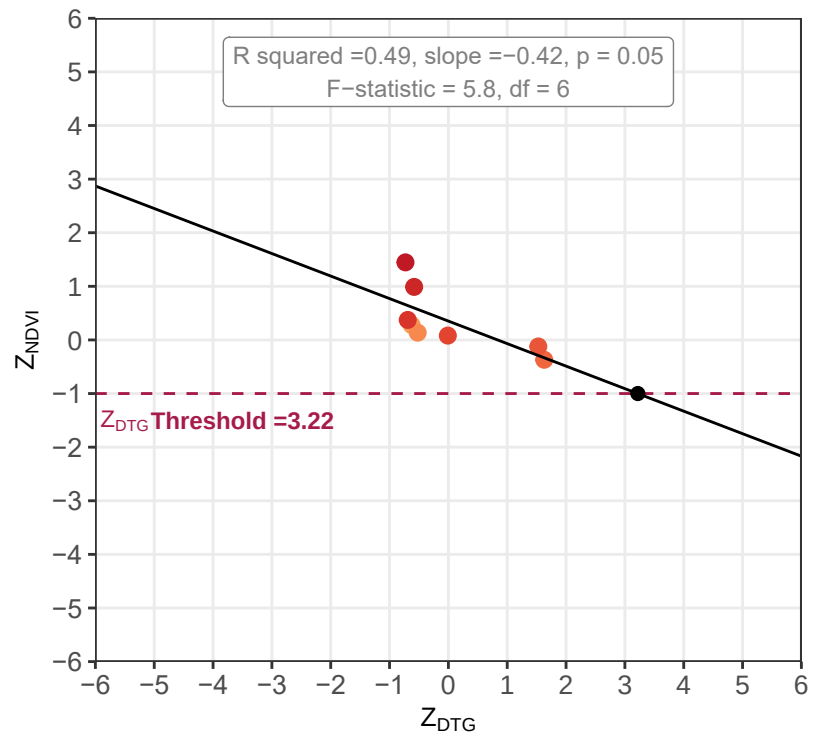
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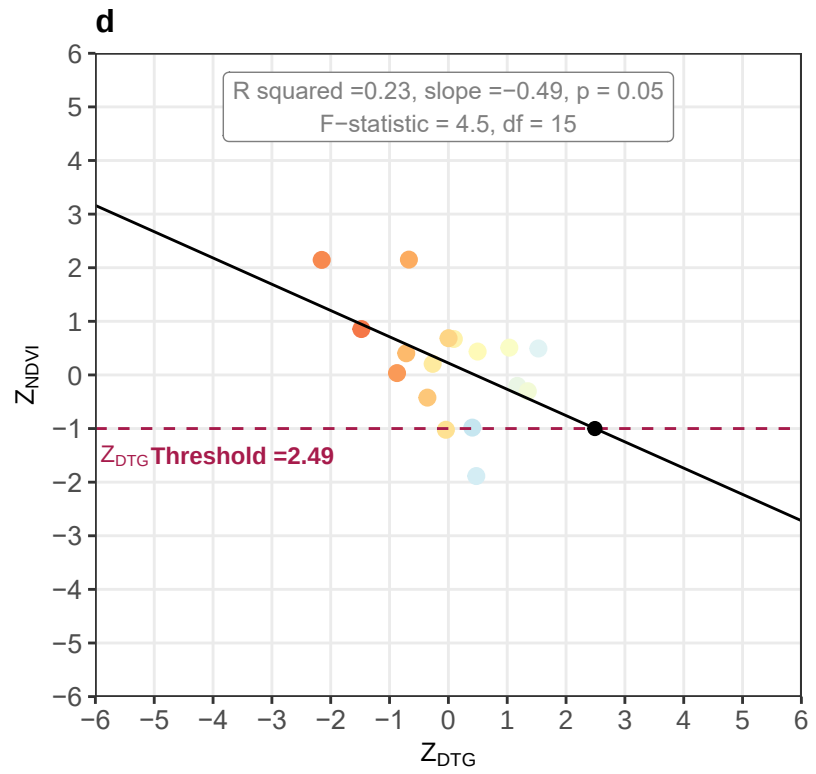
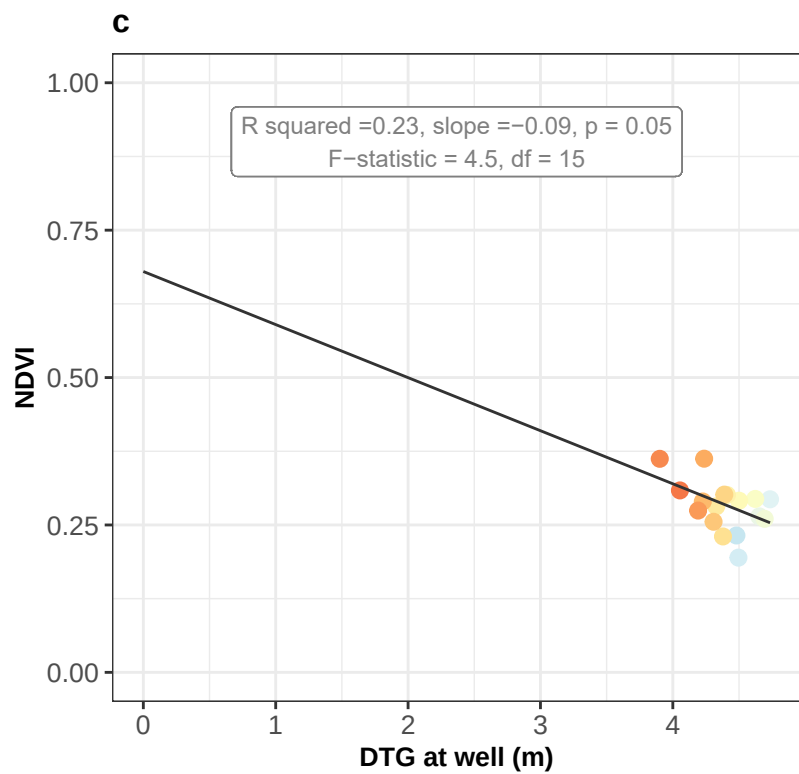
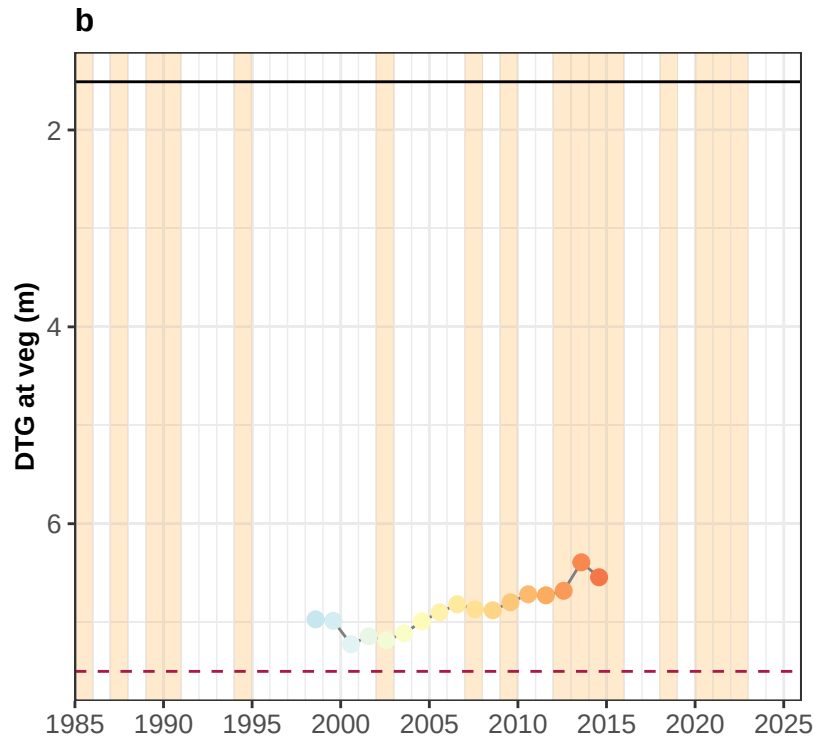
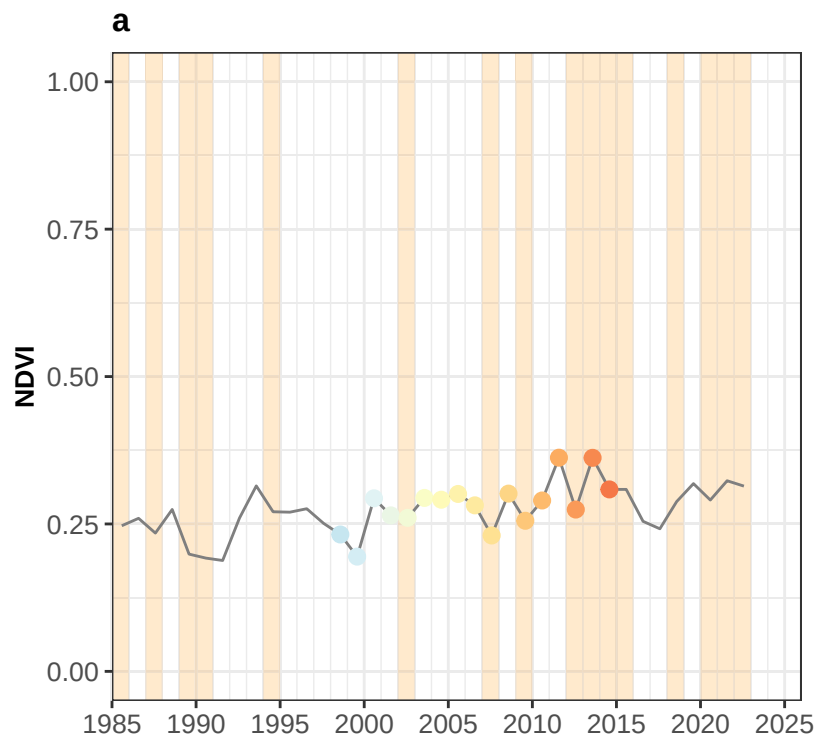
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d

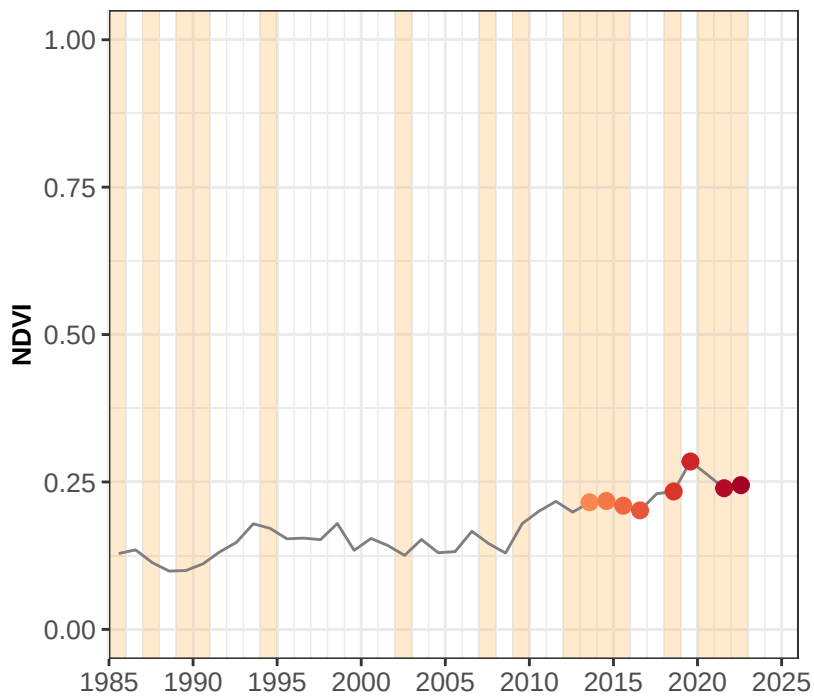


Salix (gdeID: 2796)

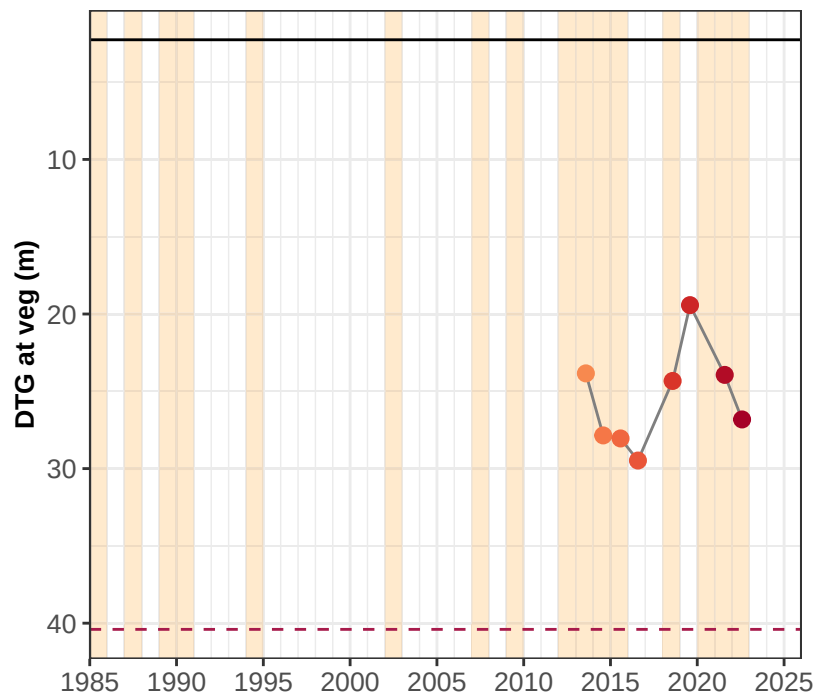


Baccharis (gdeID: 28148)

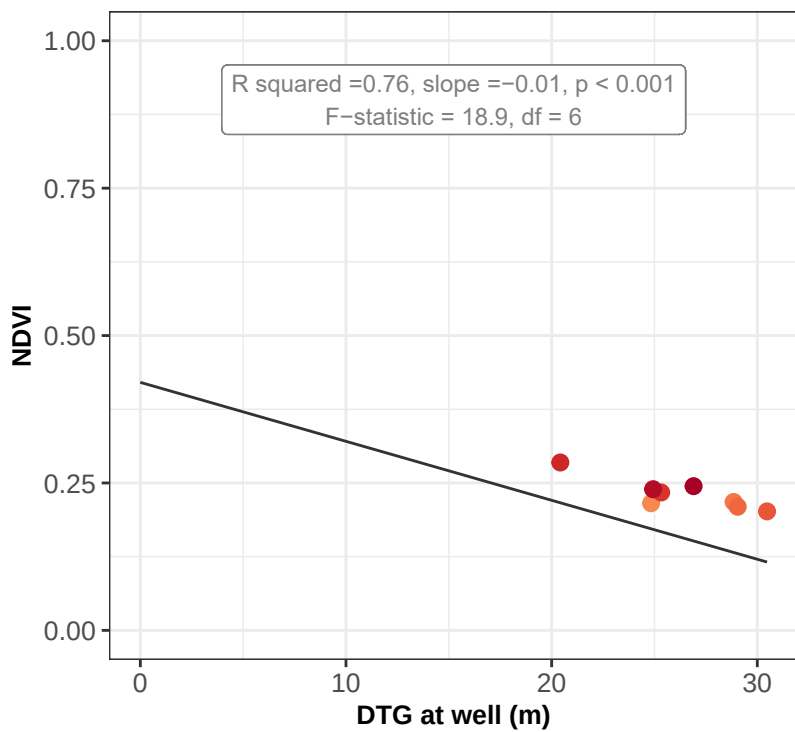
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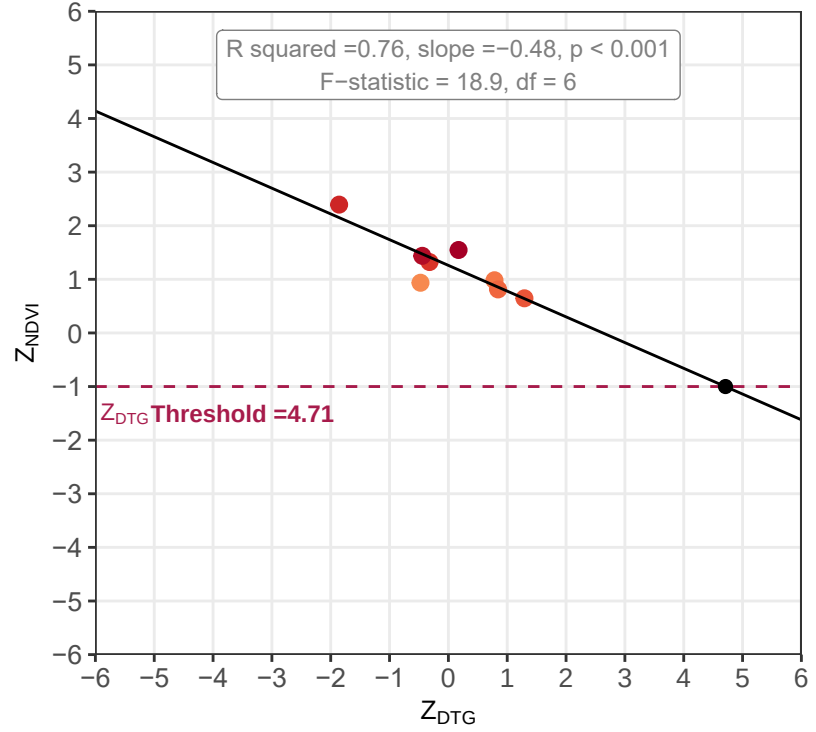
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c

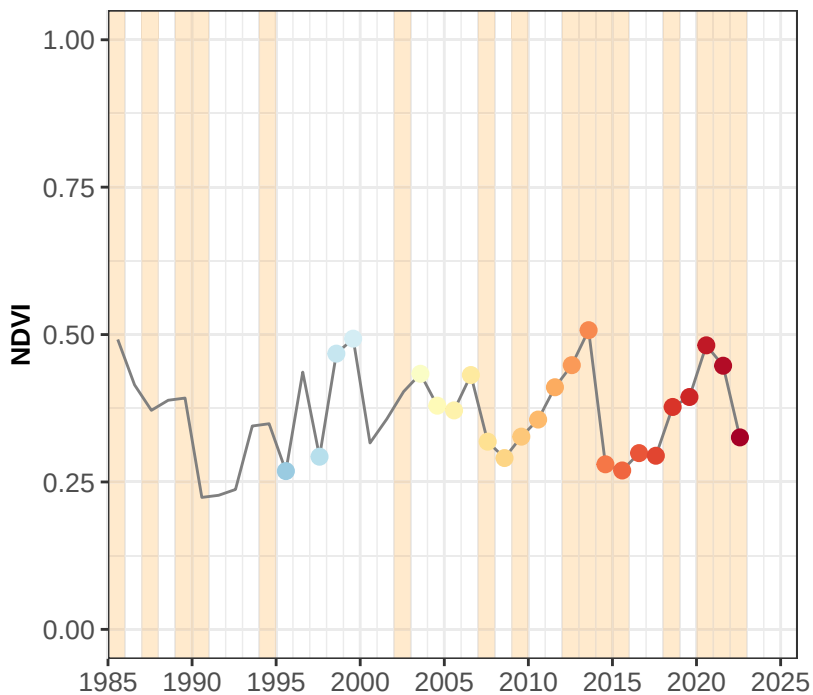


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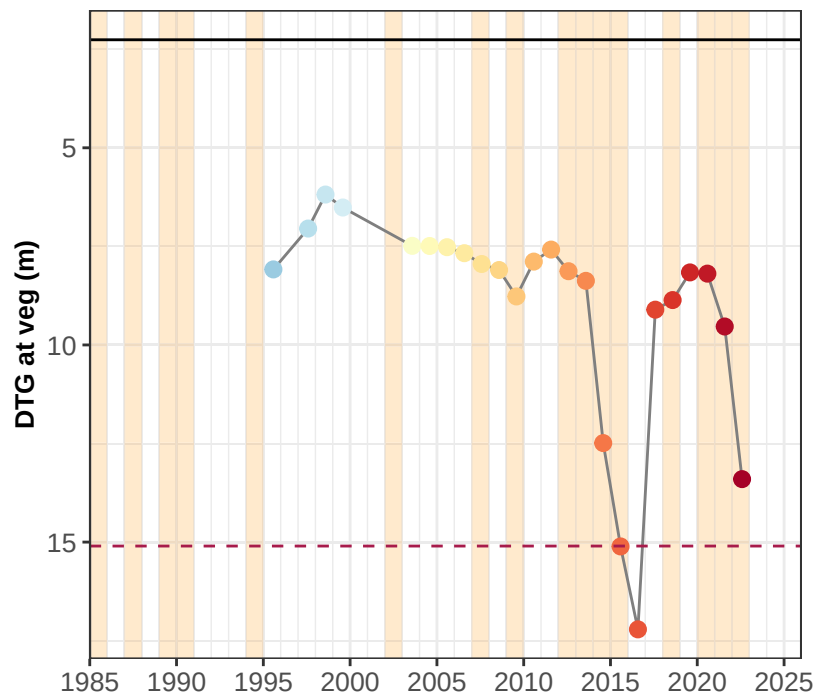


Baccharis (gdeID: 28349)

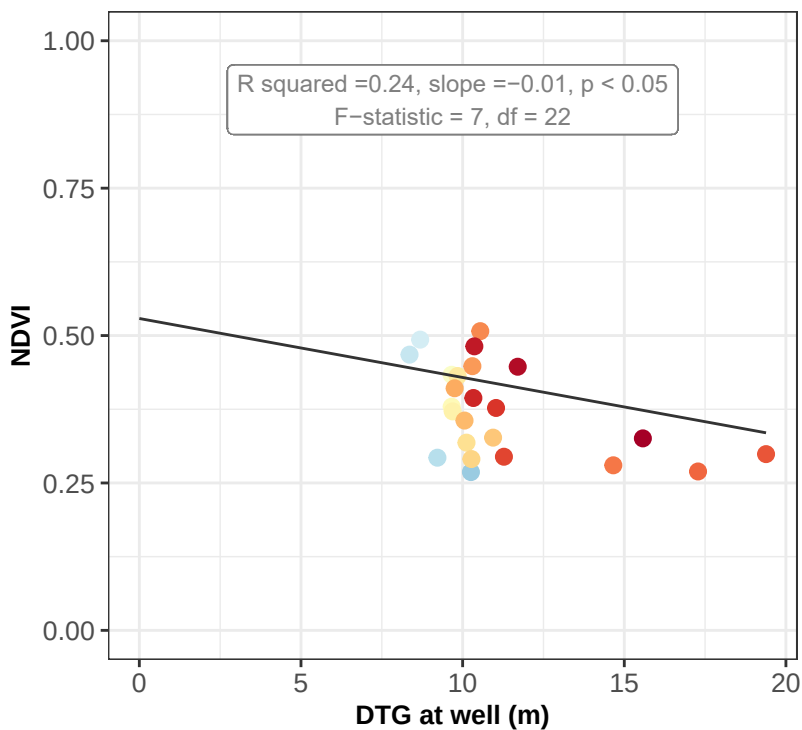
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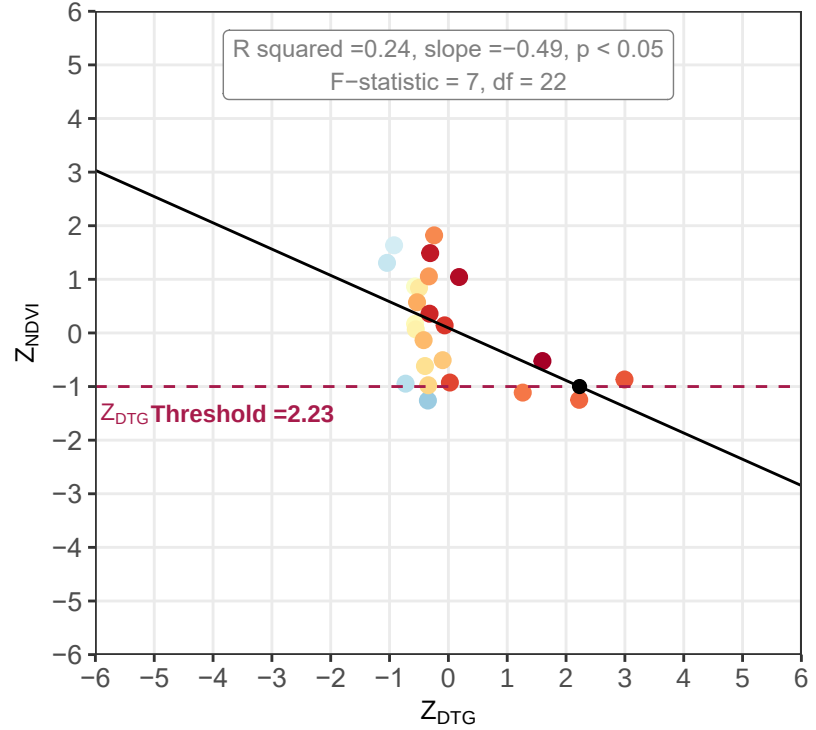
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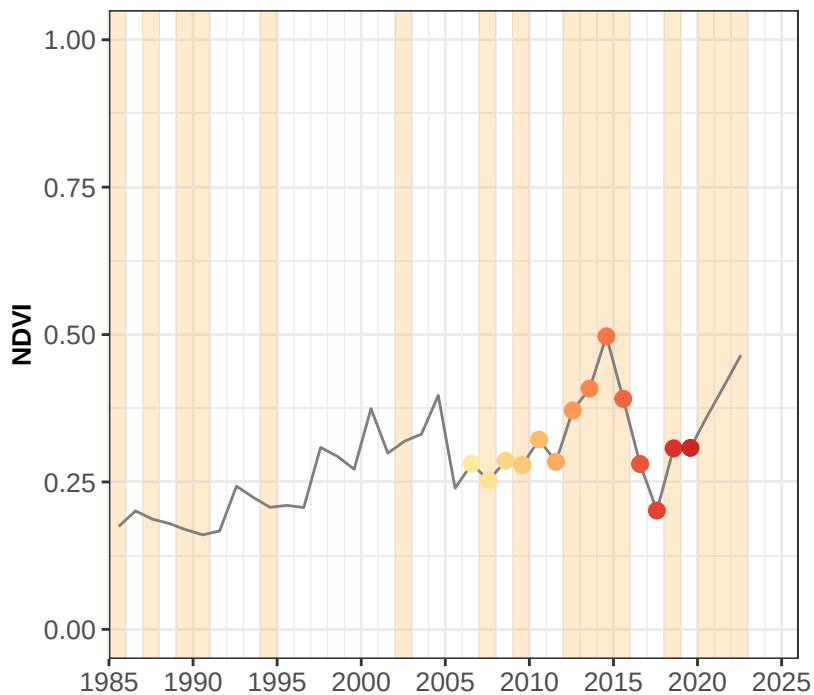


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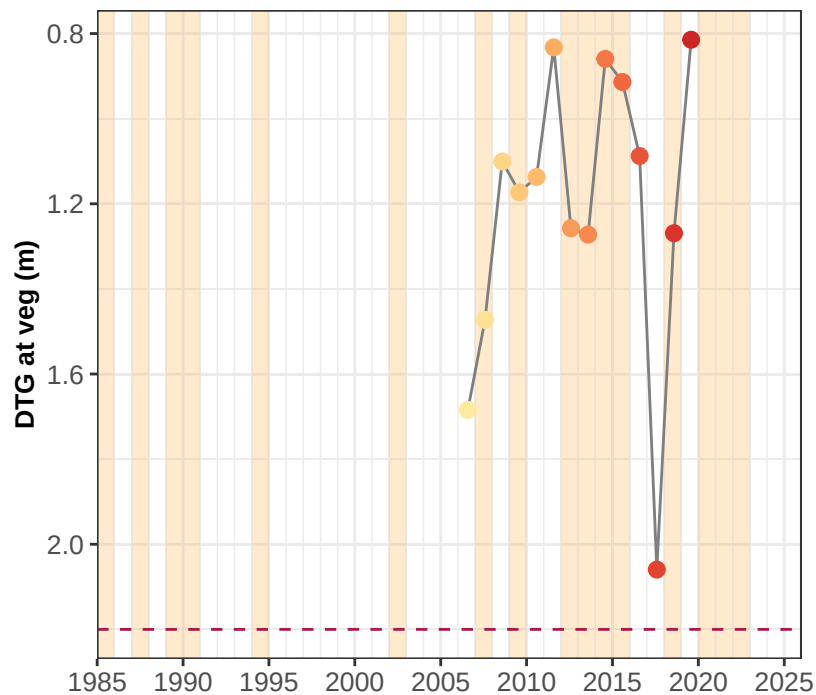


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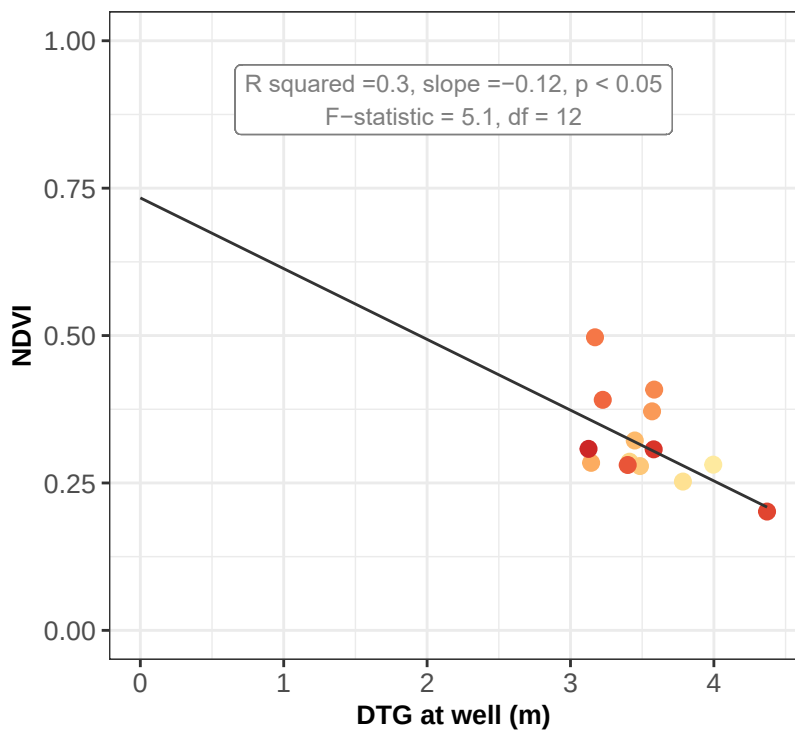
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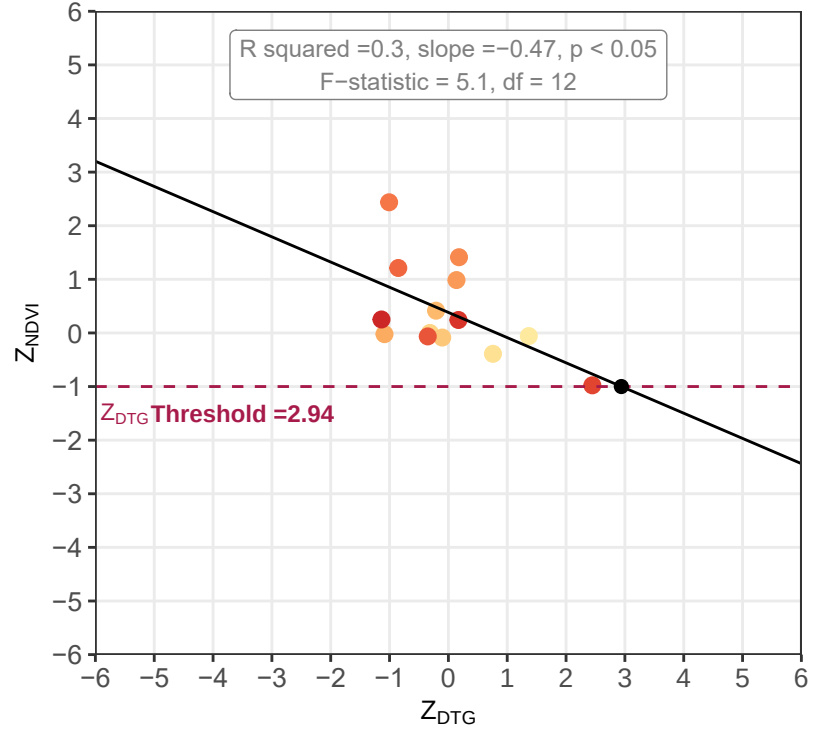
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c

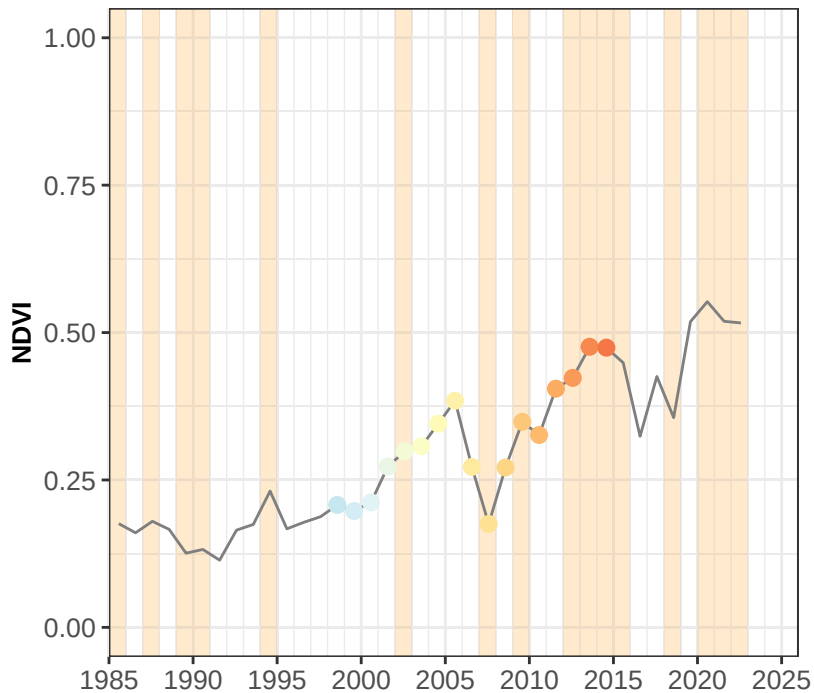


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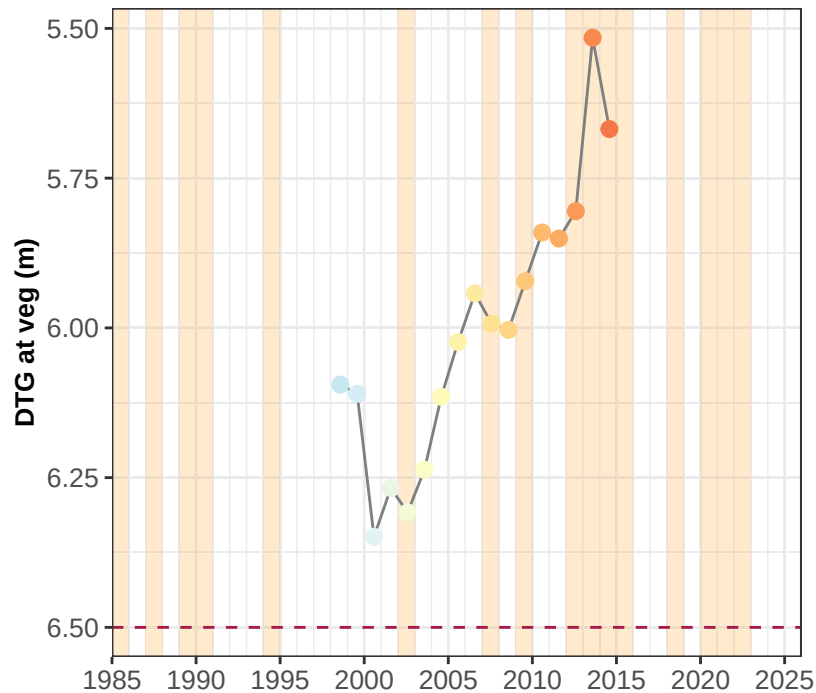


(gdeID: 2954)

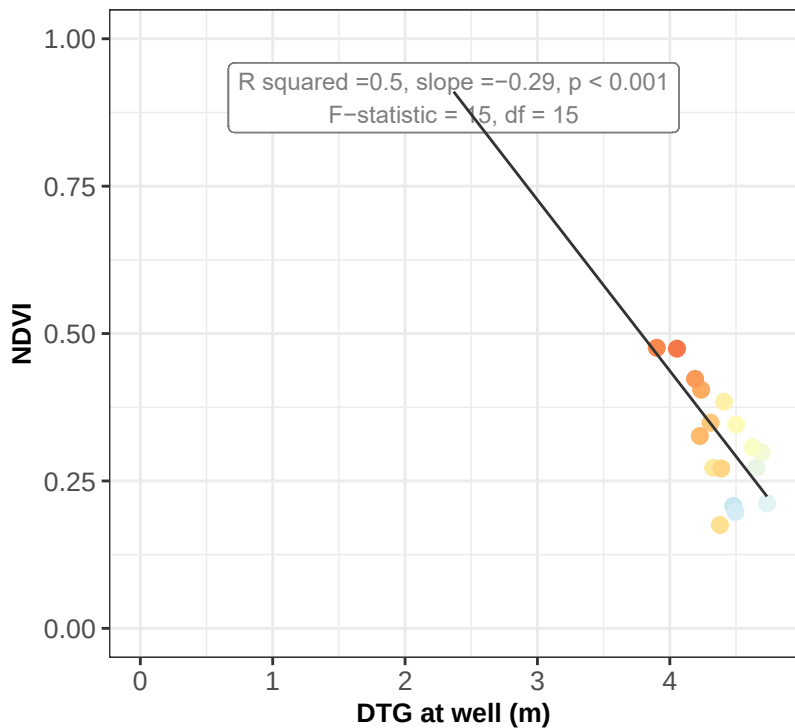
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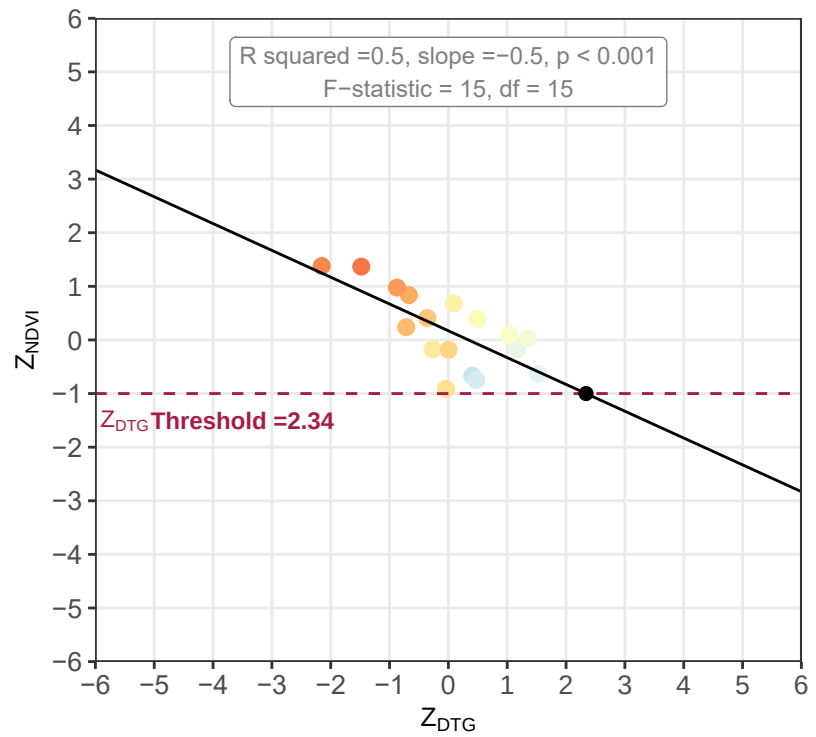
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c

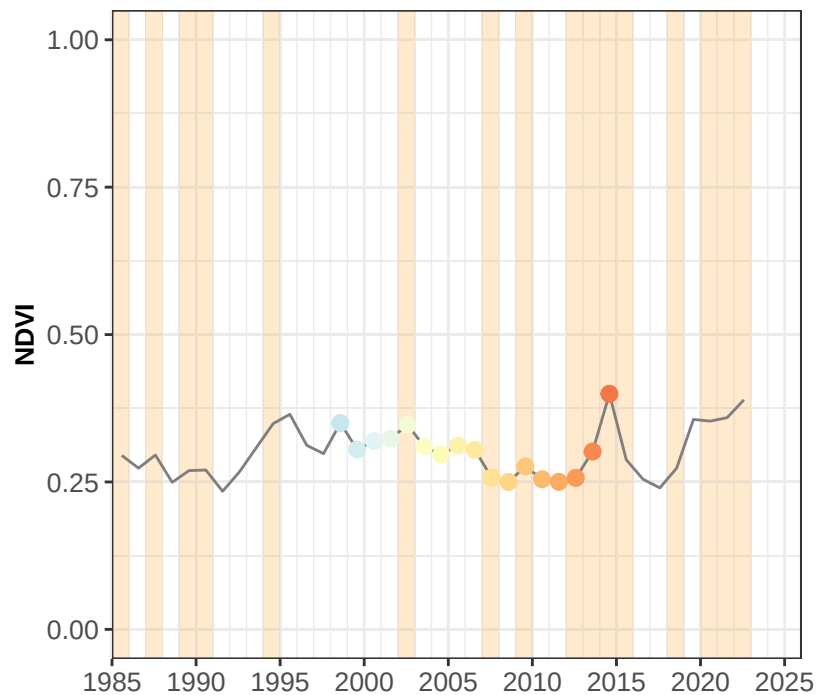


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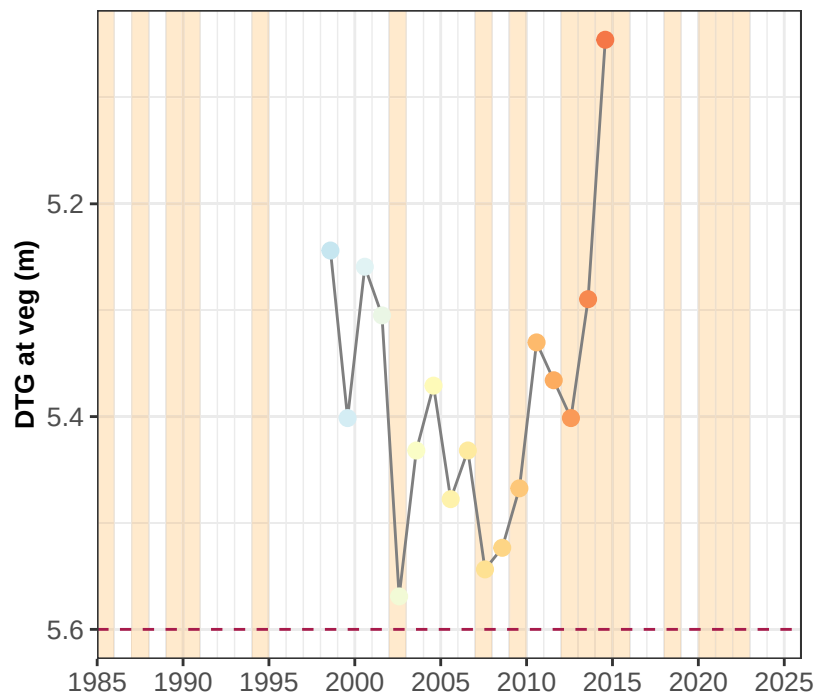


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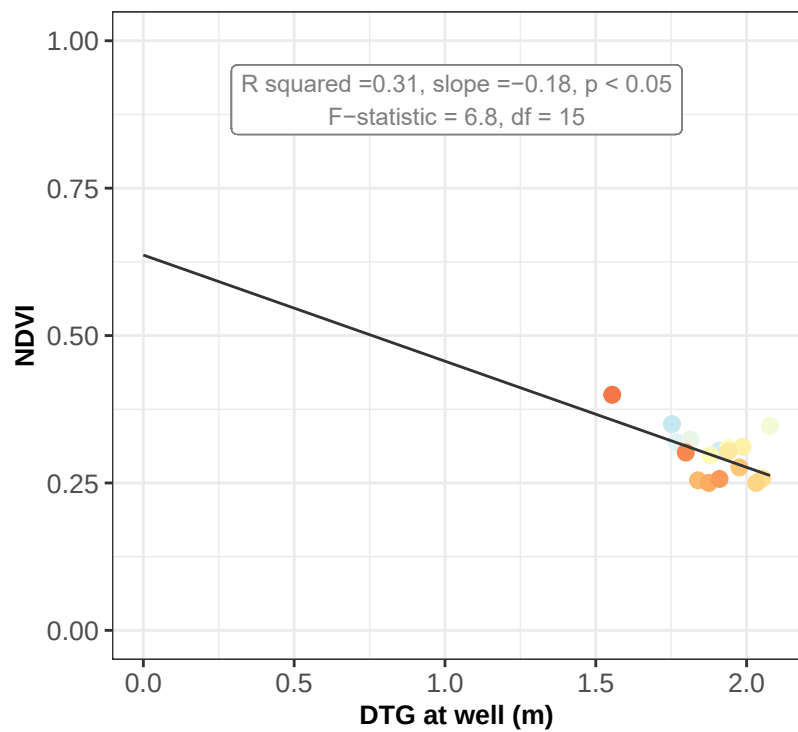
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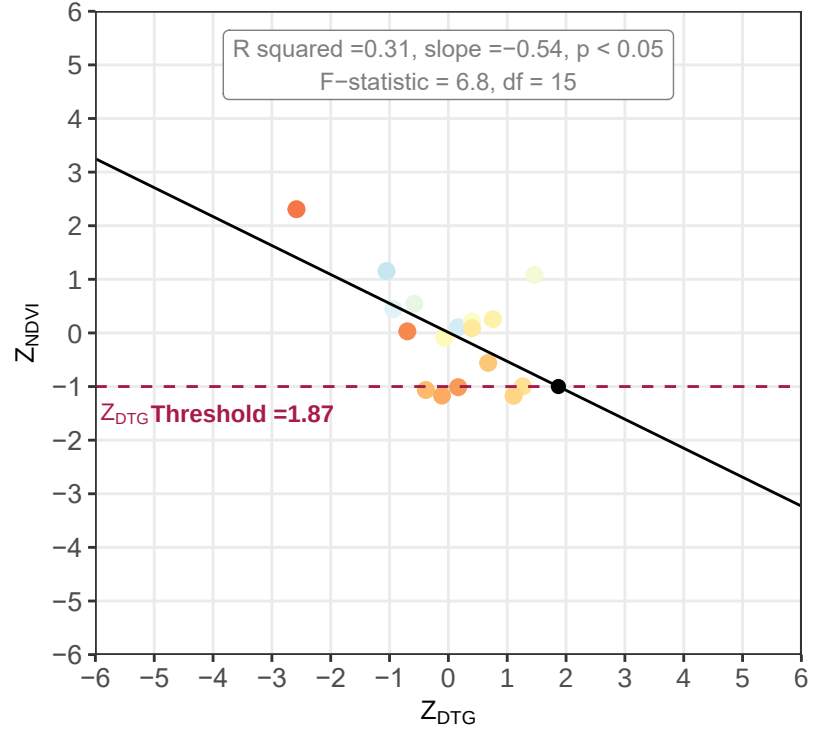
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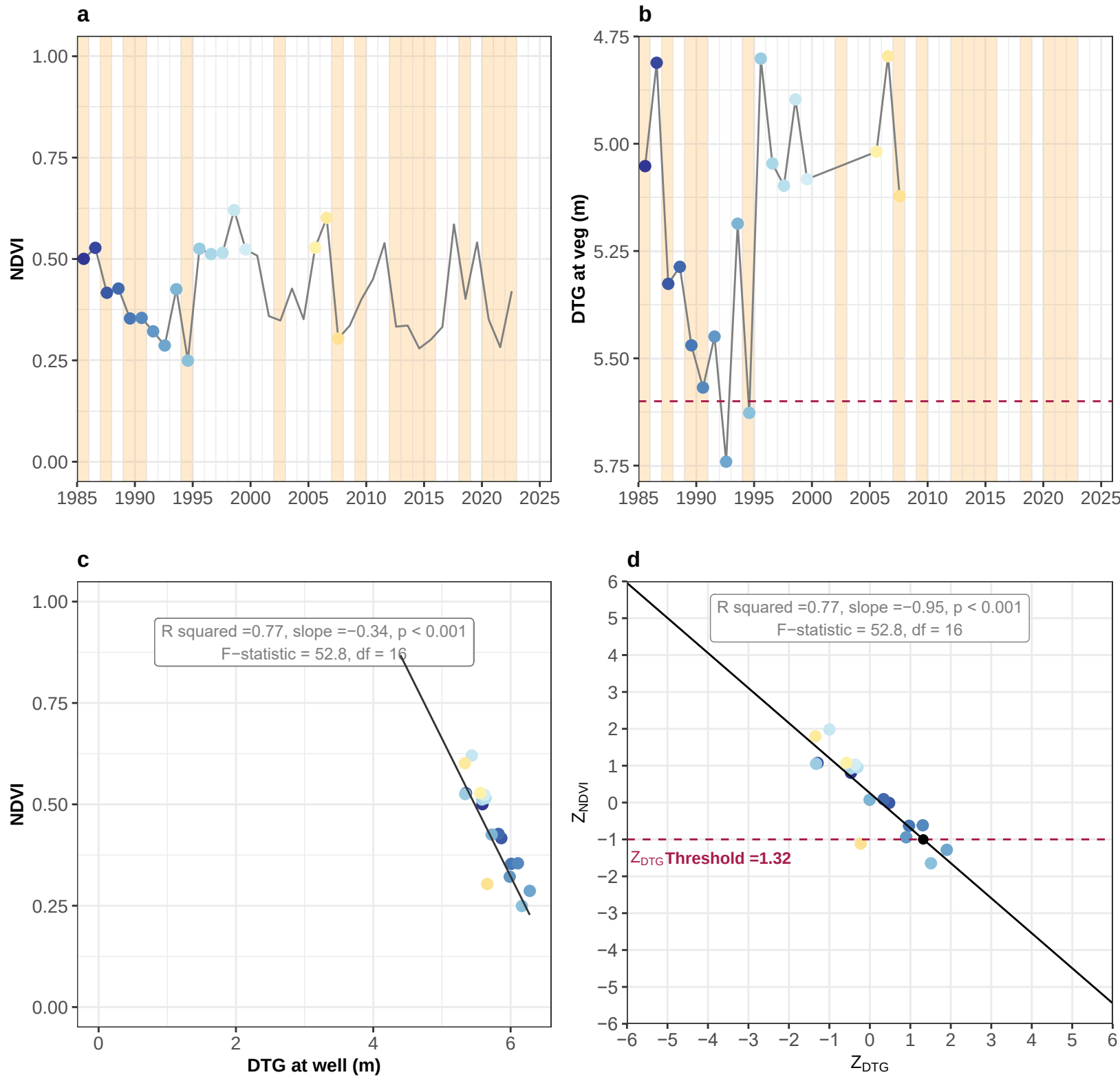
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d

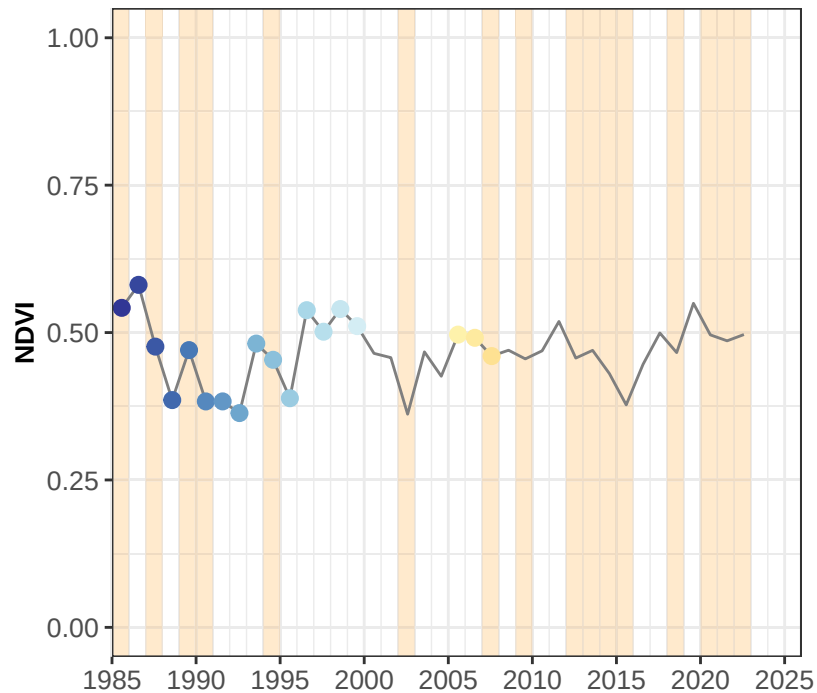


Flooded Veg (gdeID: 301432)

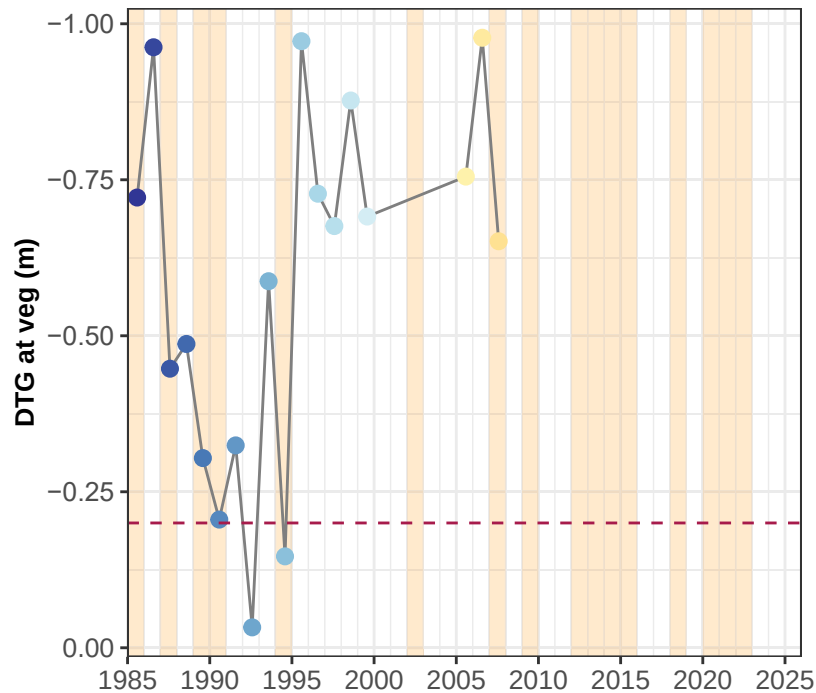


Flooded Veg (gdeID: 301438)

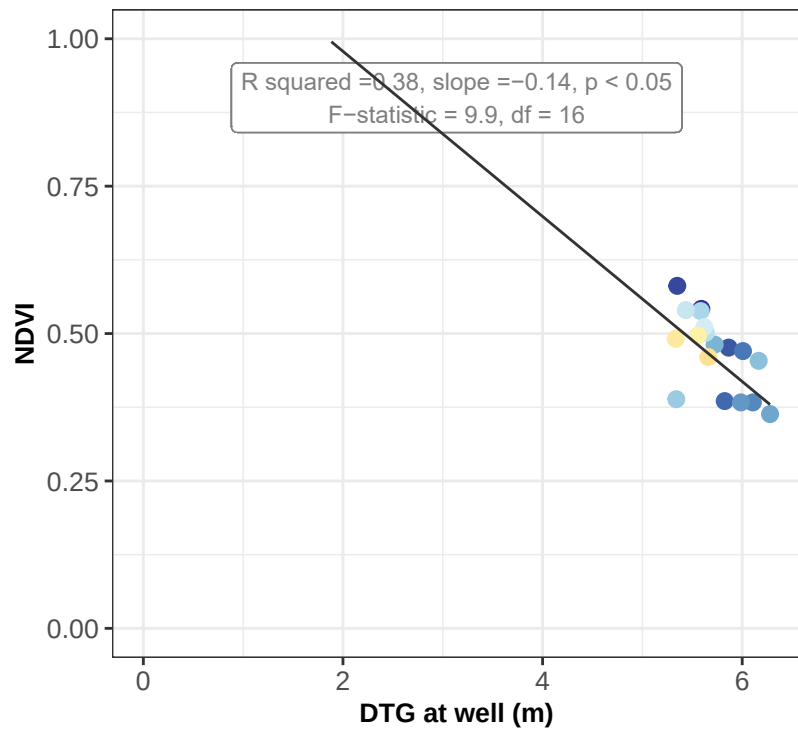
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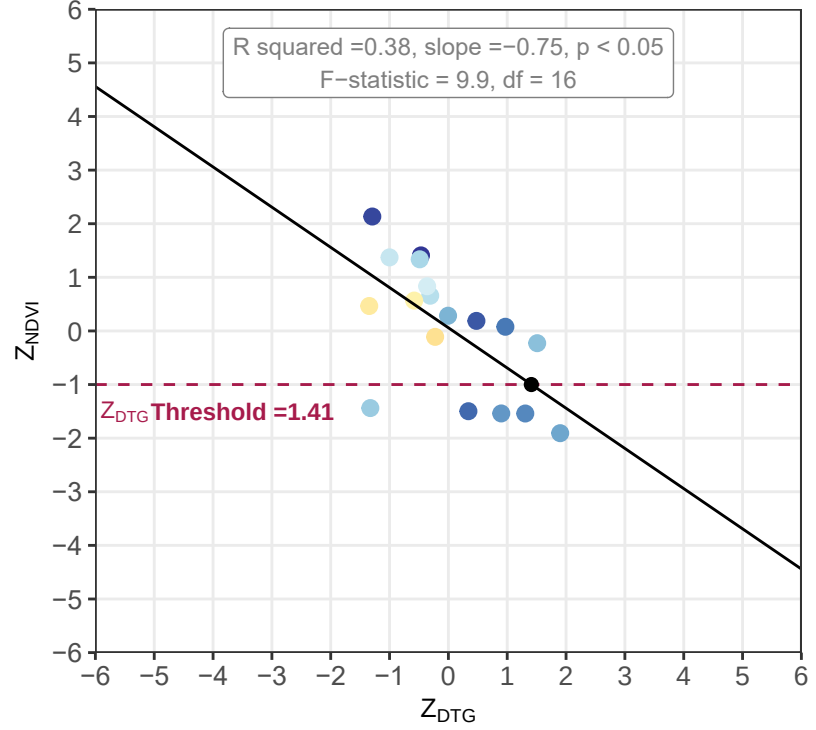
b



c

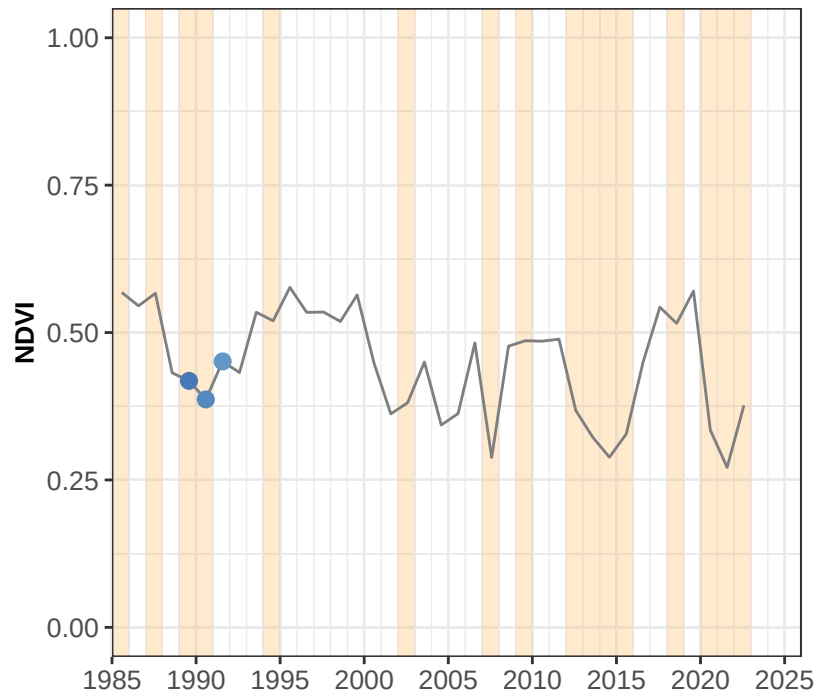


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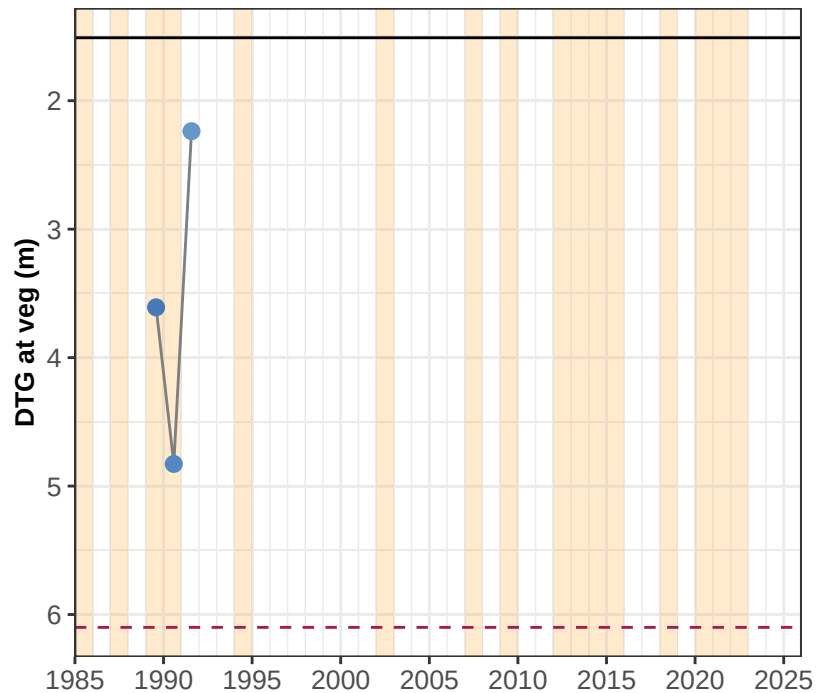


Salix (gdeID: 302074)

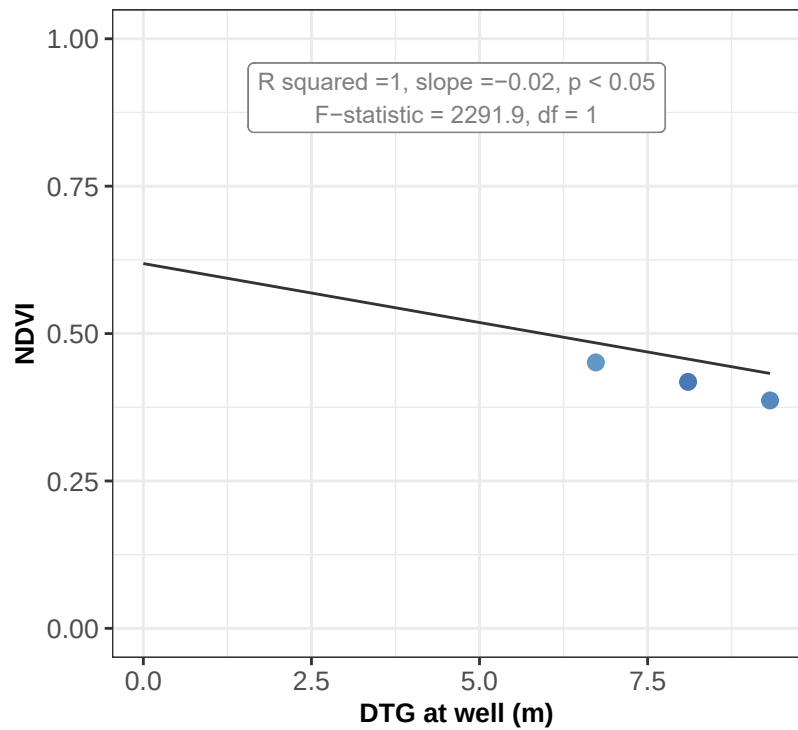
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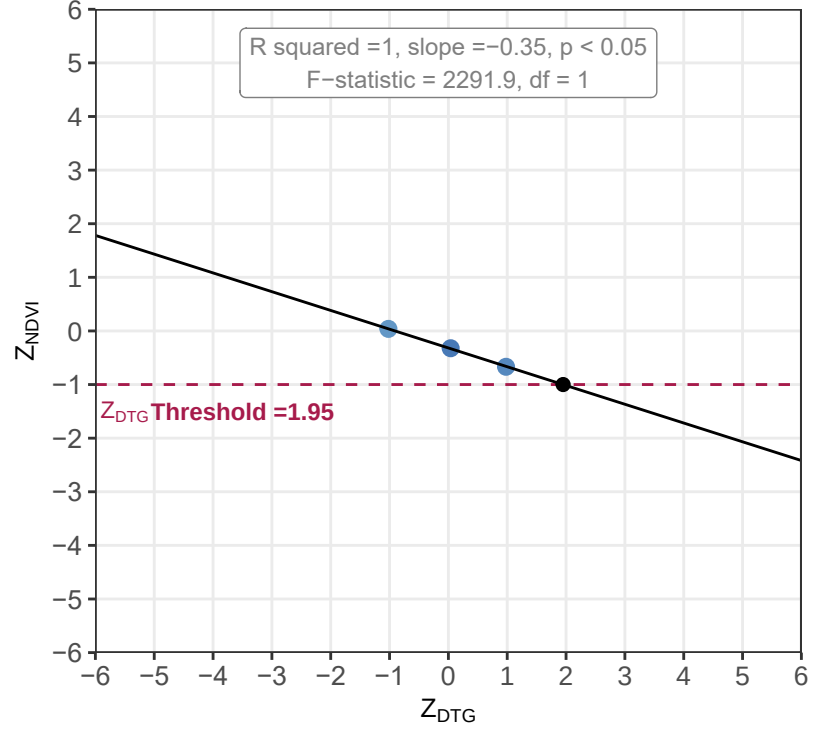
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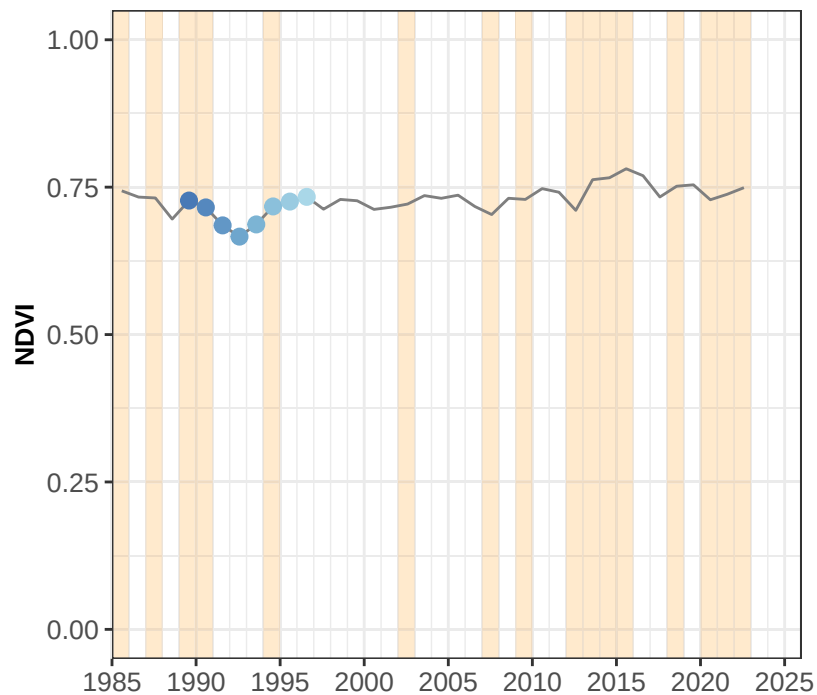


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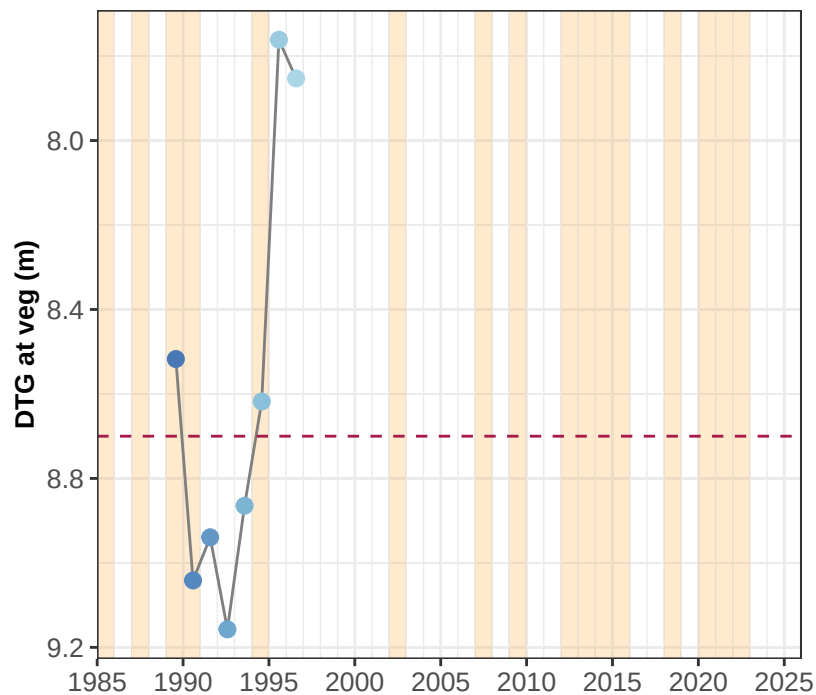


(gdeID: 302768)

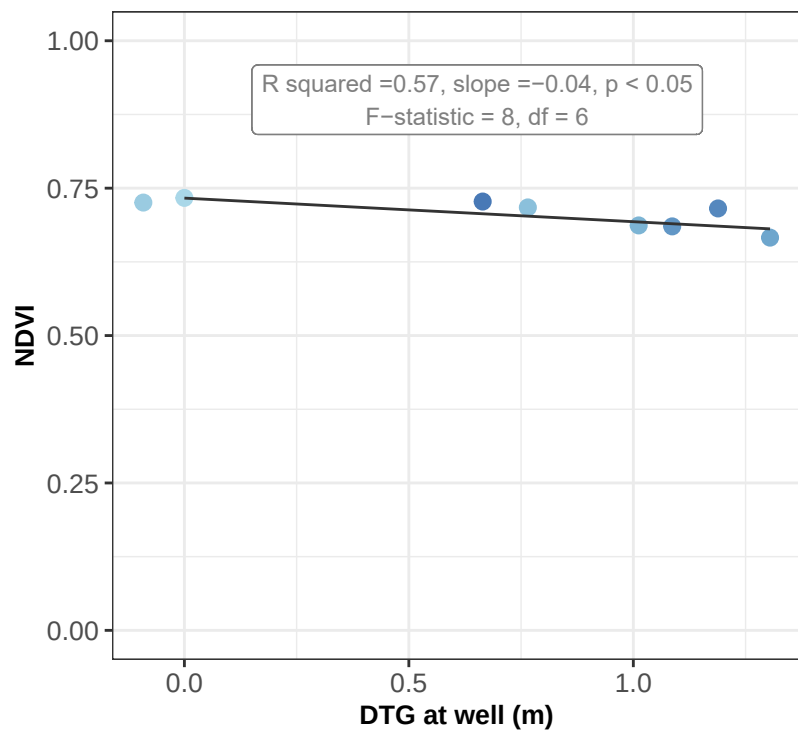
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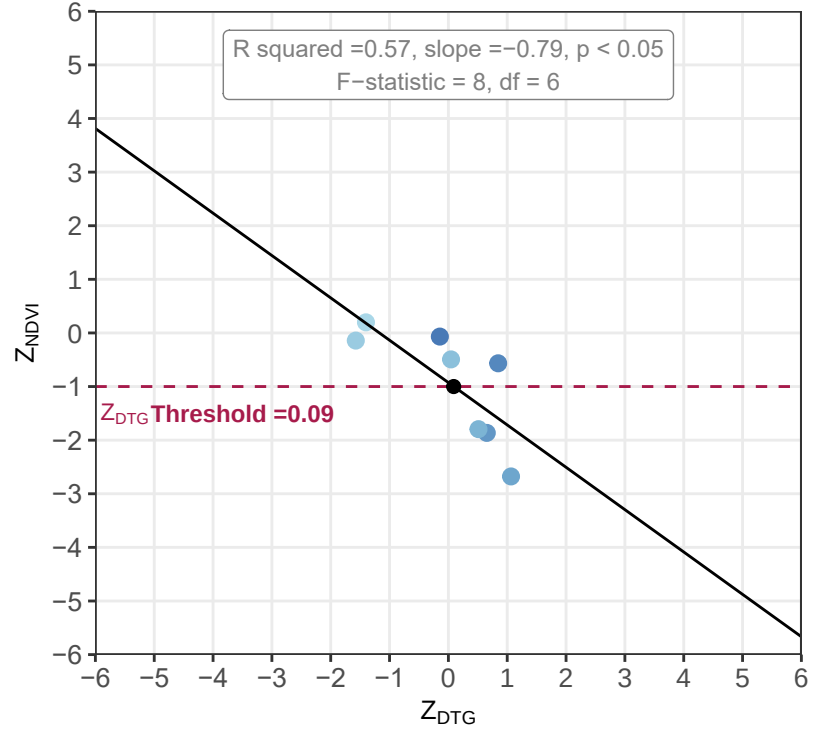
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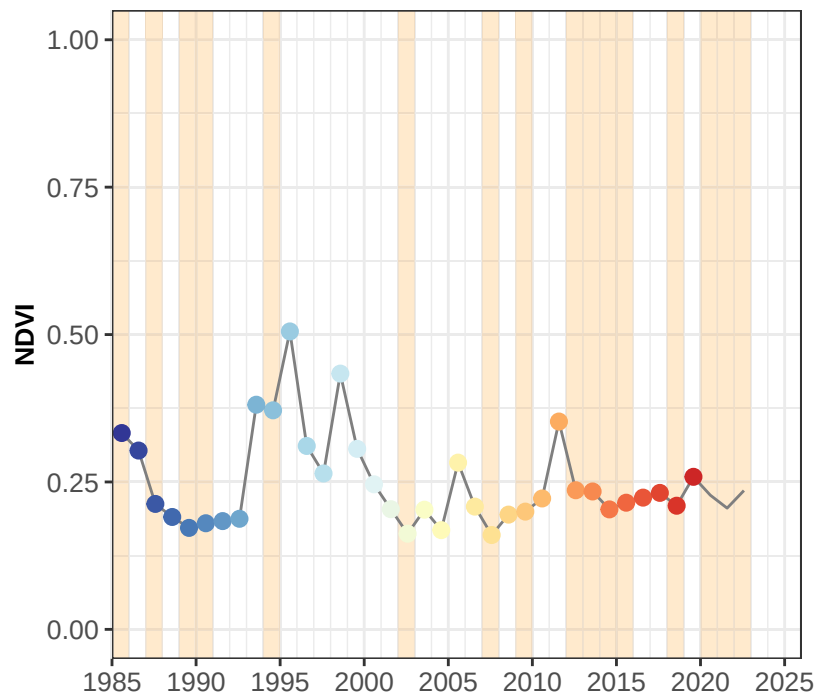


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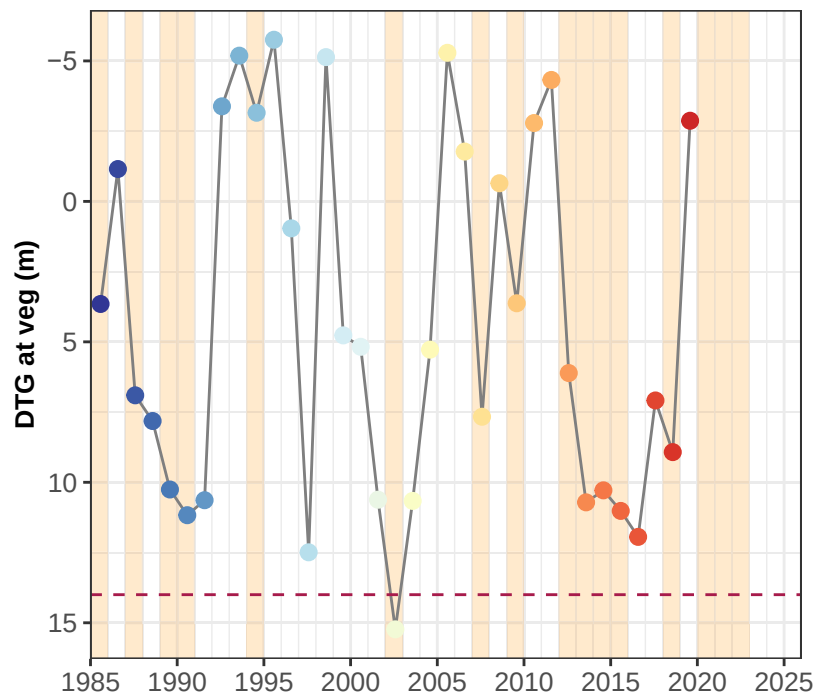


Lepidospartum (gdeID: 309042)

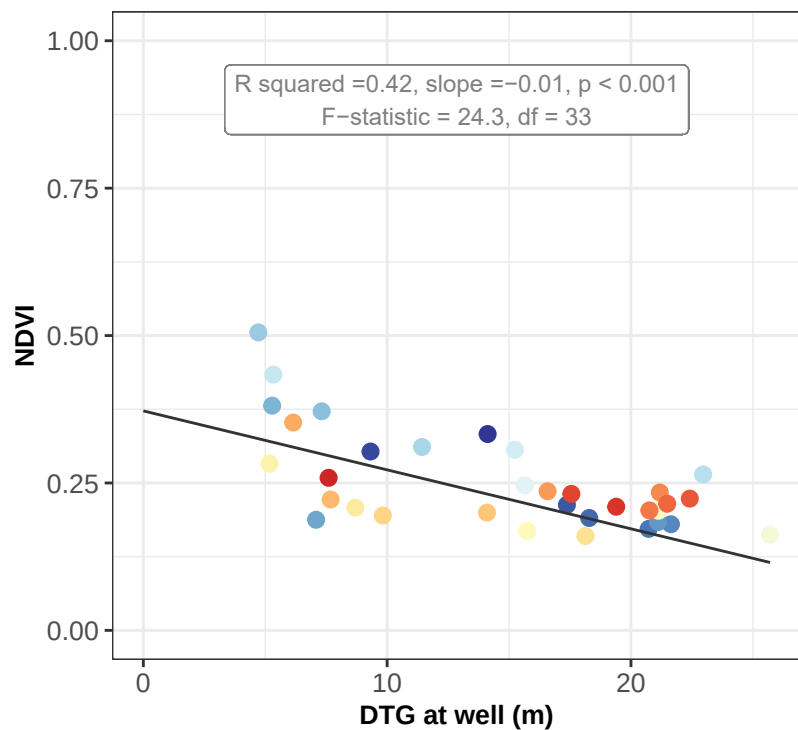
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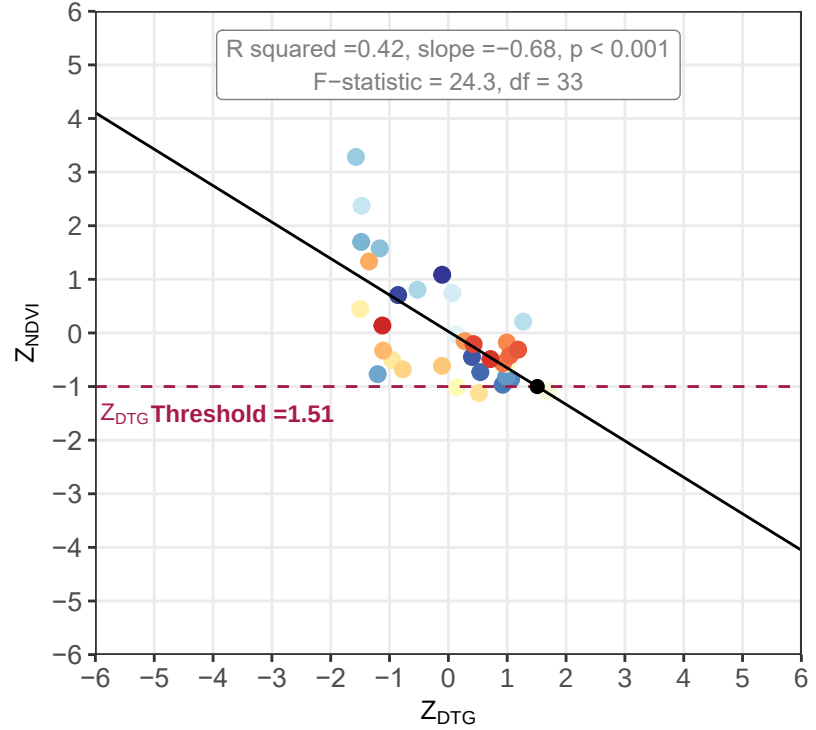
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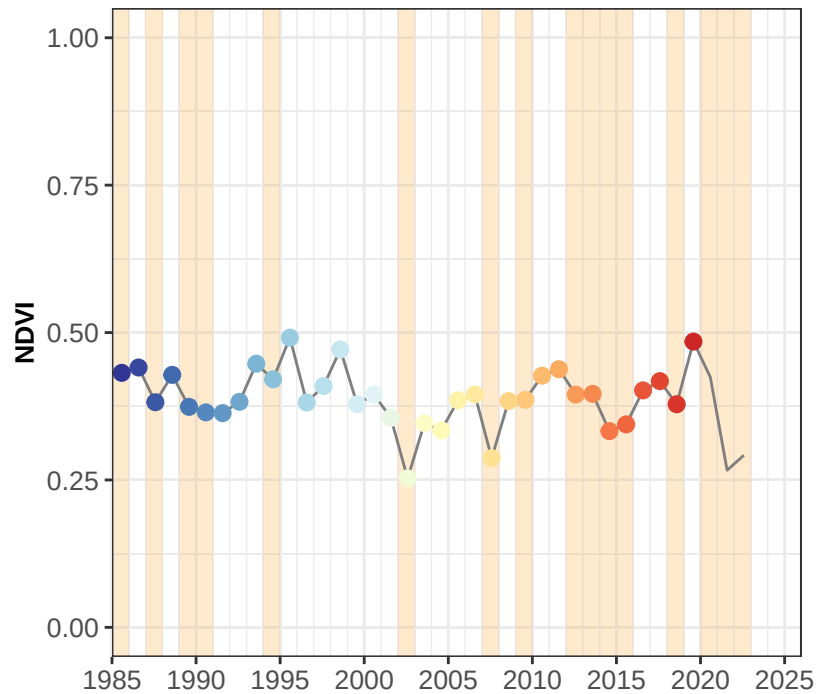


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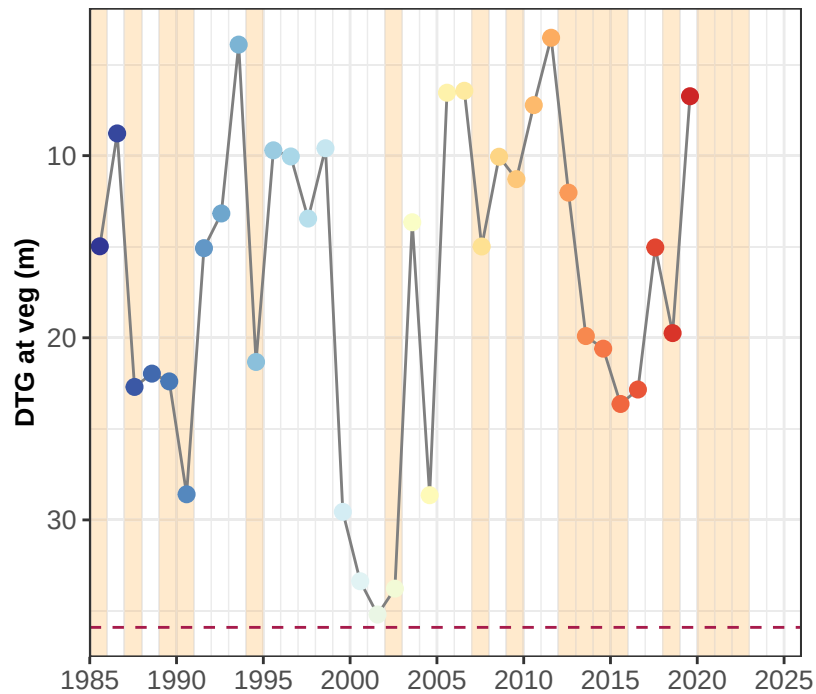


Platanus (gdeID: 314968)

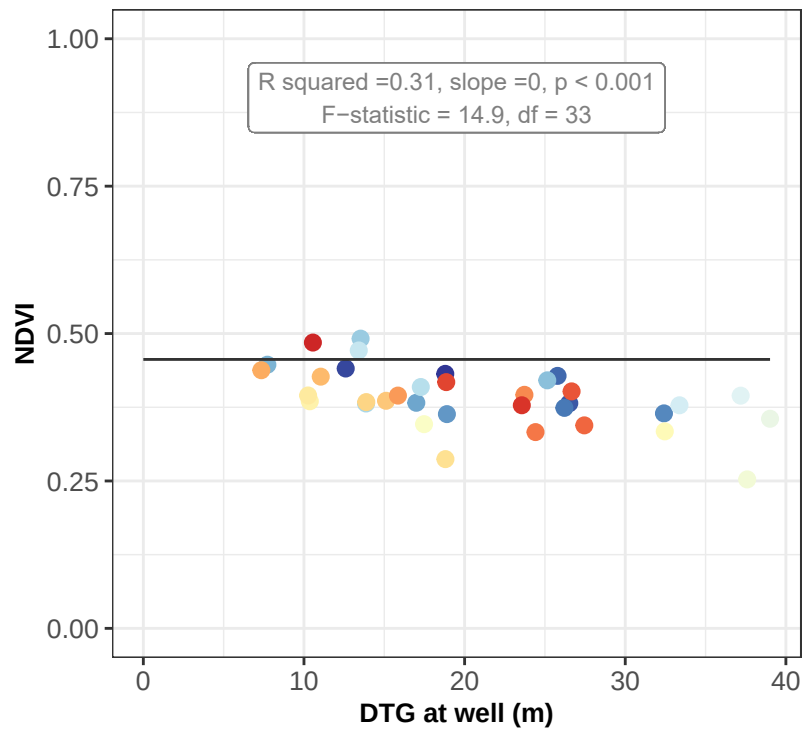
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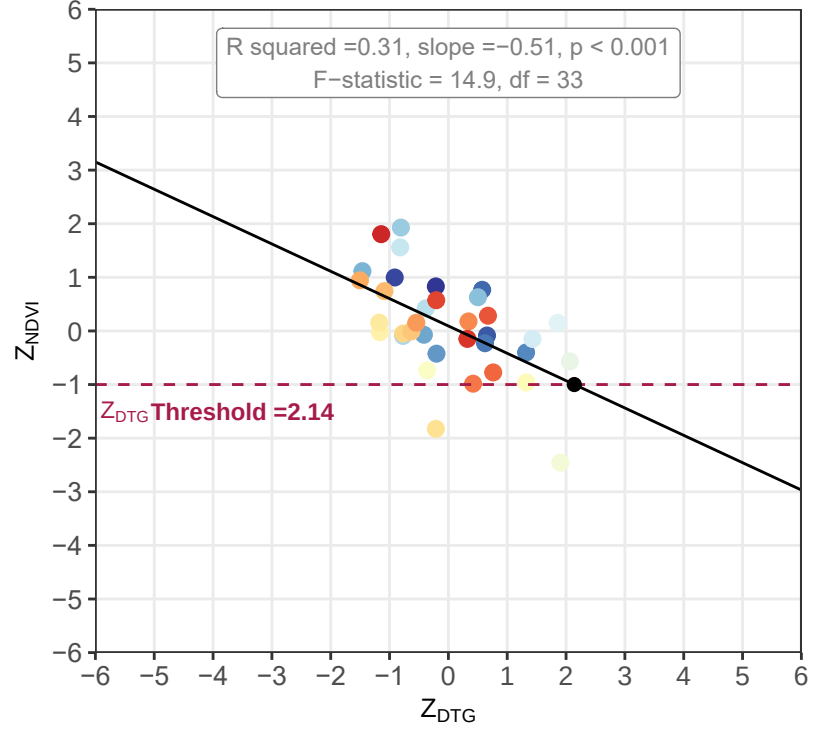
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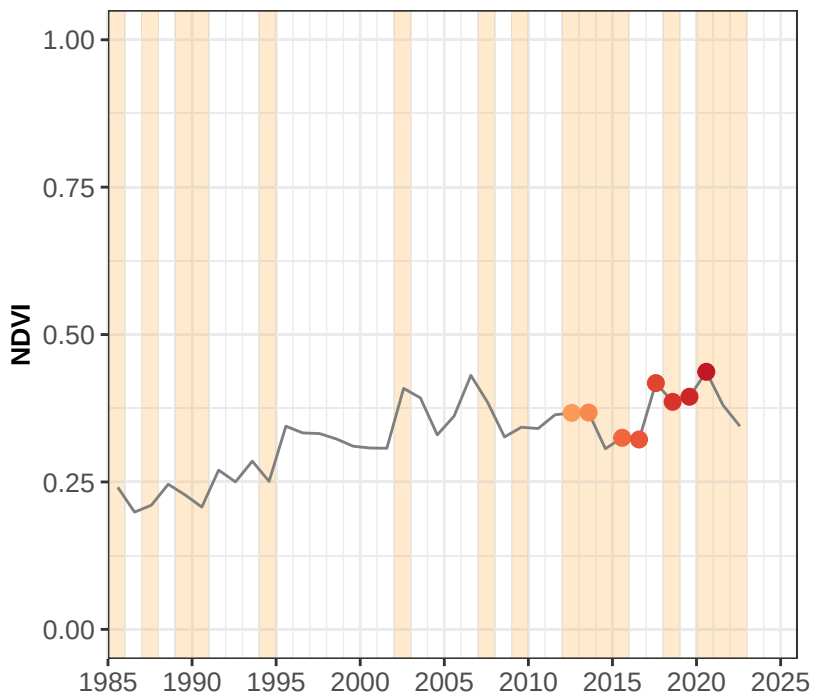


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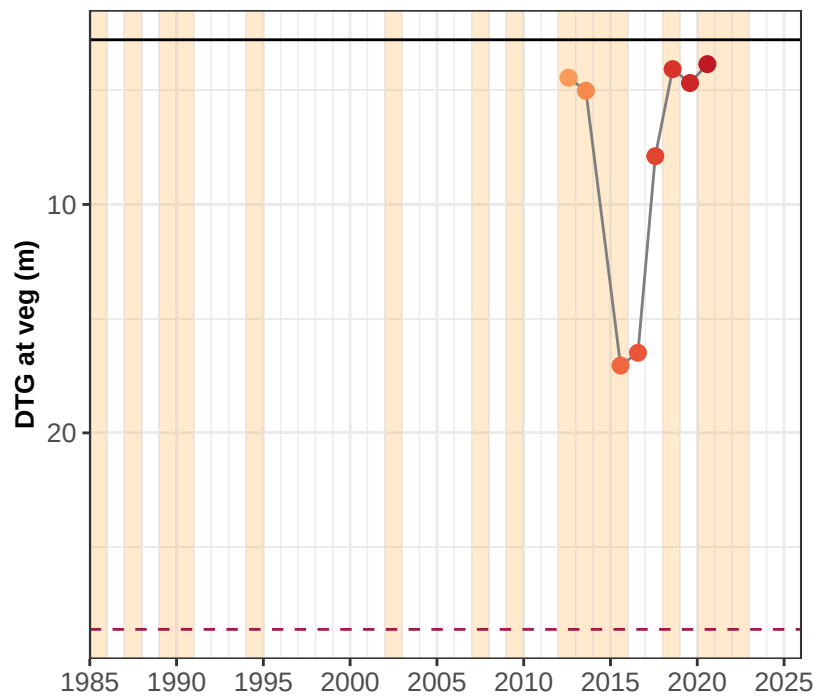


Populus (gdeID: 31621)

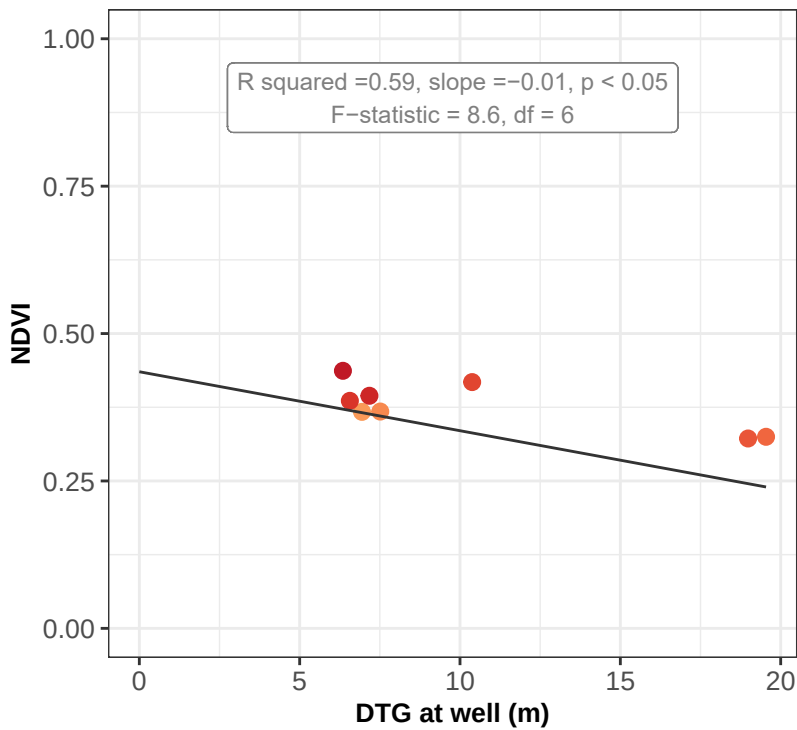
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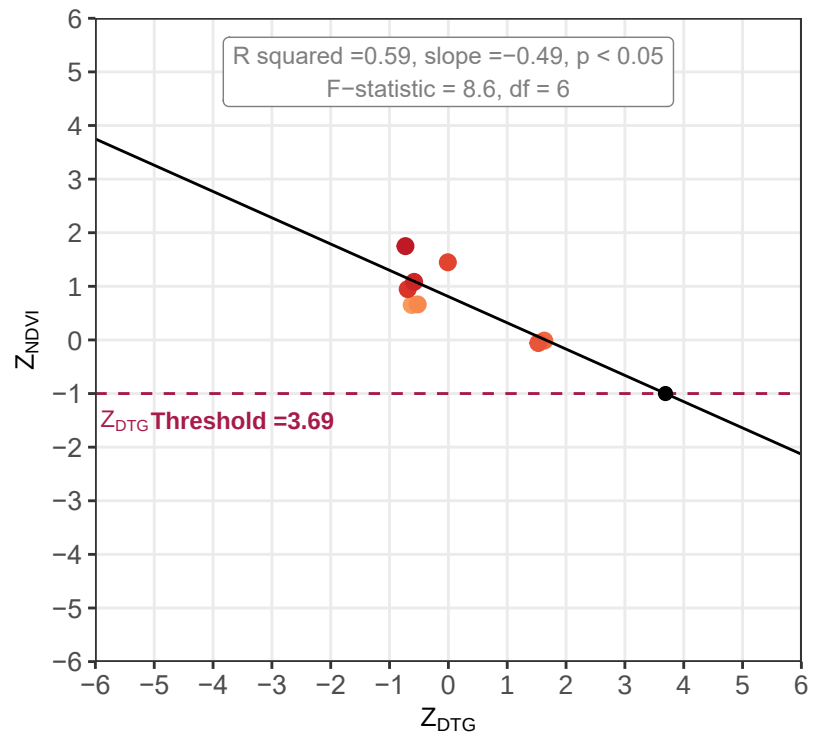
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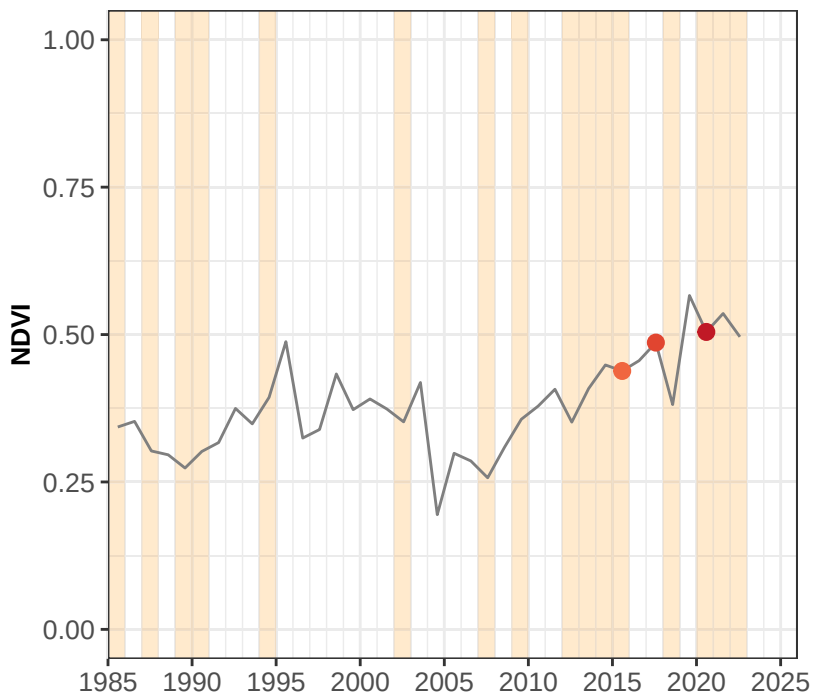


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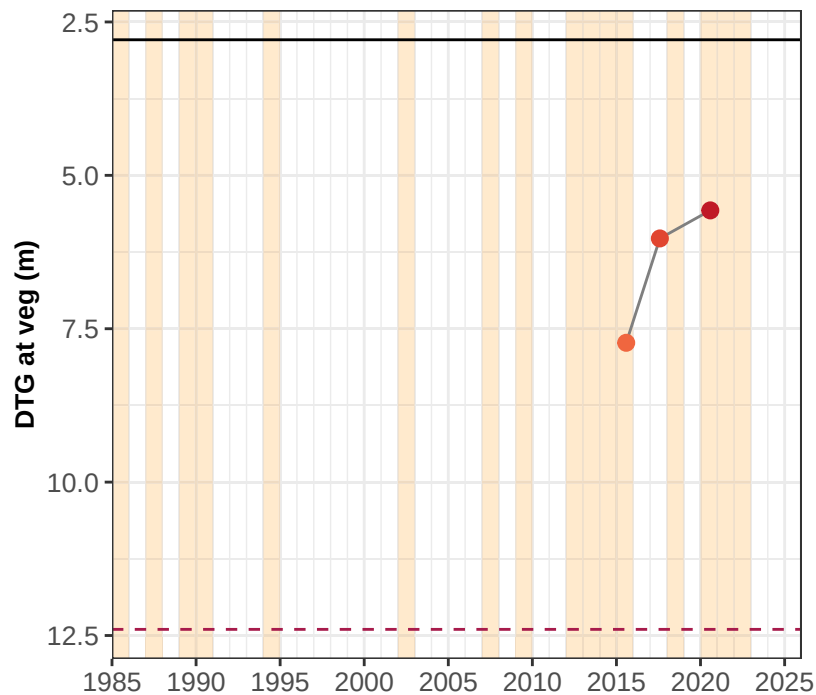


Populus (gdeID: 316517)

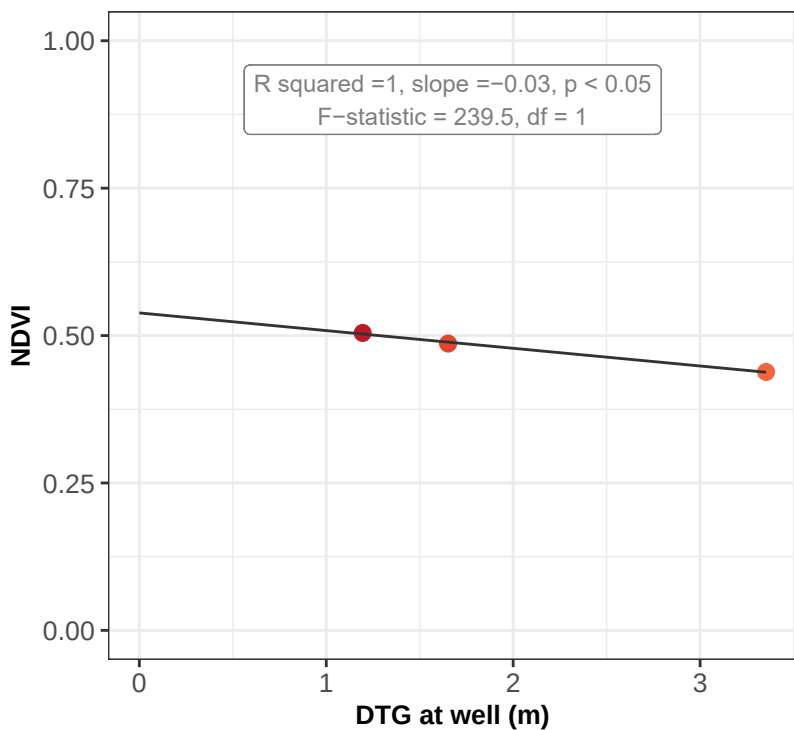
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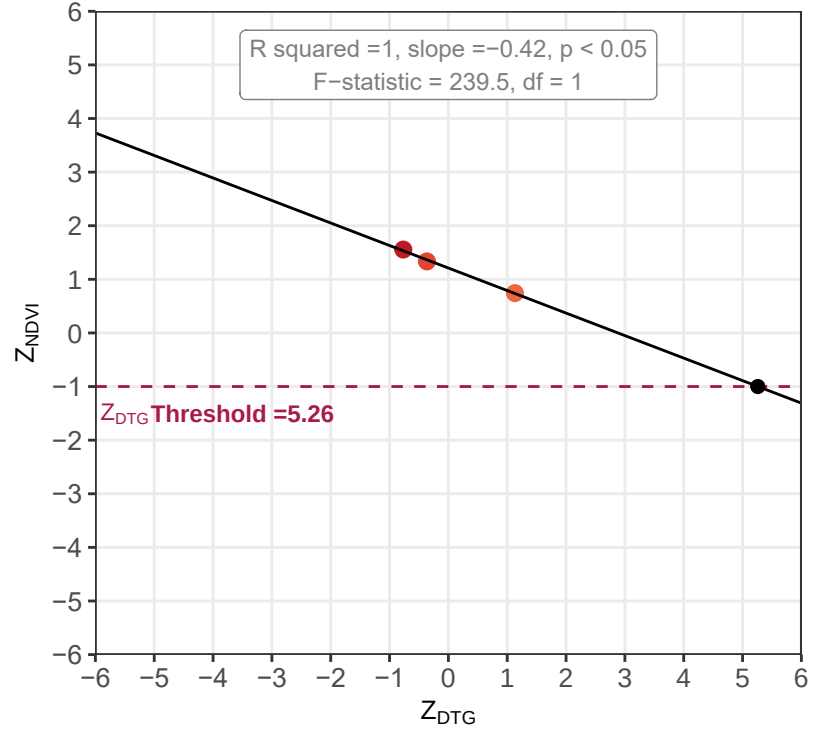
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c

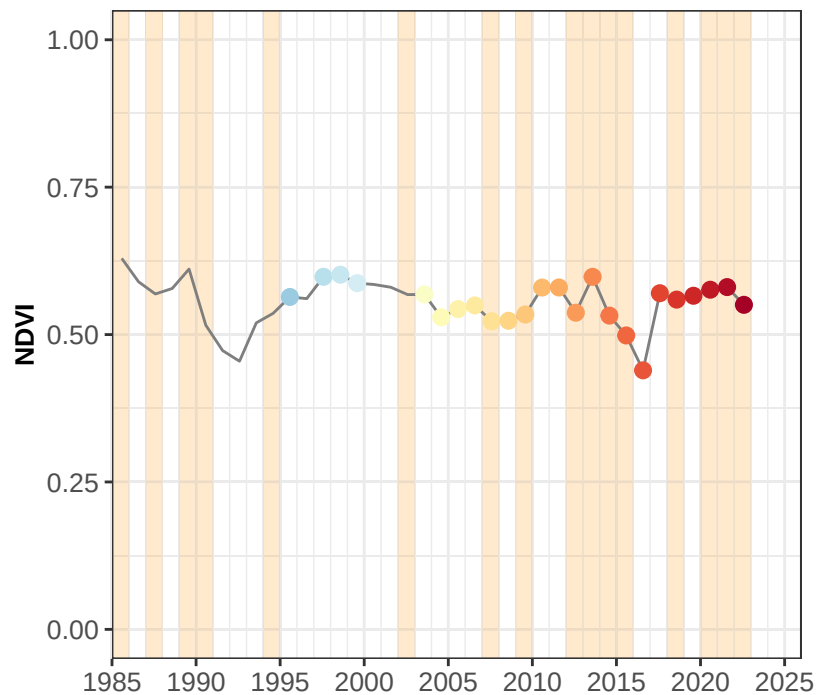


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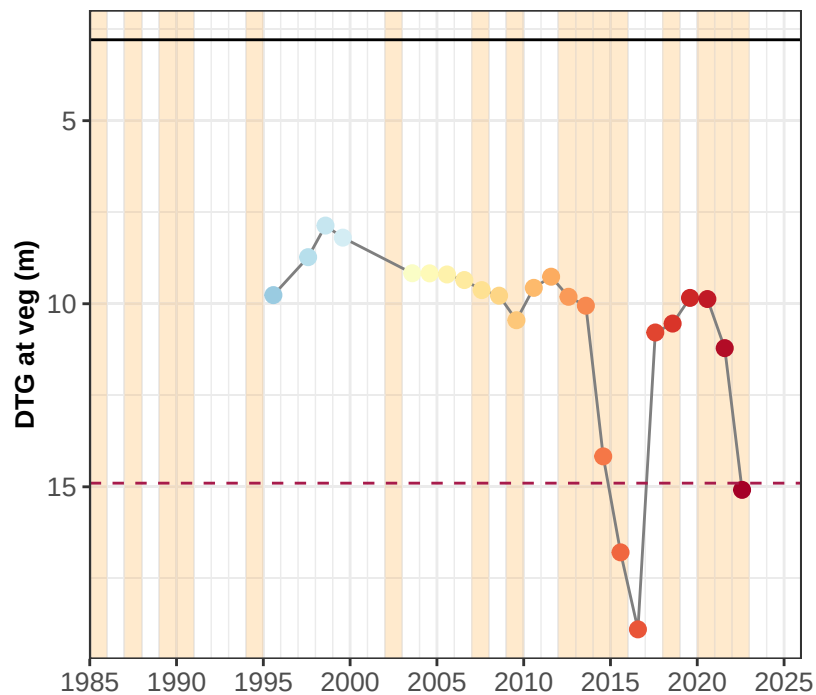


Populus (gdeID: 31971)

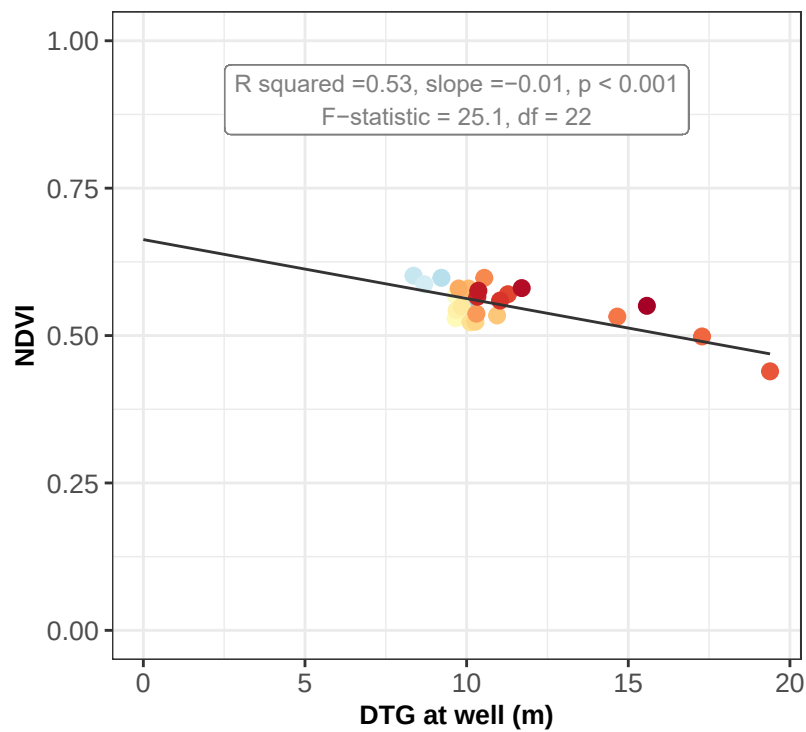
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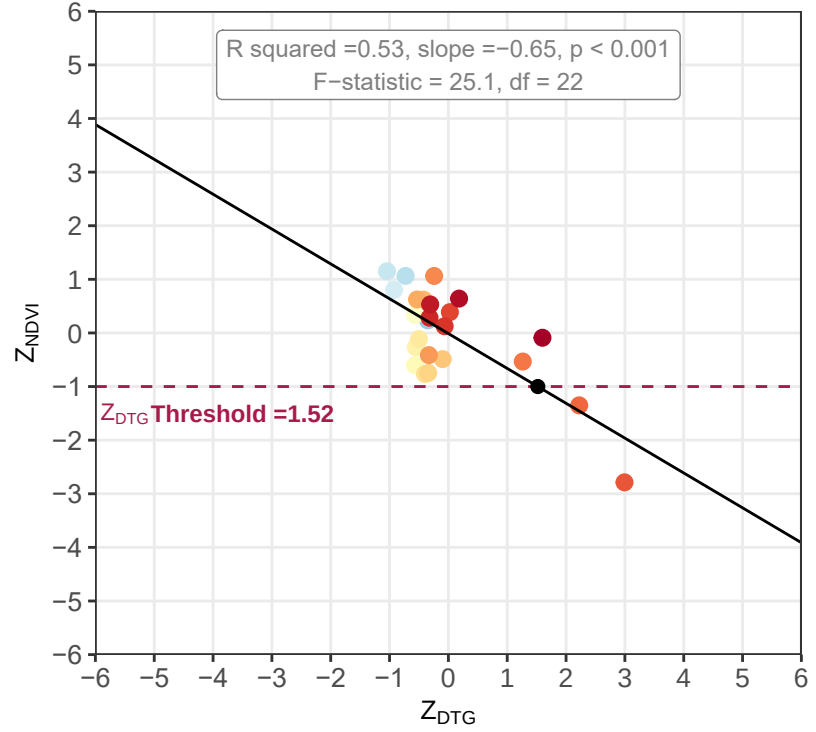
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c

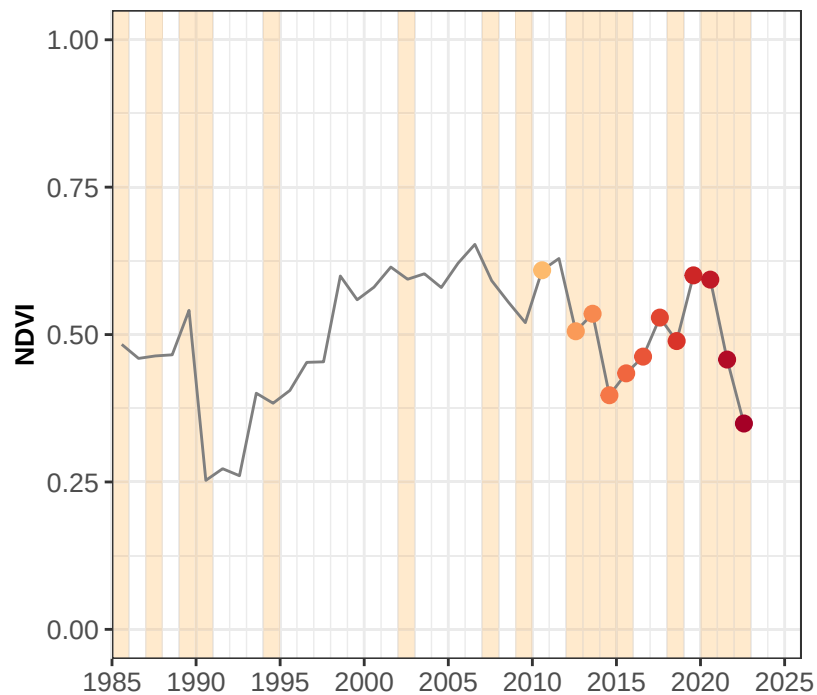


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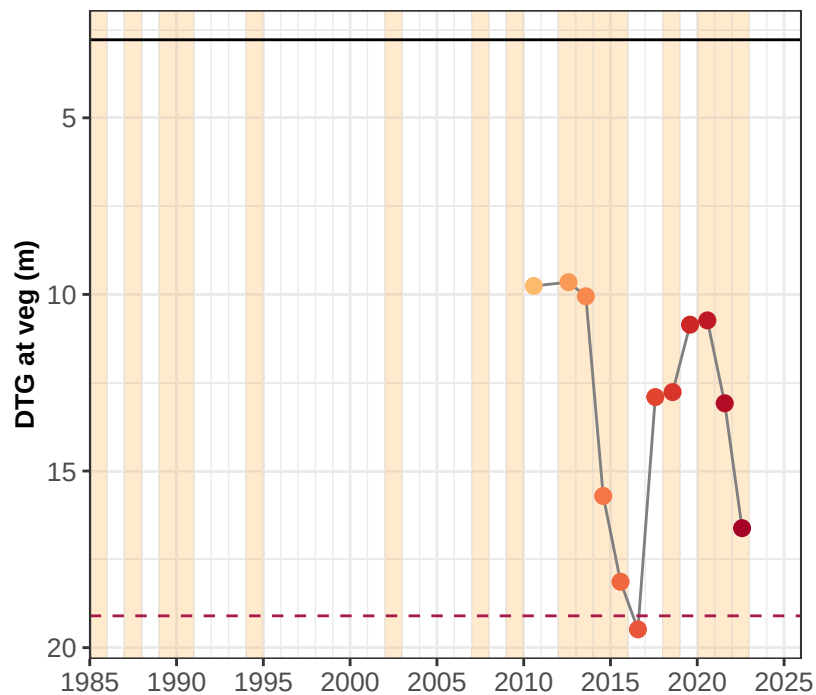


Populus (gdeID: 32012)

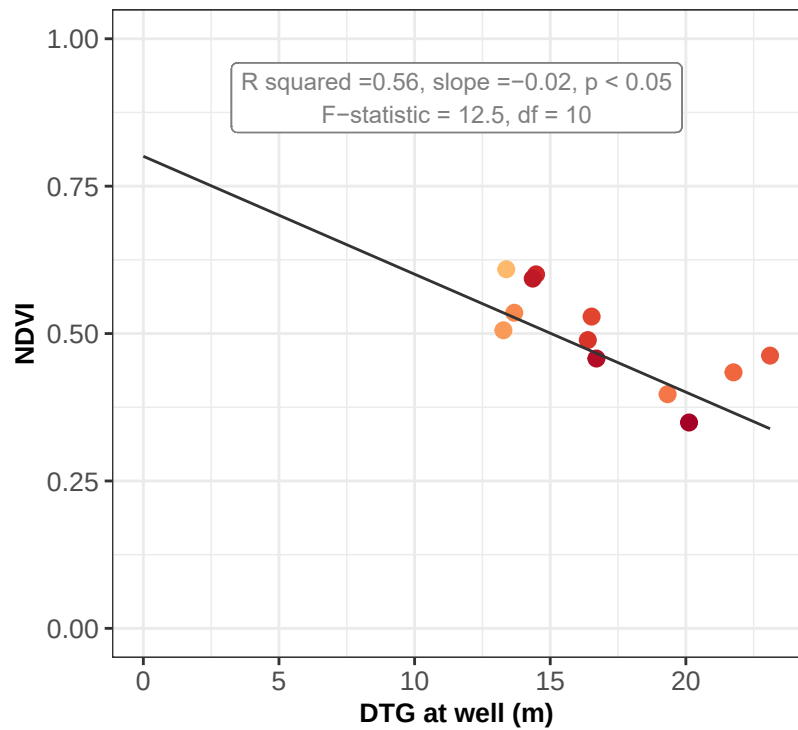
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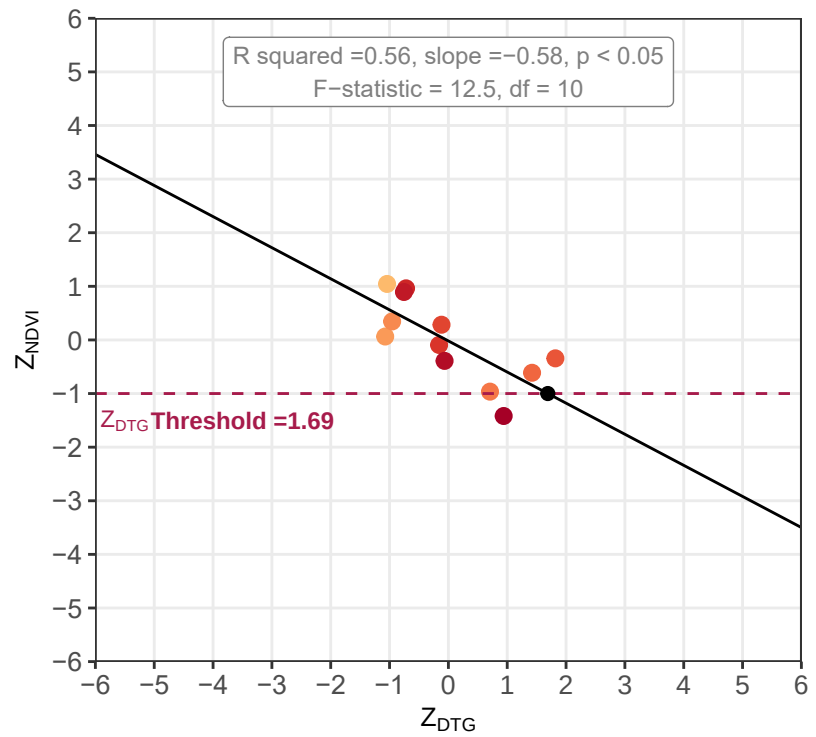
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c

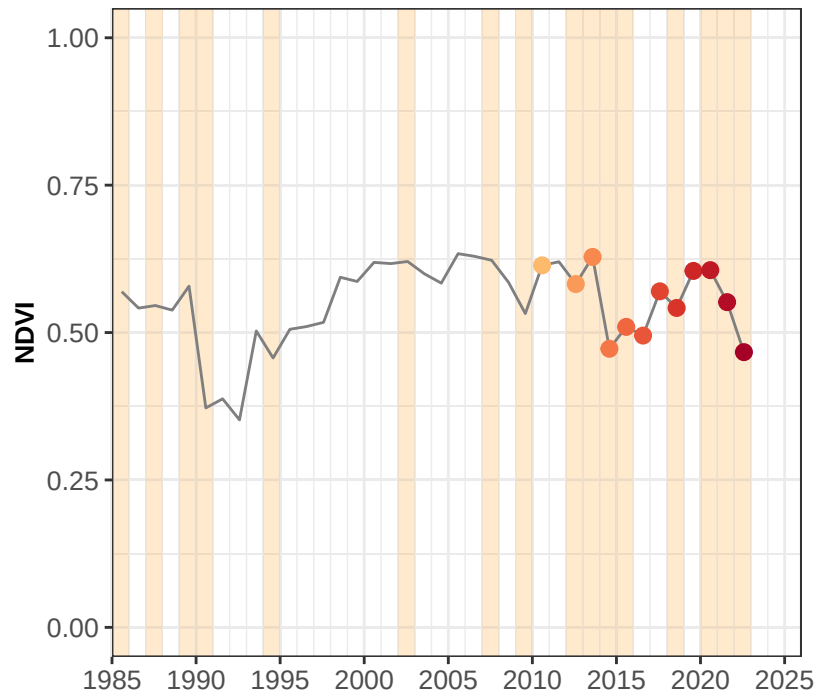


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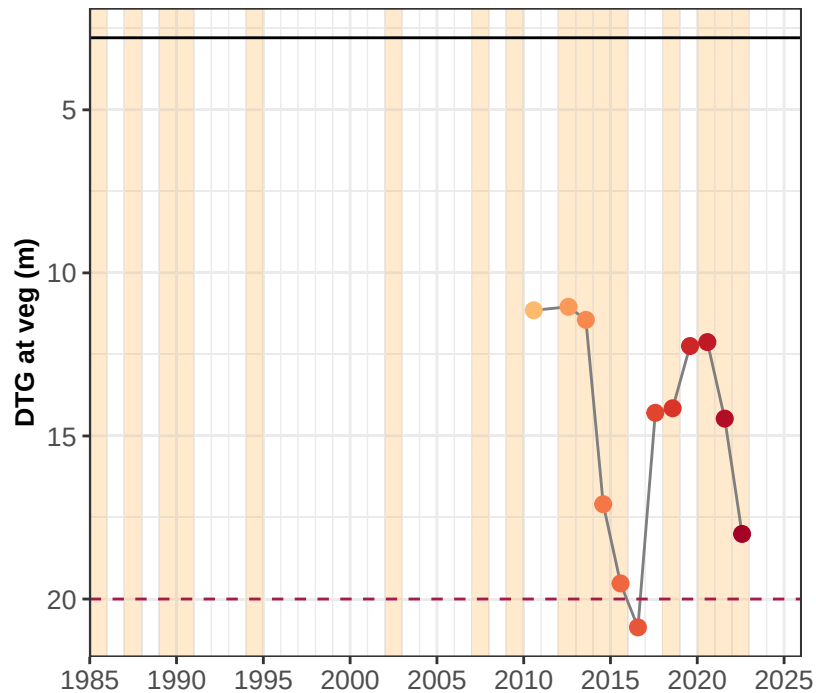


Populus (gdeID: 32016)

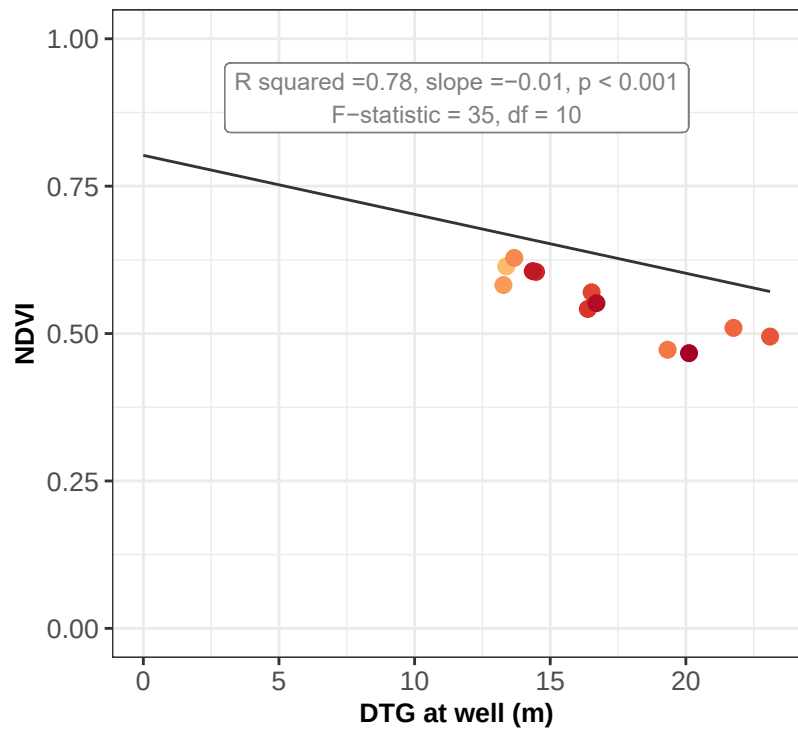
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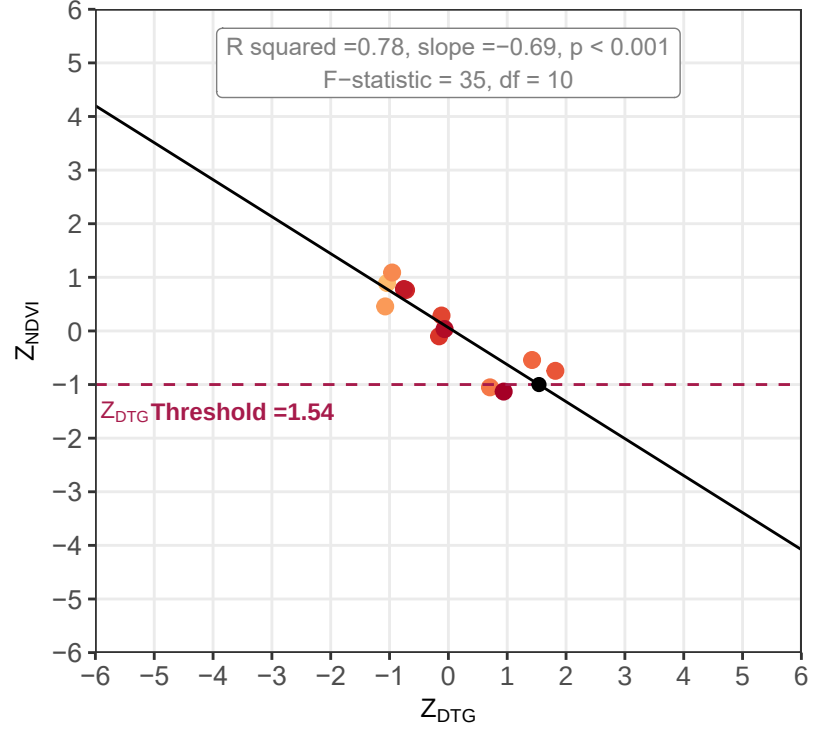
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c

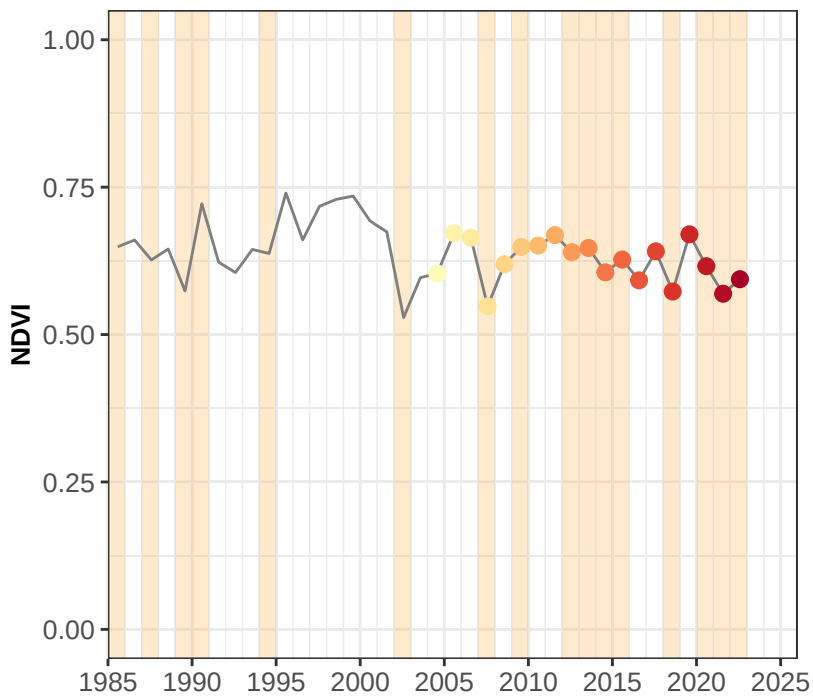


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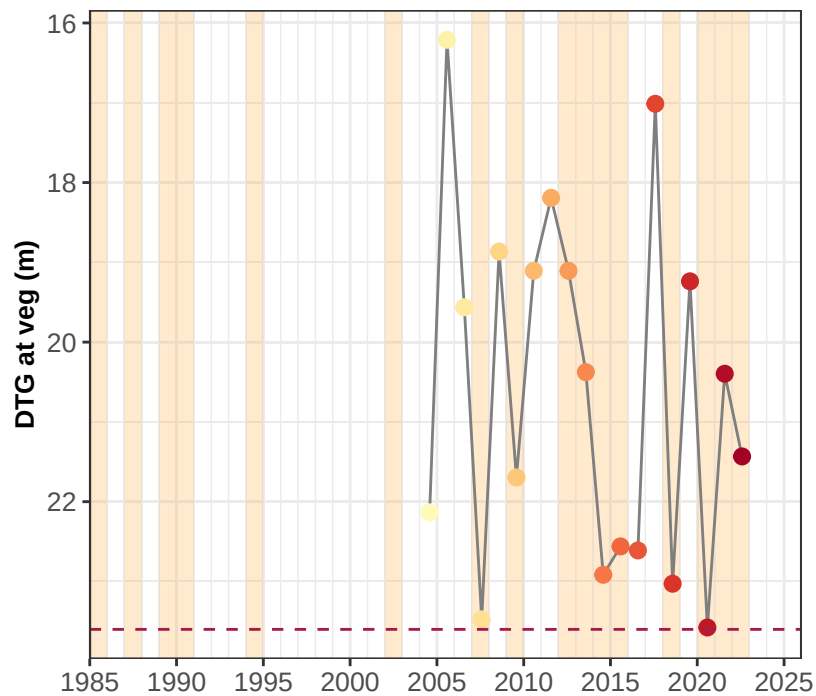


(gdeID: 320290)

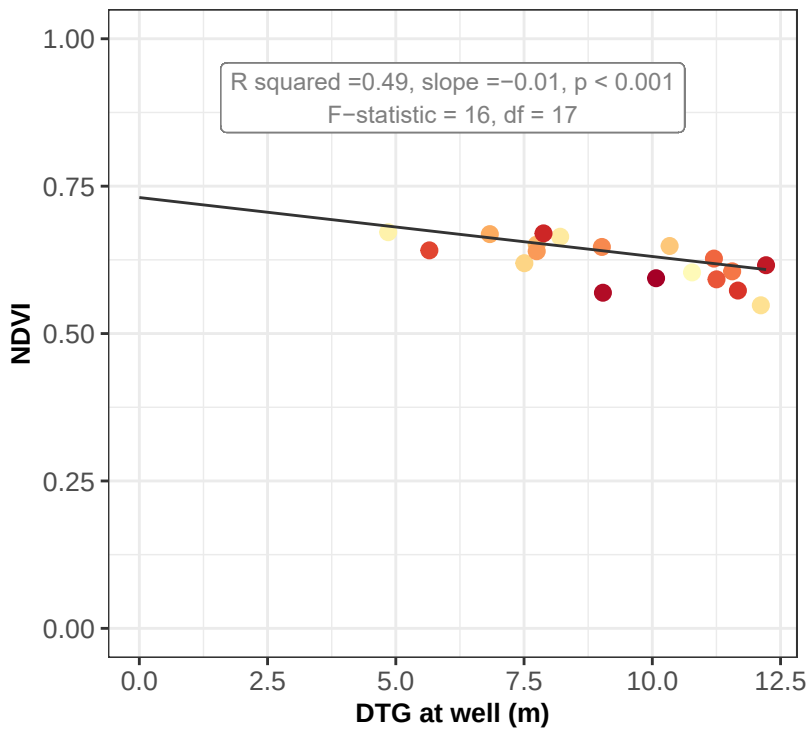
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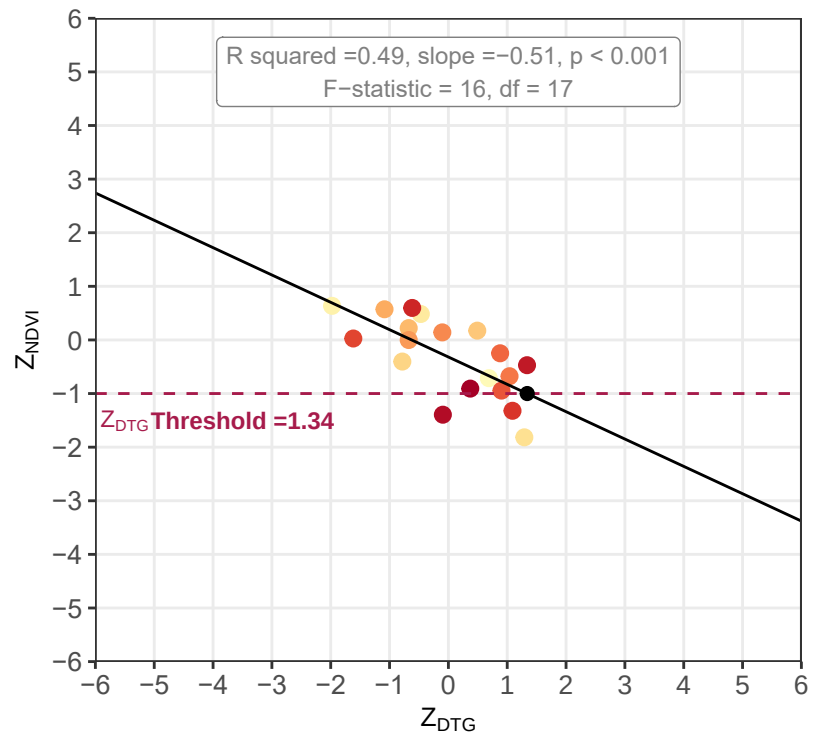
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c

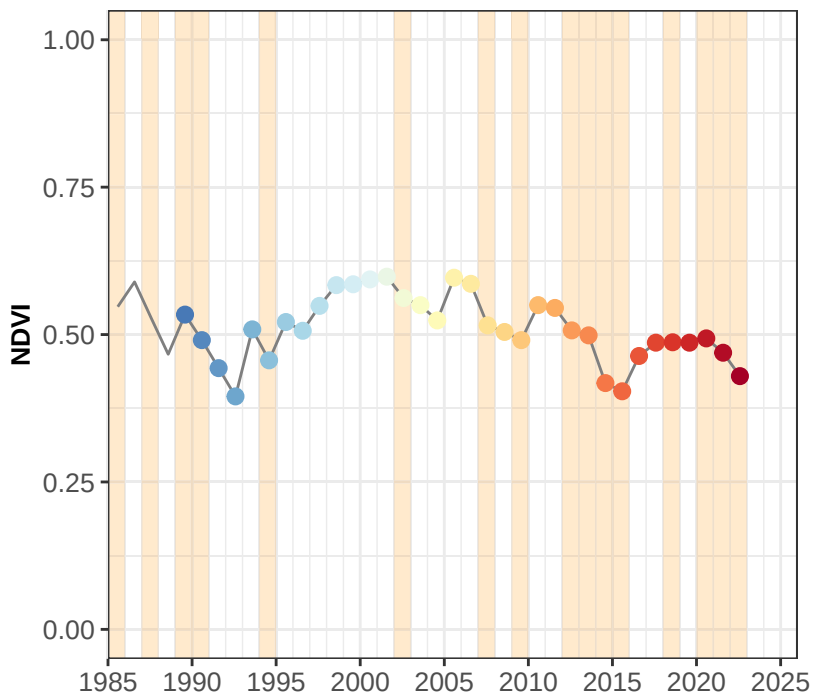


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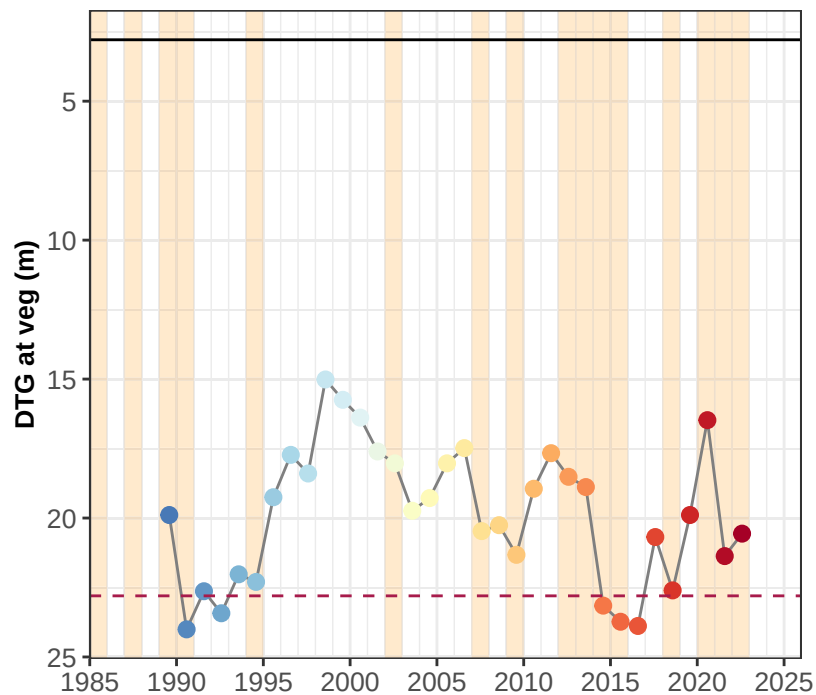


Populus (gdeID: 32080)

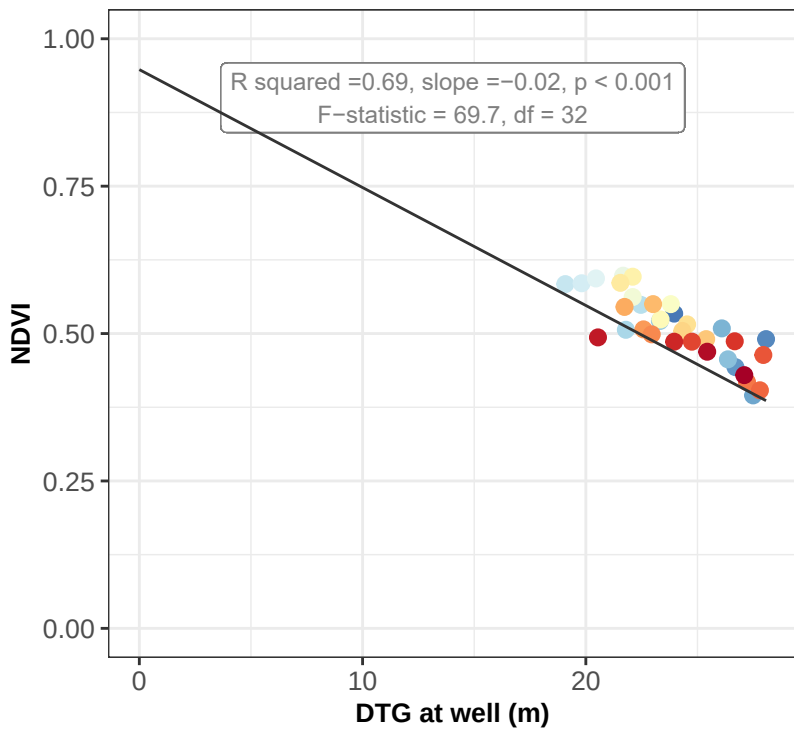
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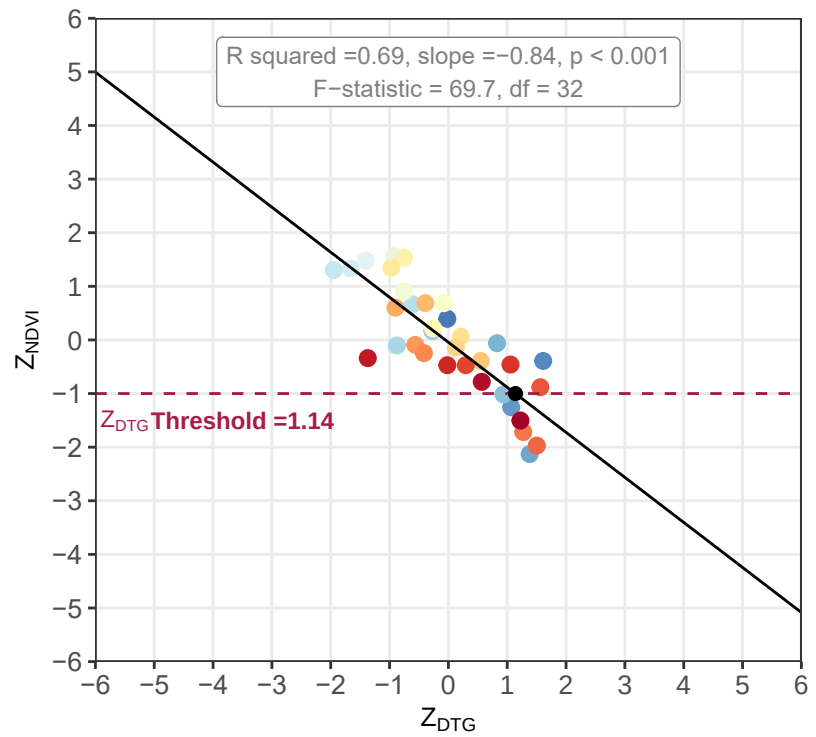
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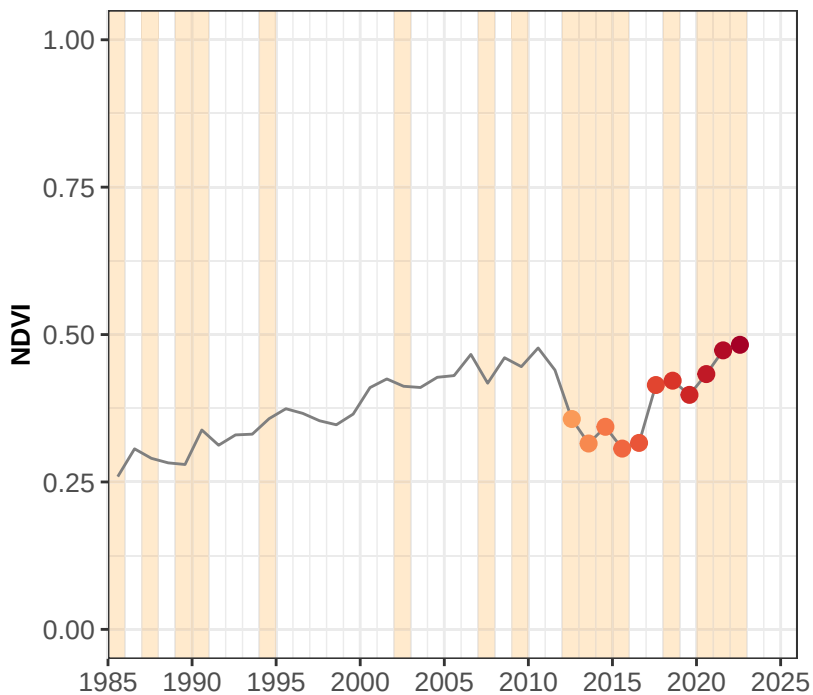


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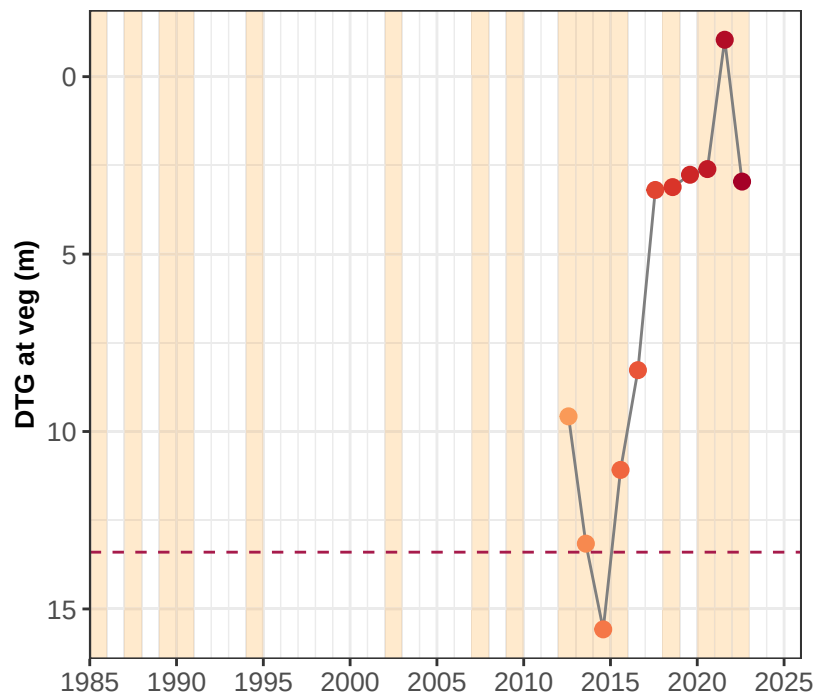


(gdeID: 321929)

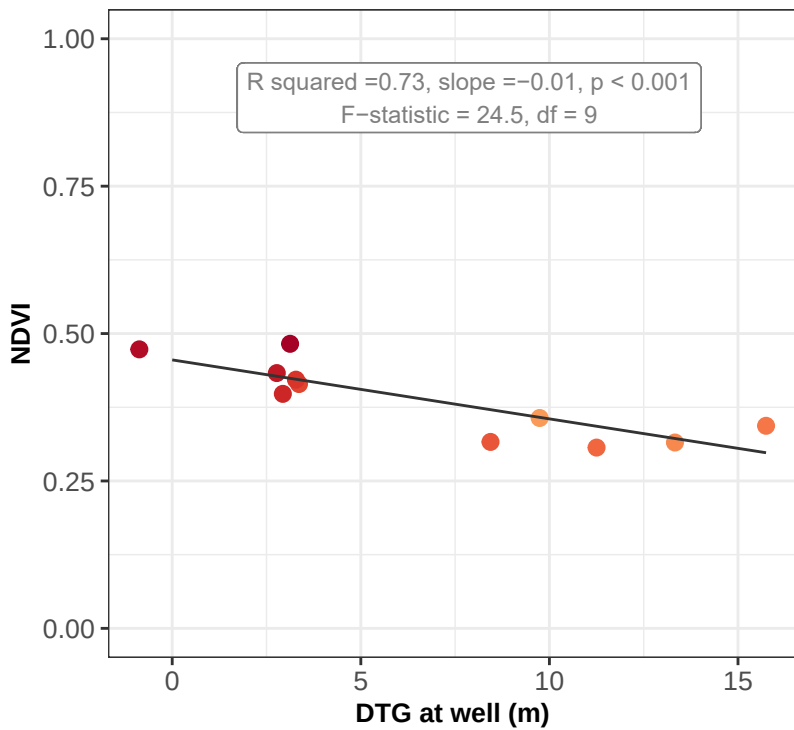
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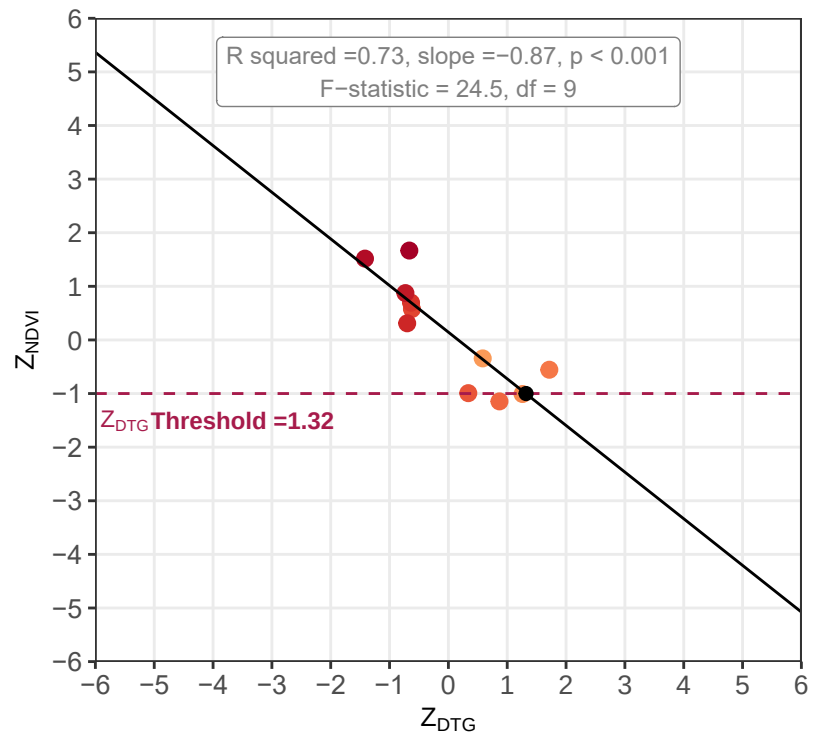
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c

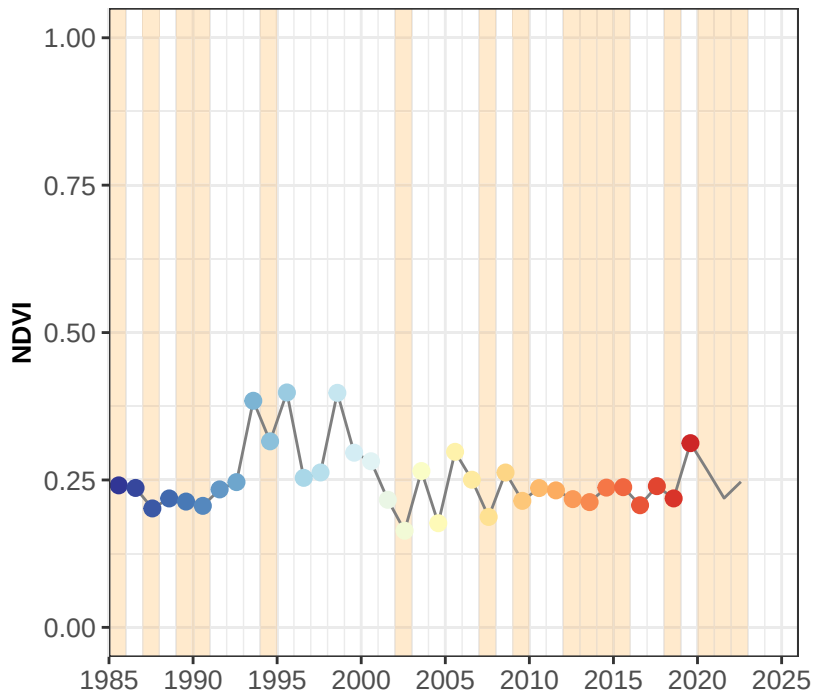


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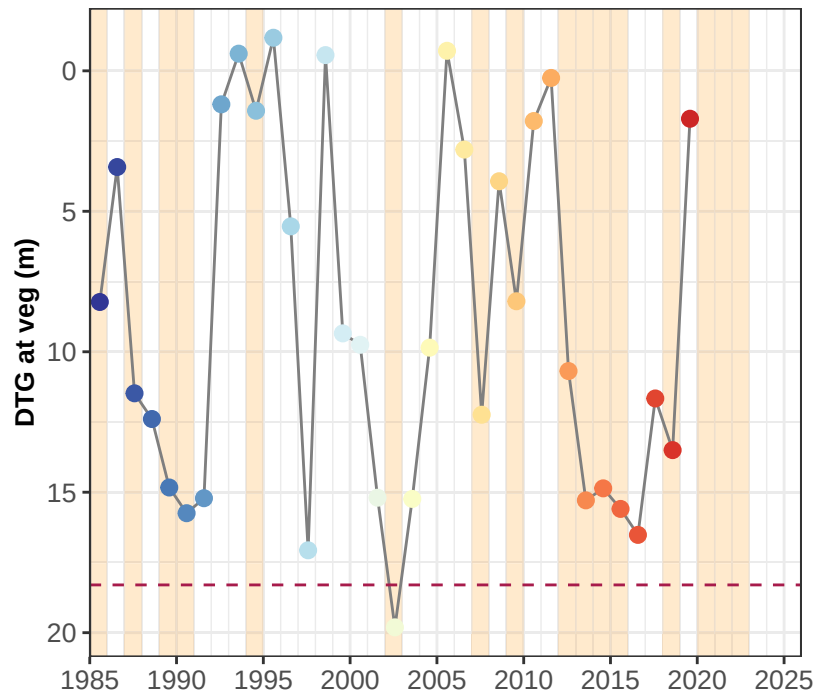


(gdeID: 324548)

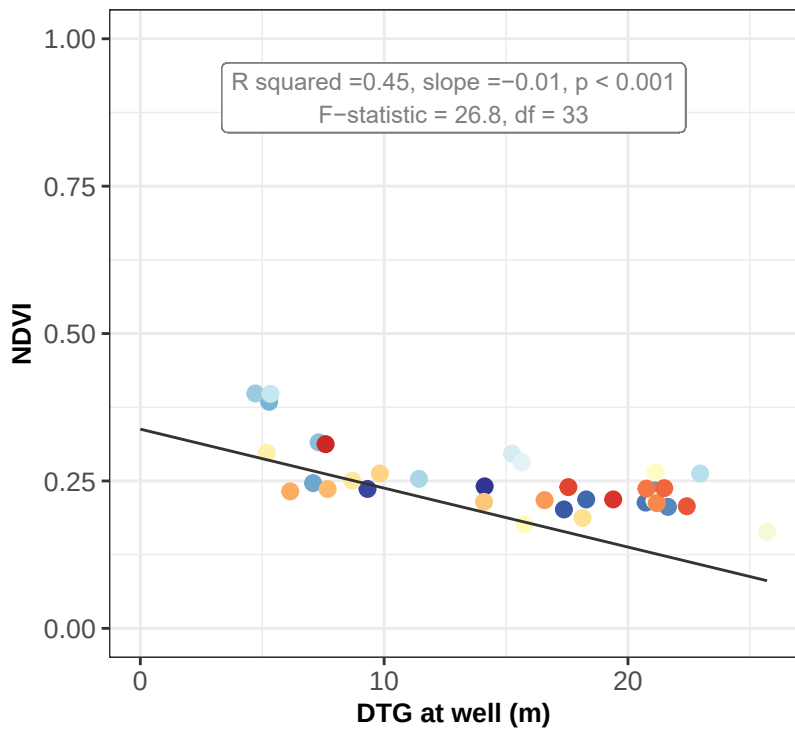
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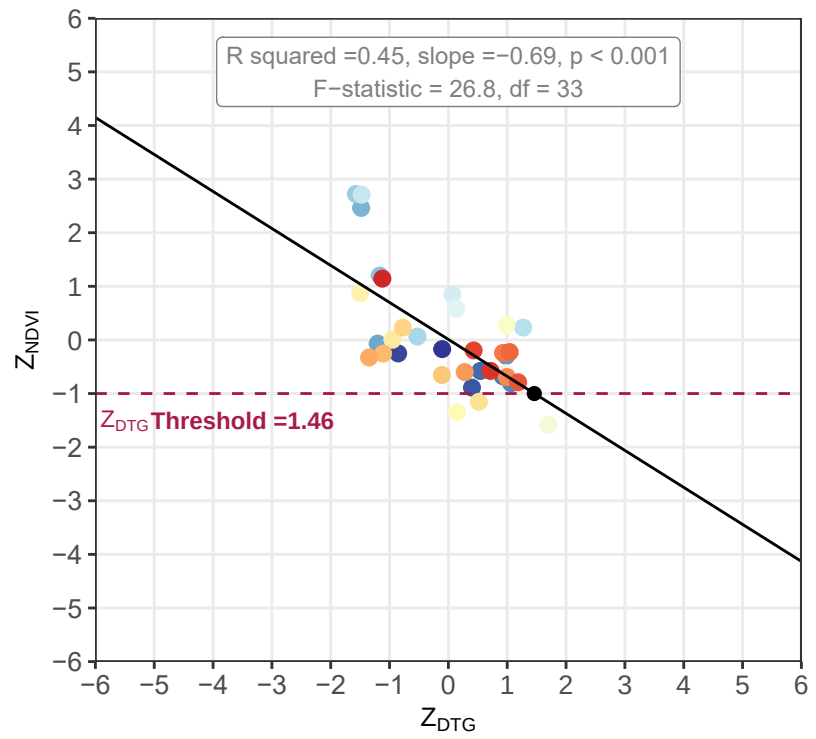
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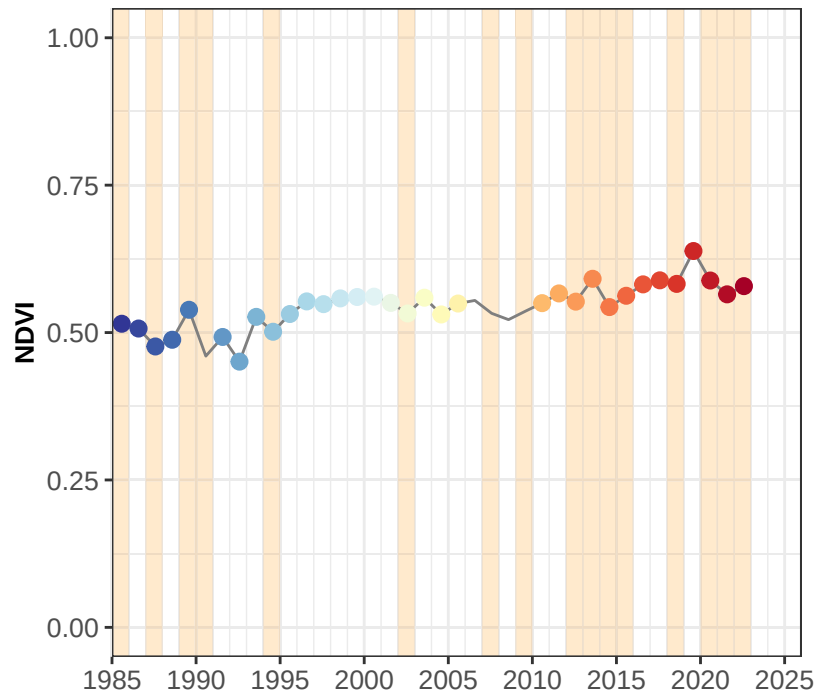


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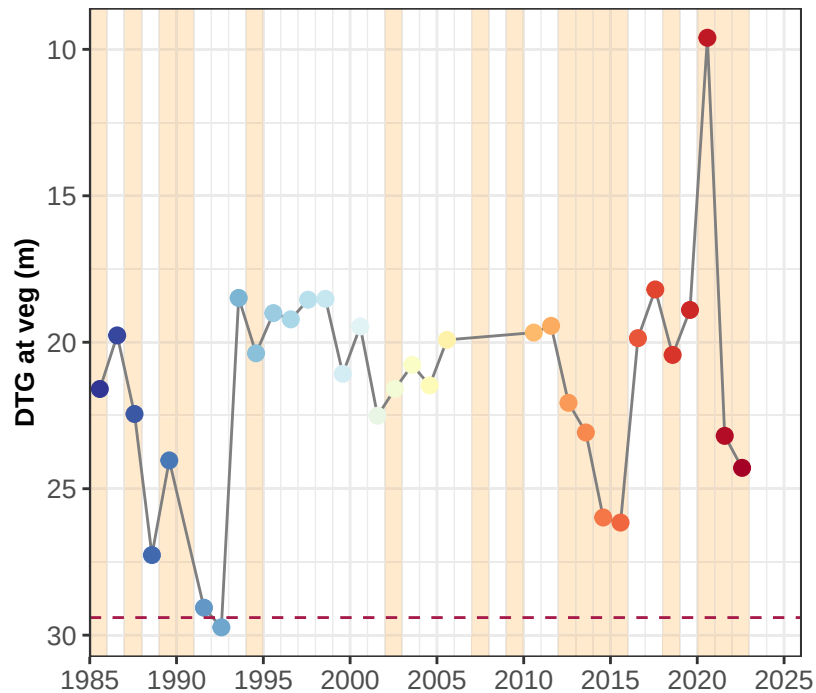


(gdeID: 32705)

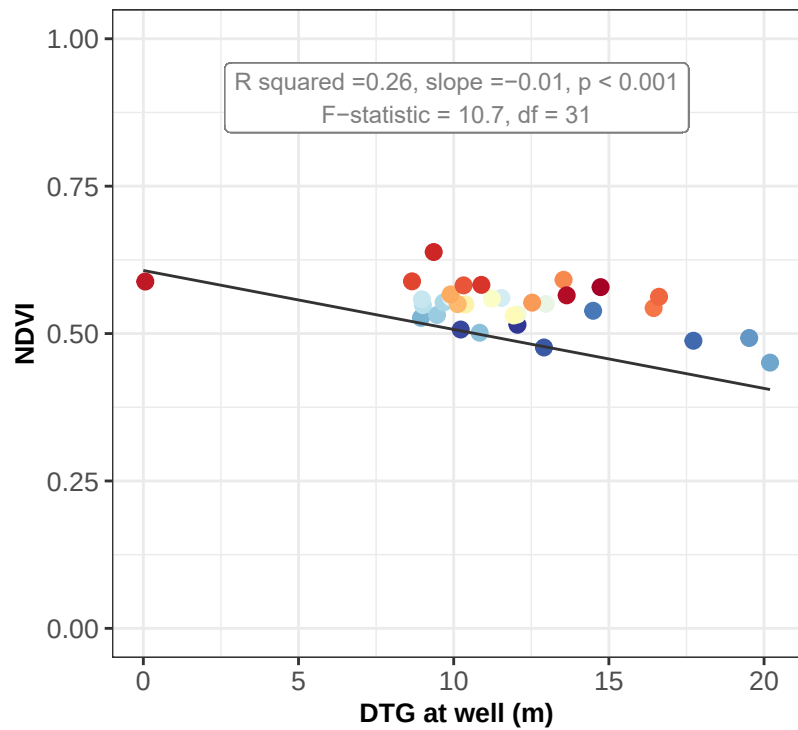
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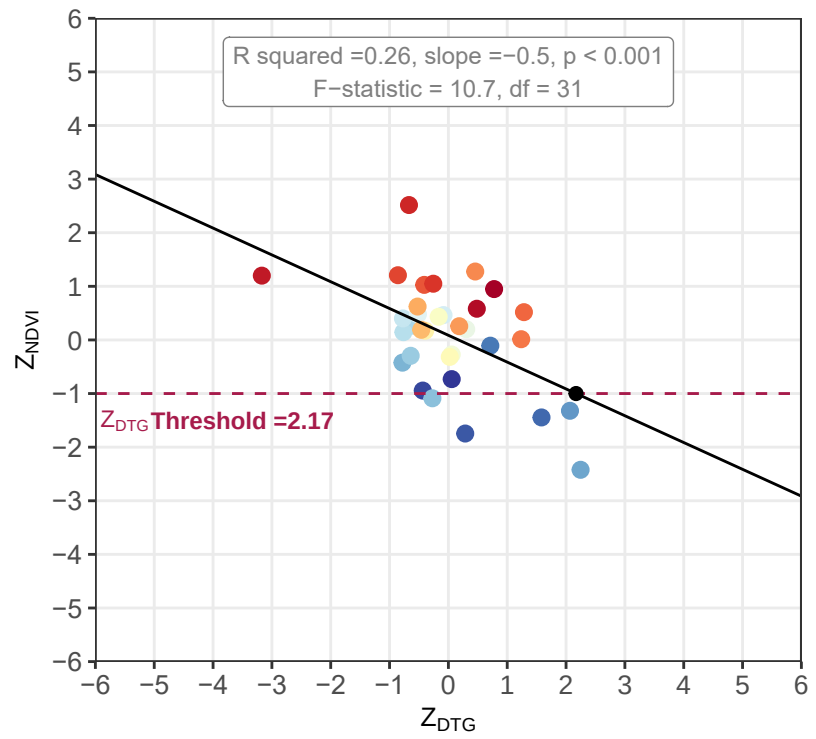
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c

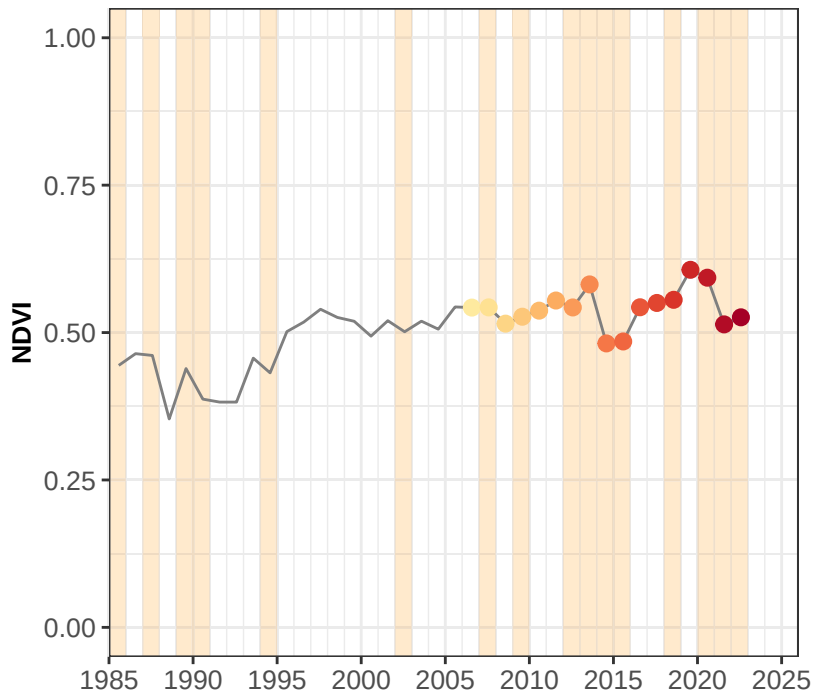


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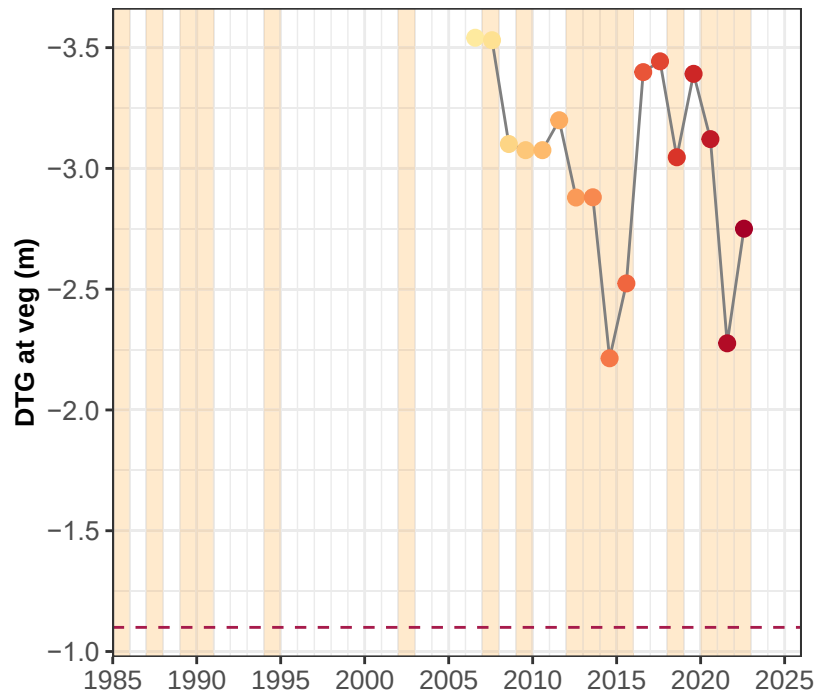


(gdeID: 32709)

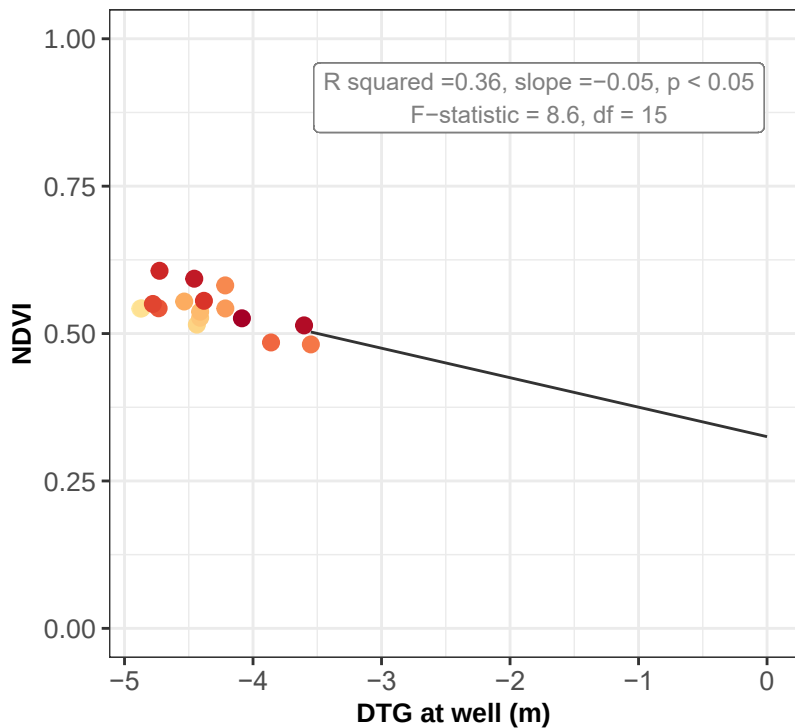
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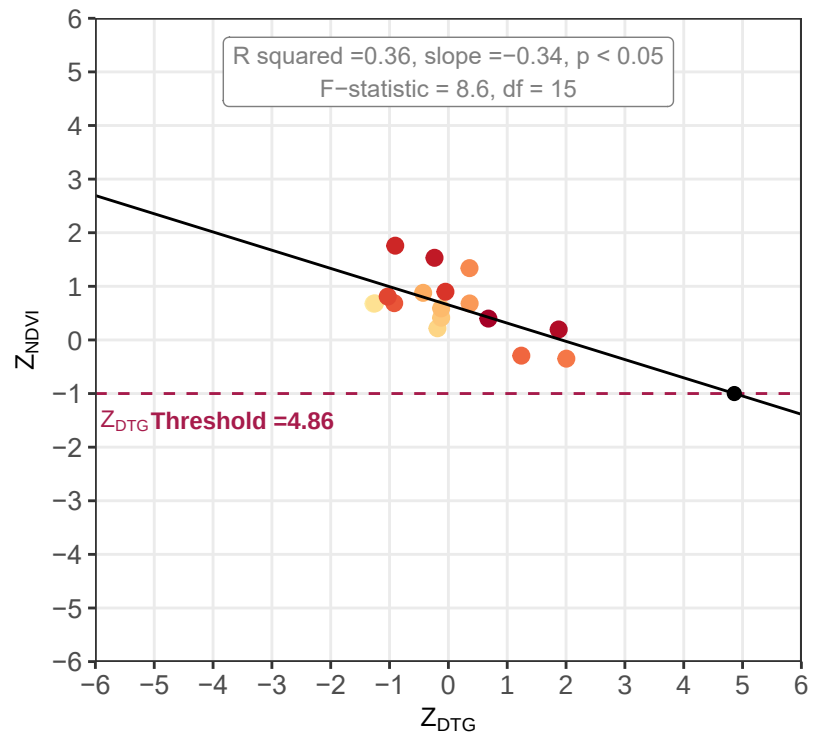
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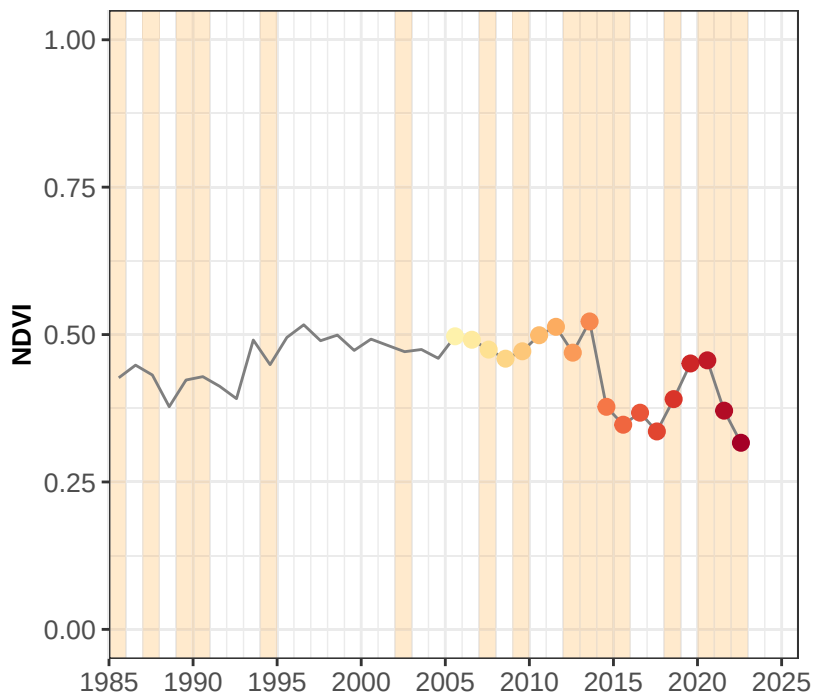


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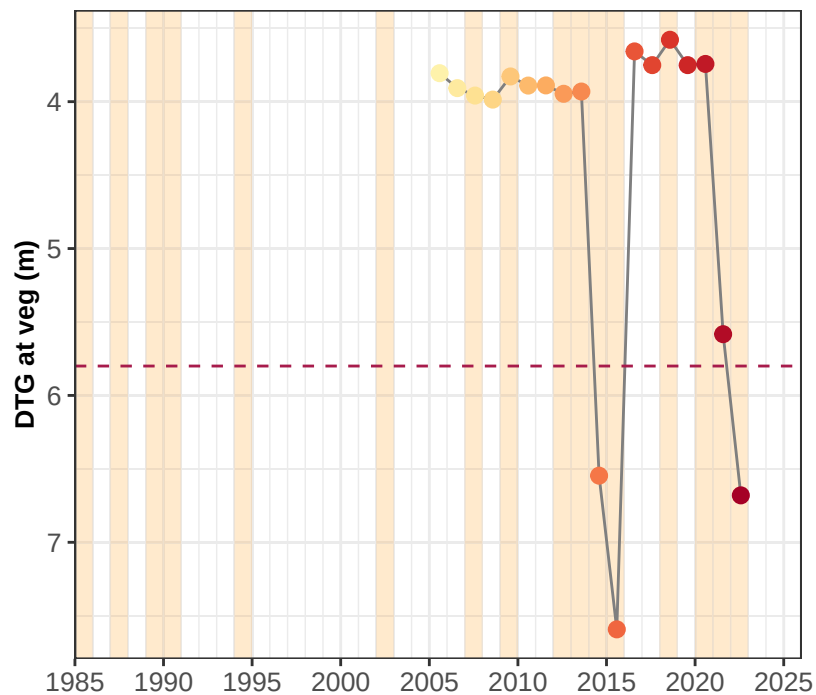


(gdeID: 32713)

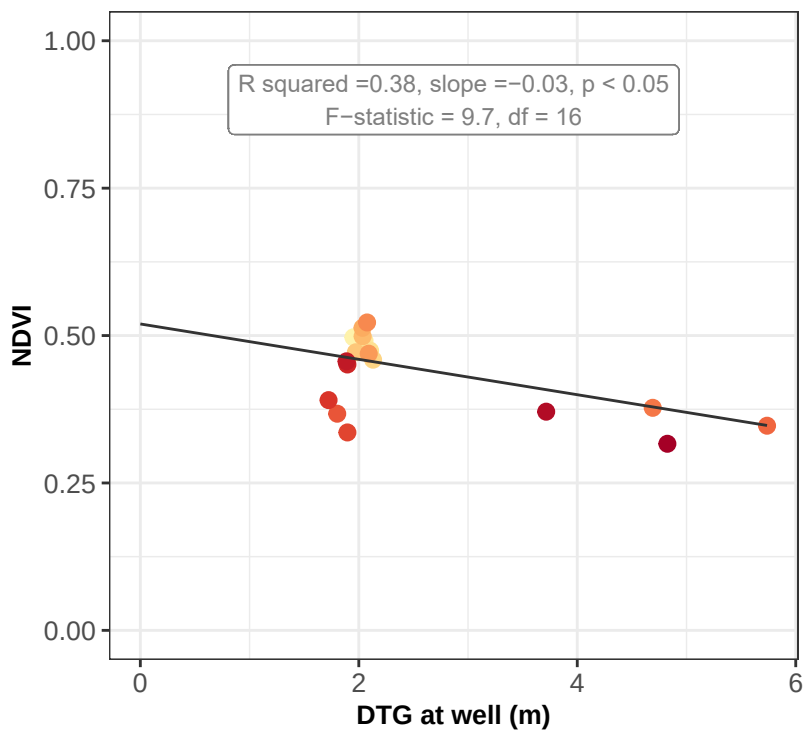
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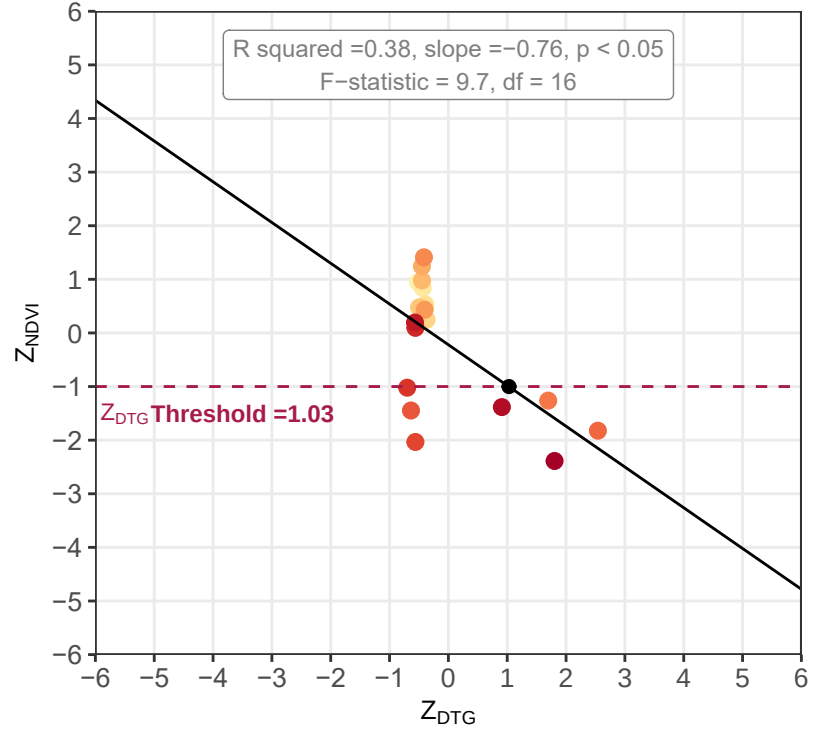
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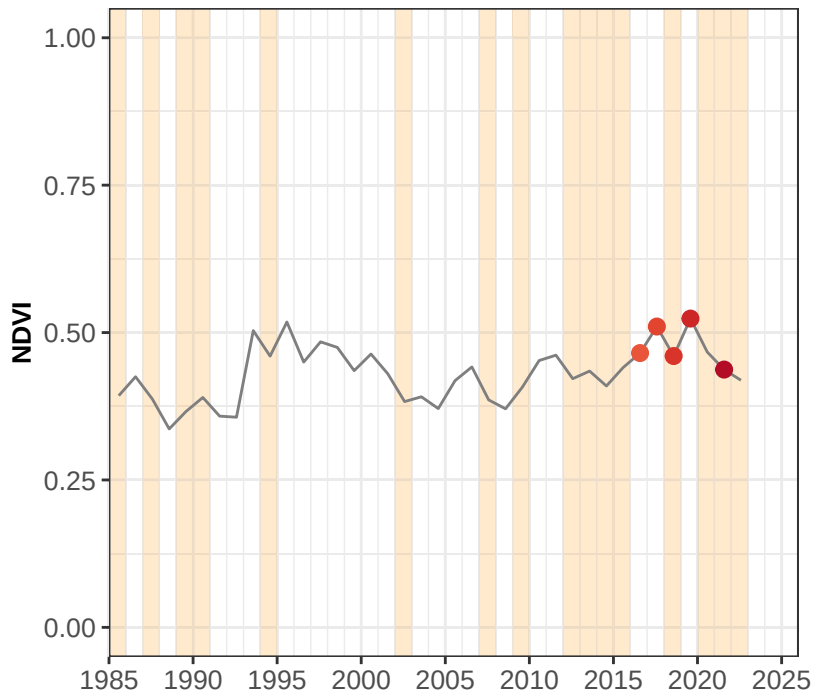


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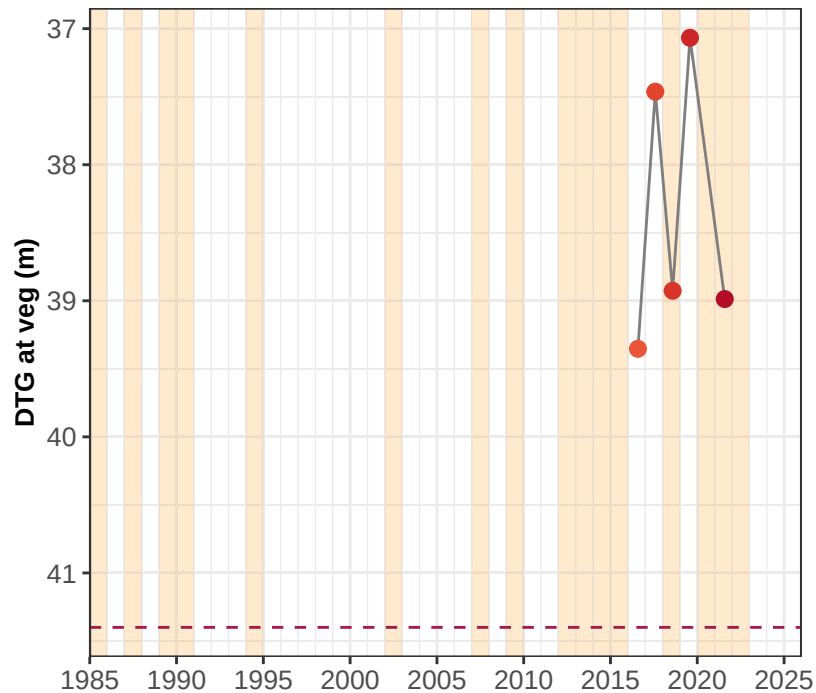


(gdeID: 32799)

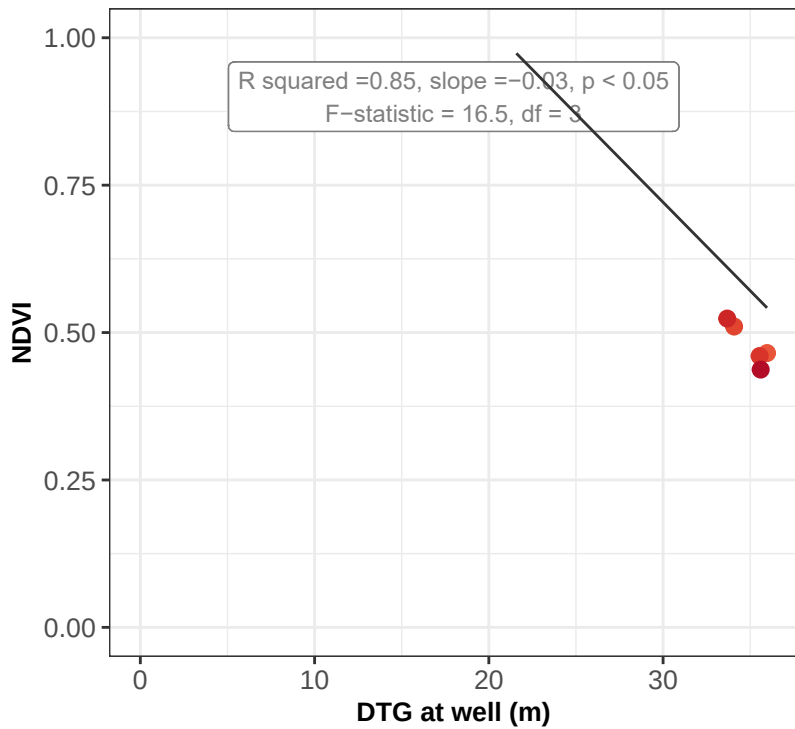
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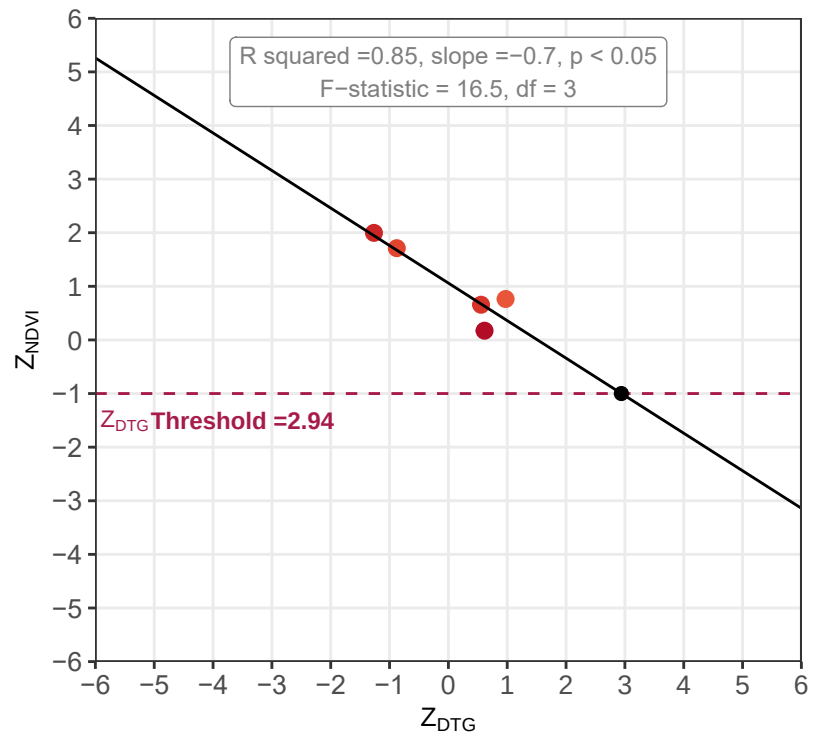
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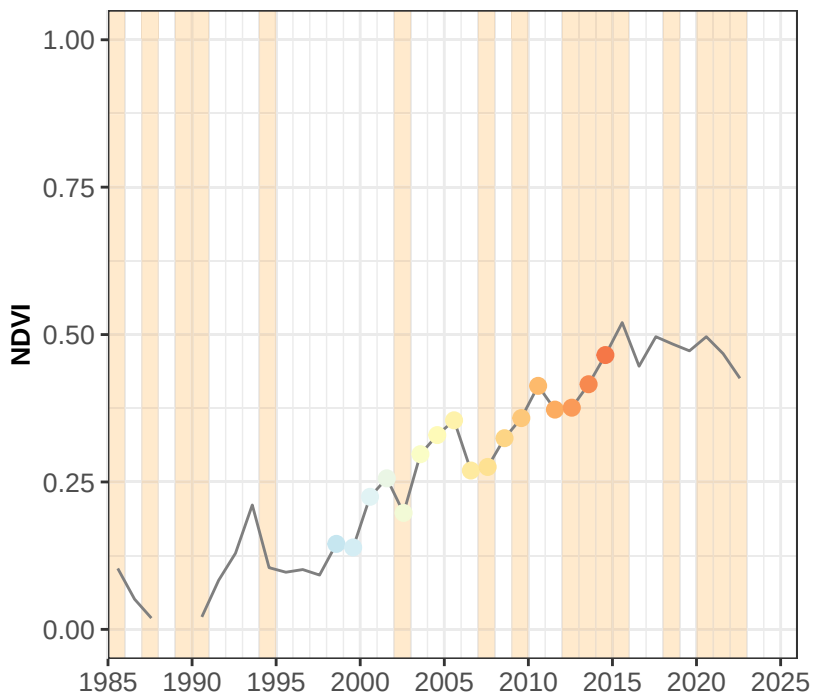


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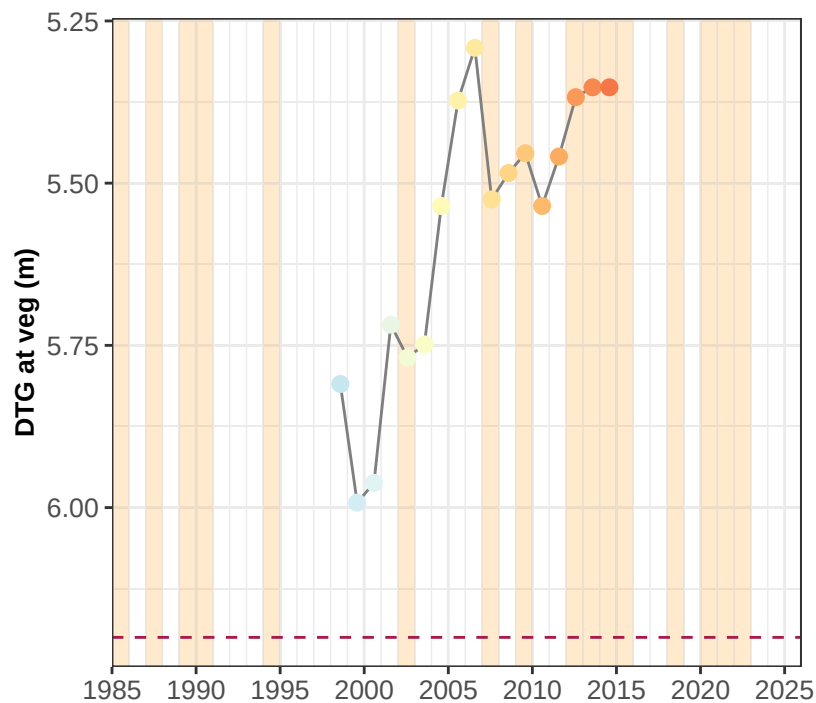


Typha (gdeID: 3282)

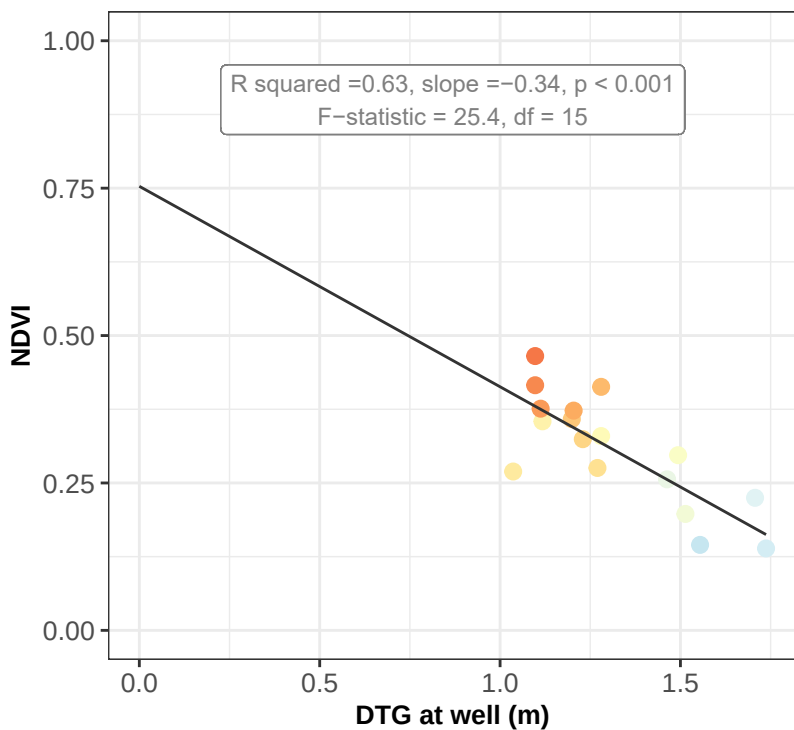
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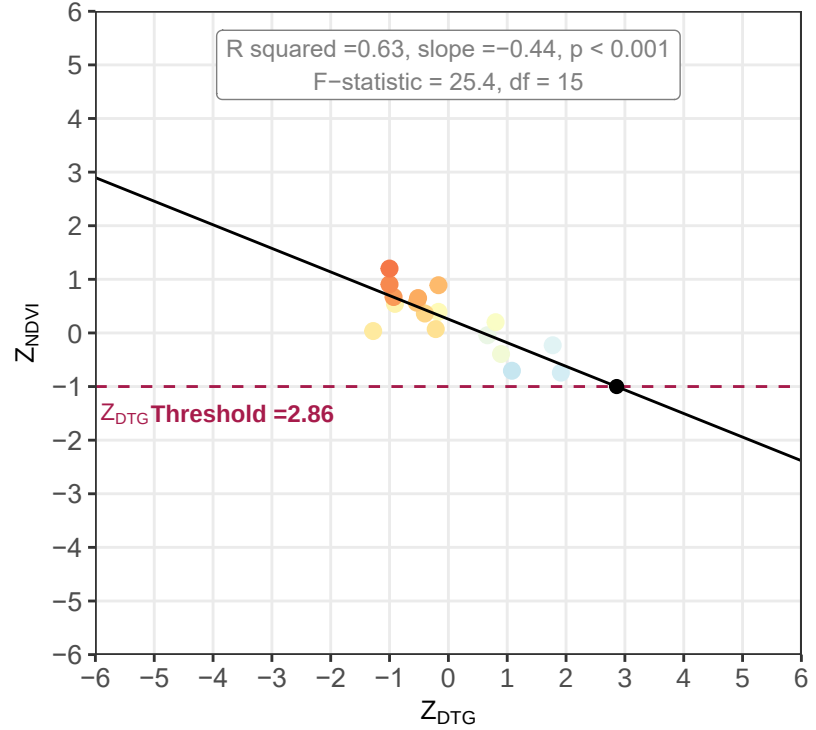
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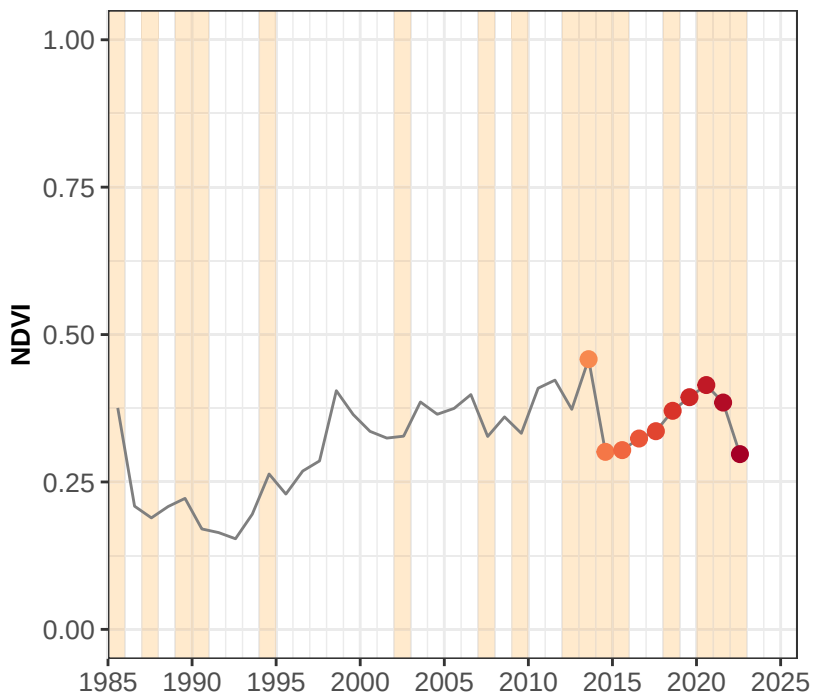


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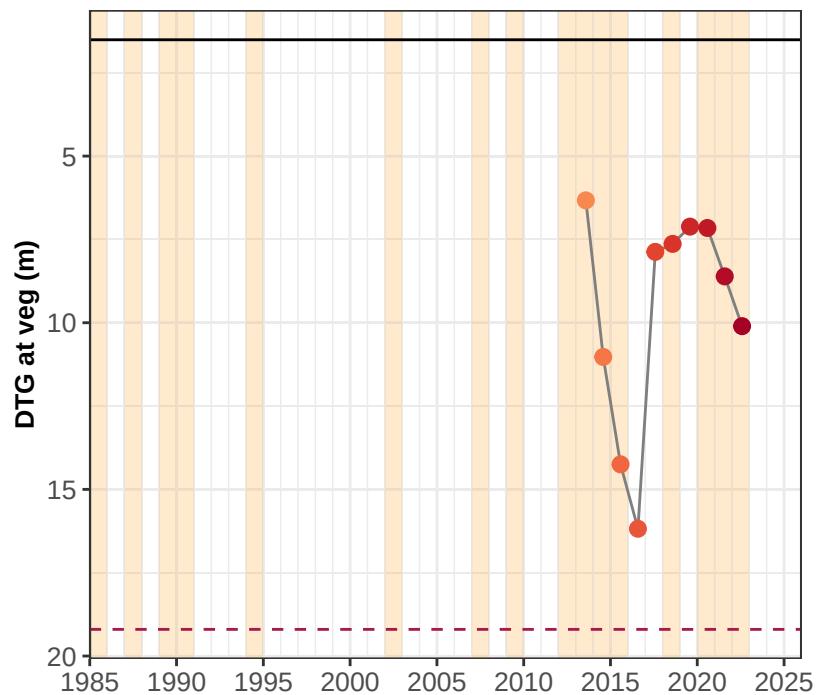


Salix (gdeID: 33372)

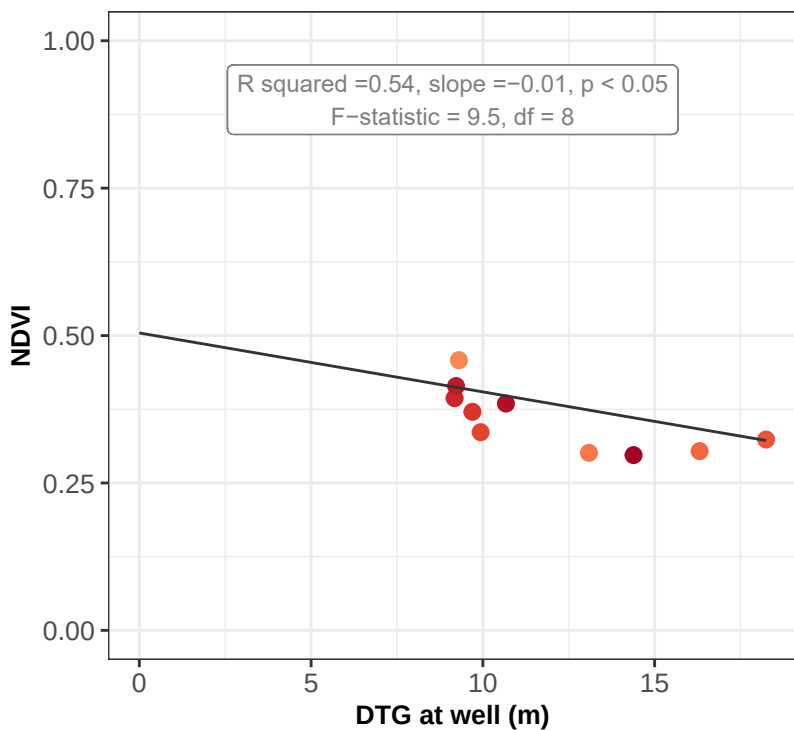
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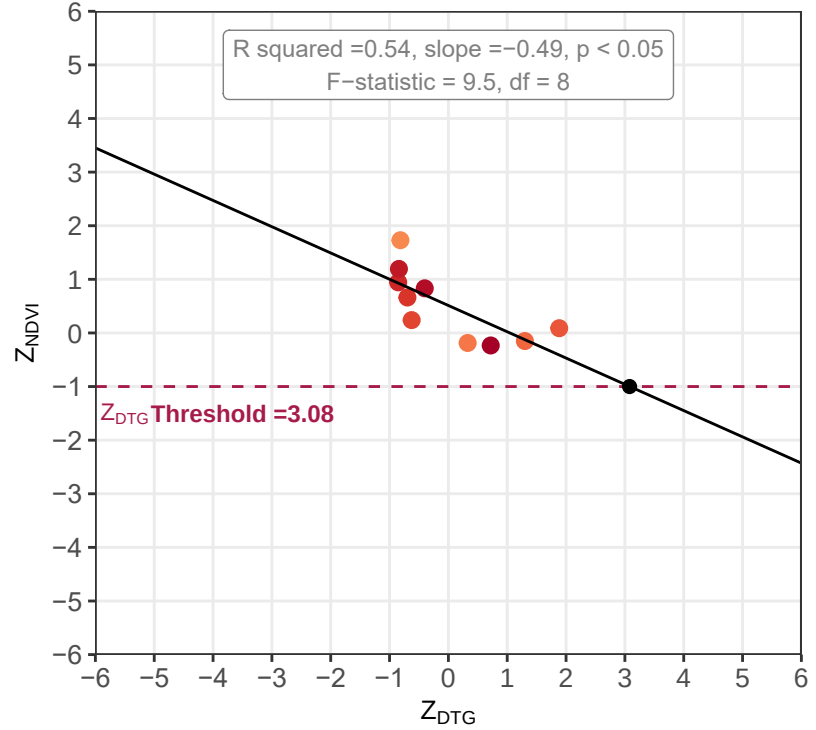
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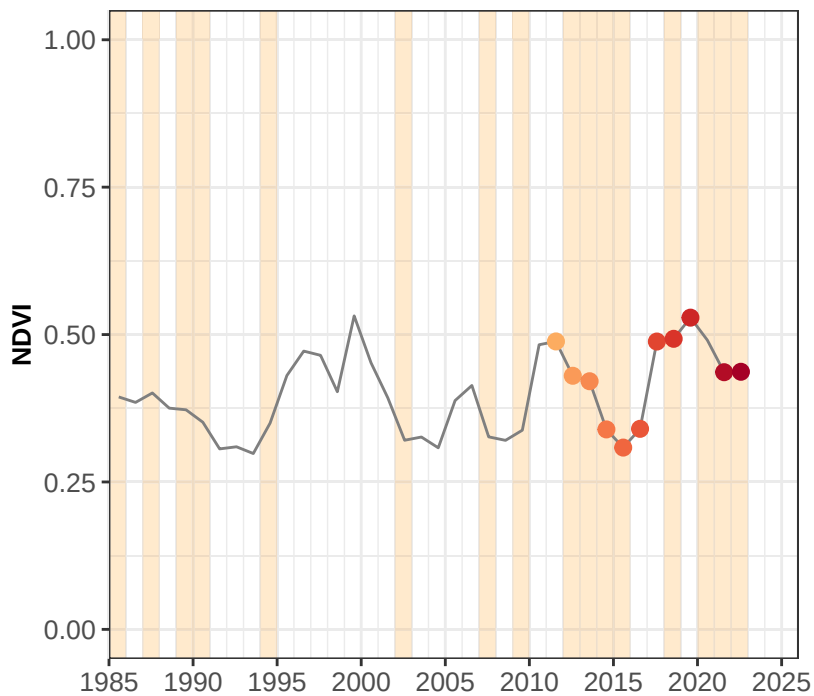


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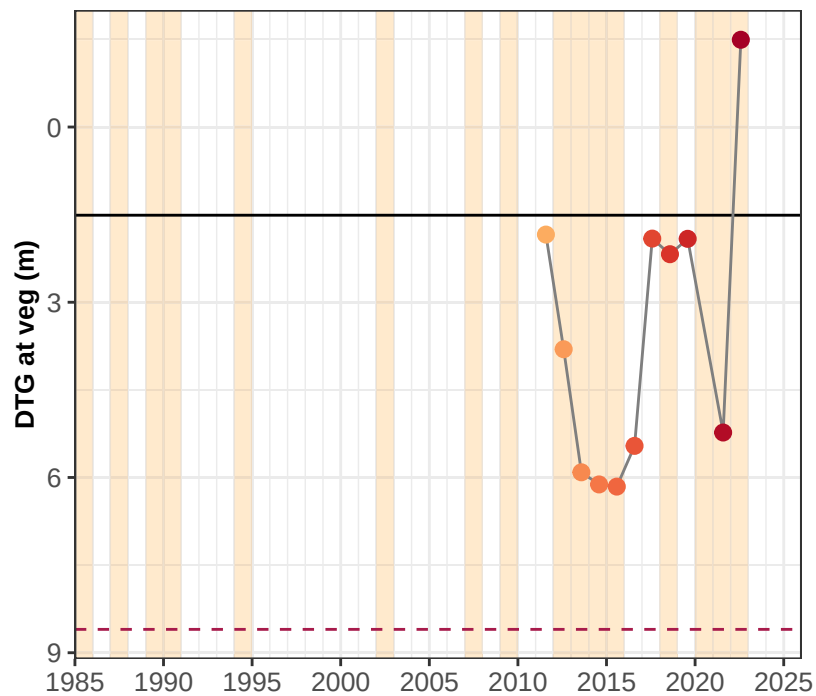


Salix (gdeID: 33807)

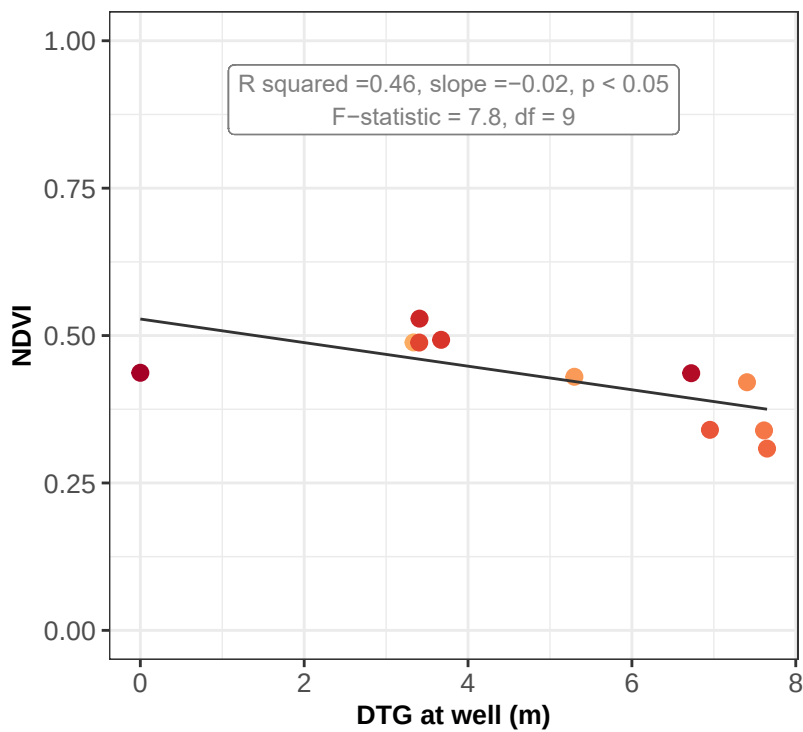
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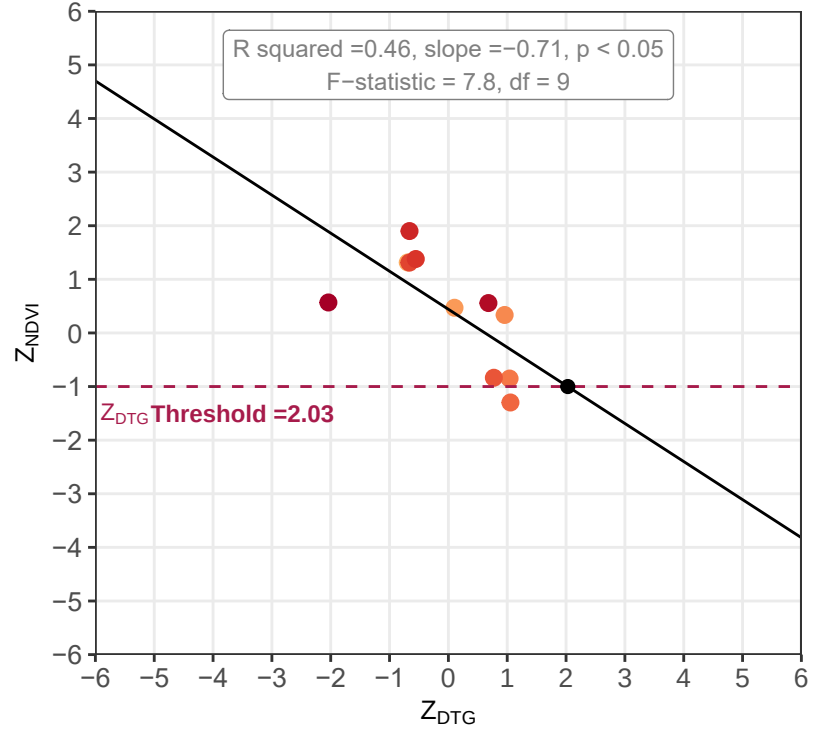
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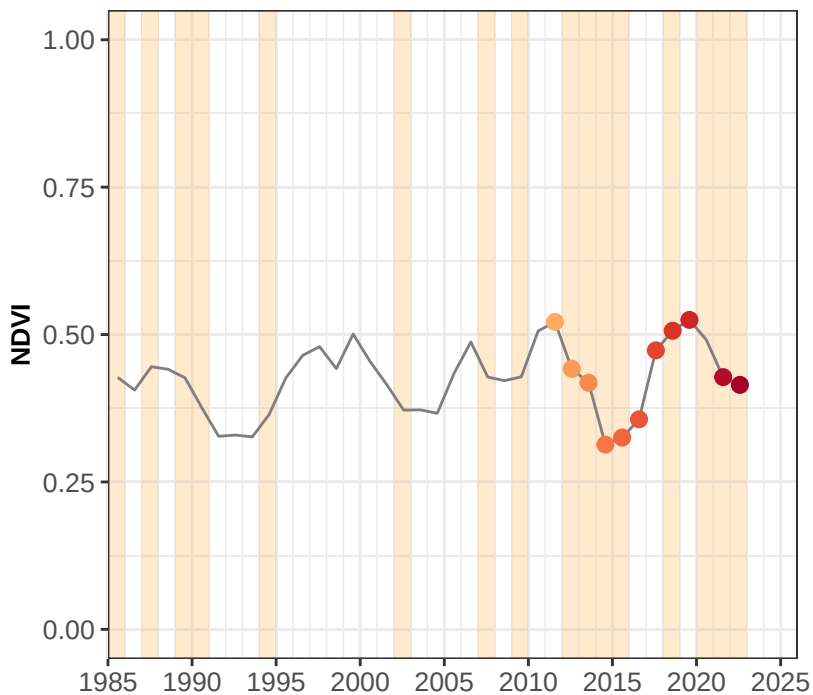


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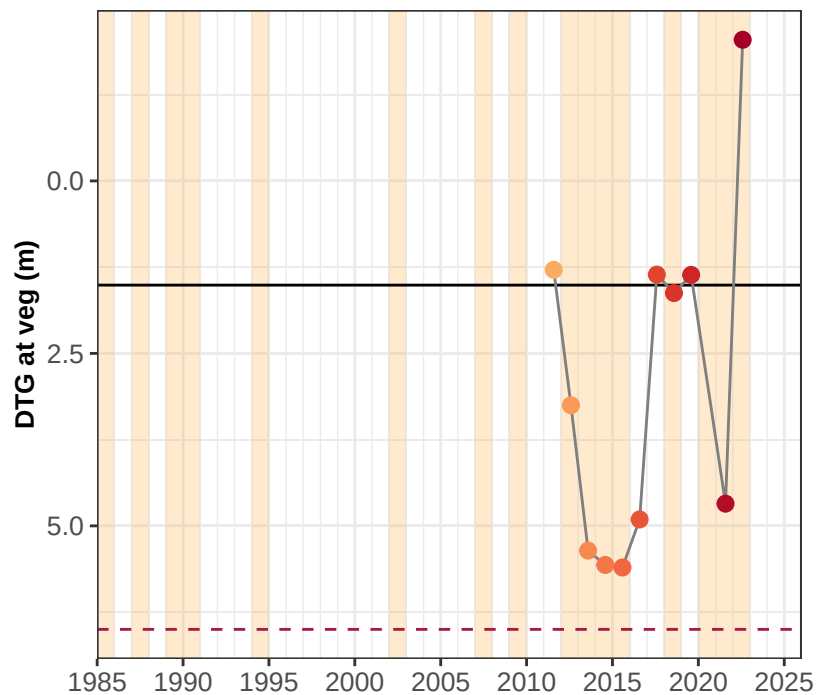


Salix (gdeID: 33808)

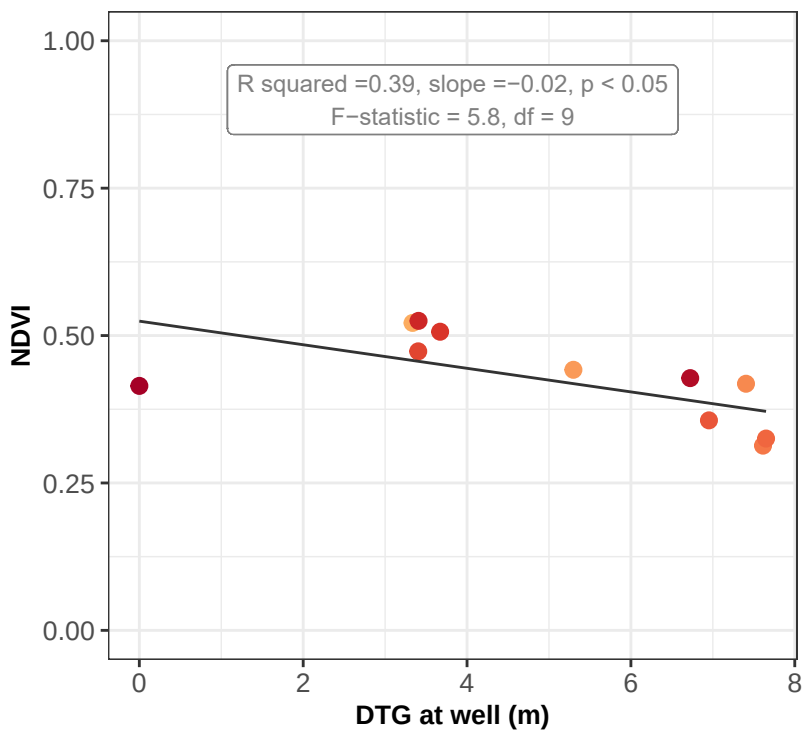
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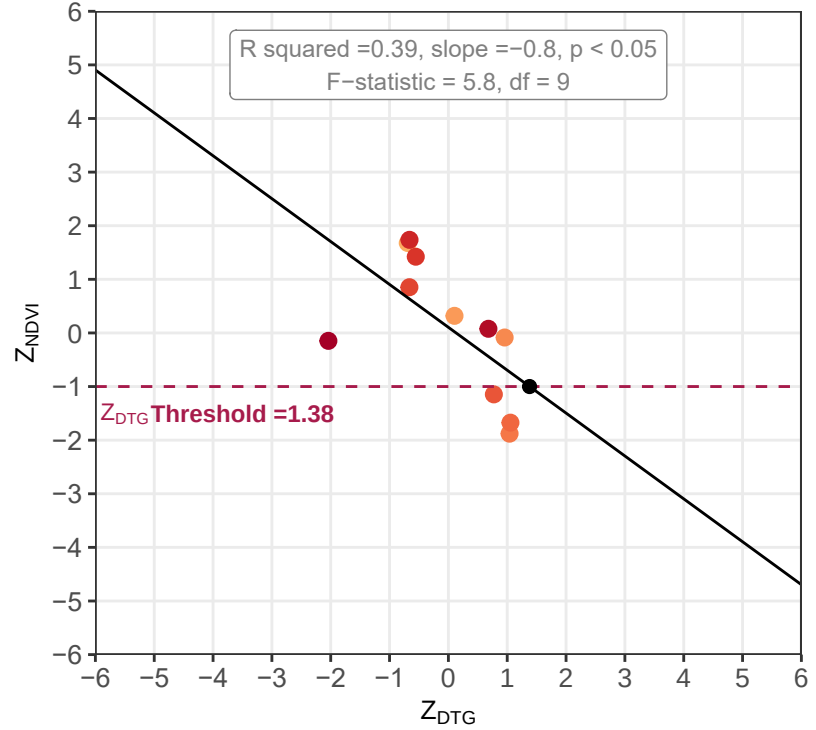
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c

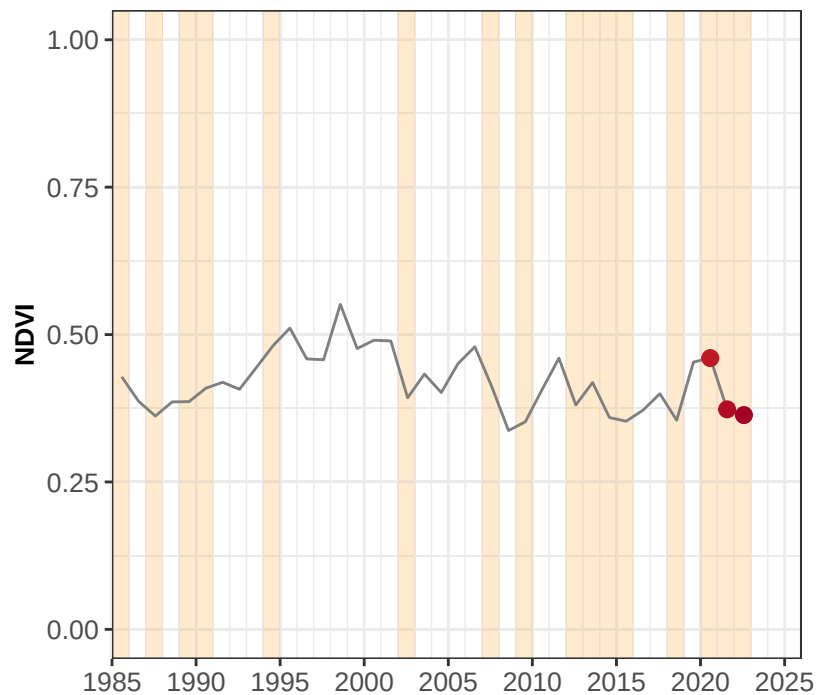


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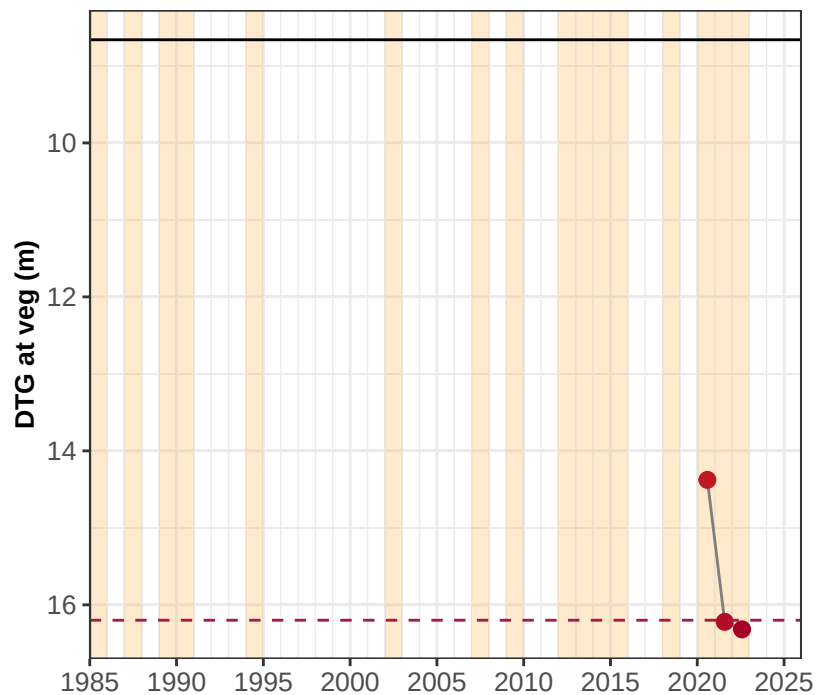


Quercus (gdeID: 341831)

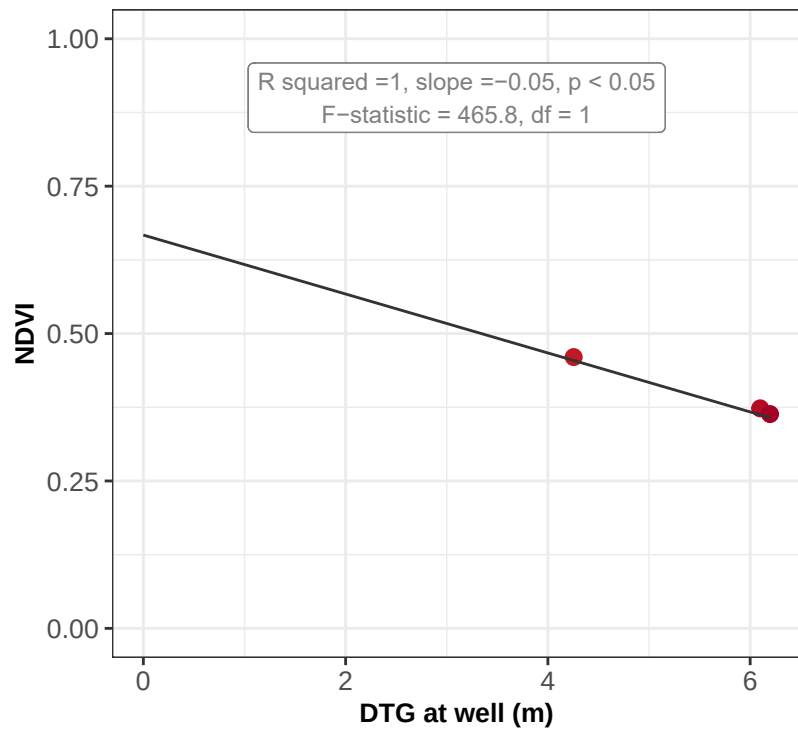
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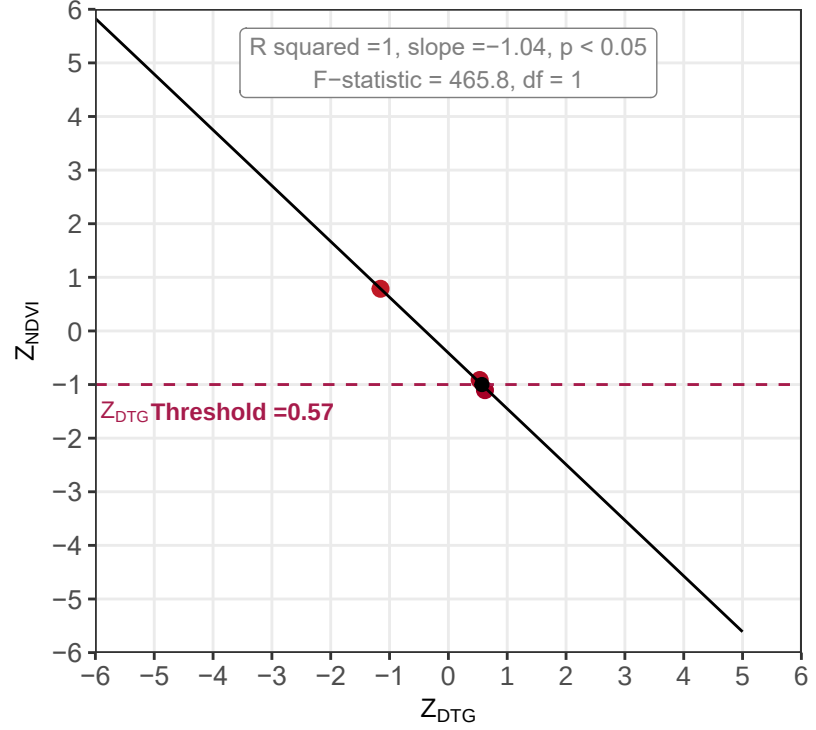
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c

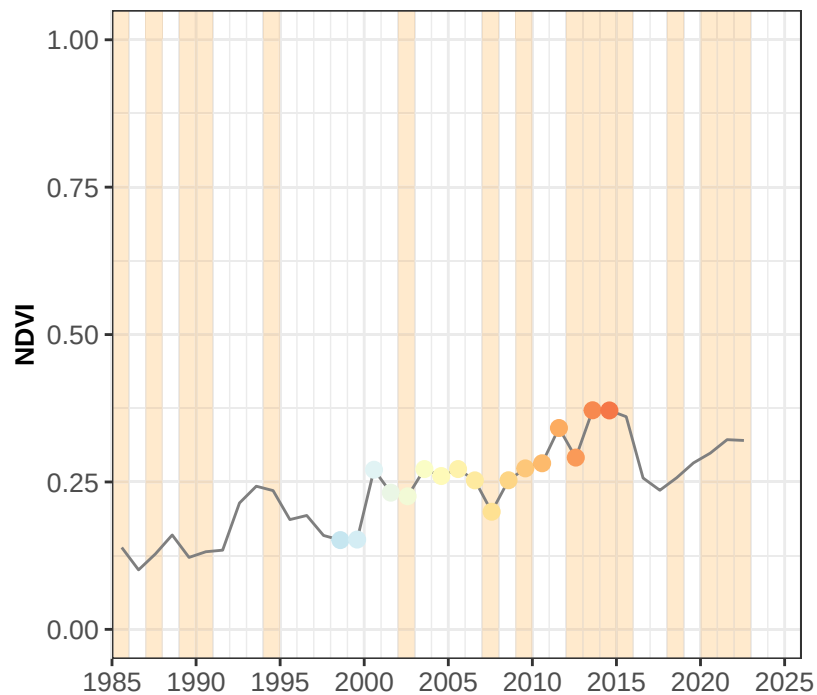


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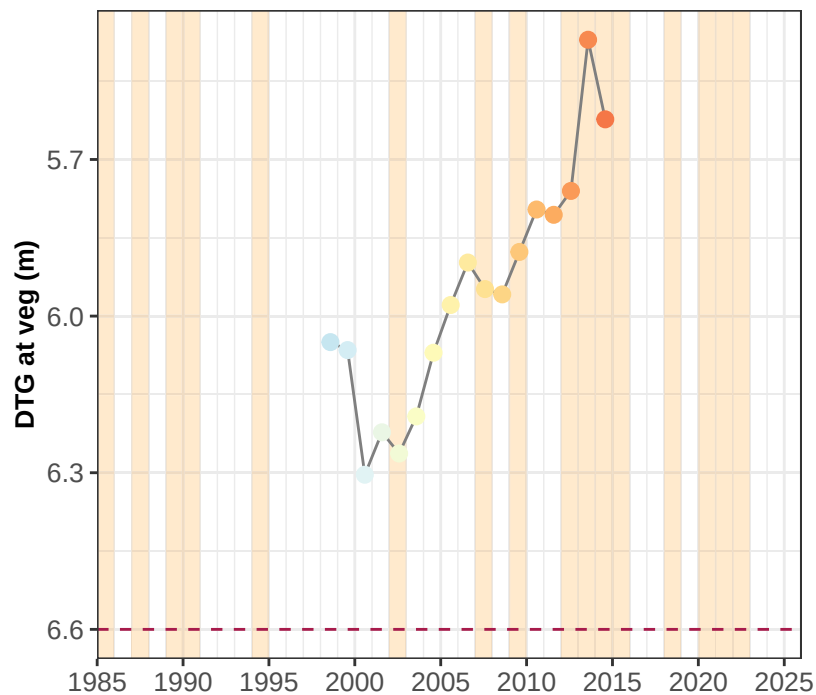


(gdeID: 3431)

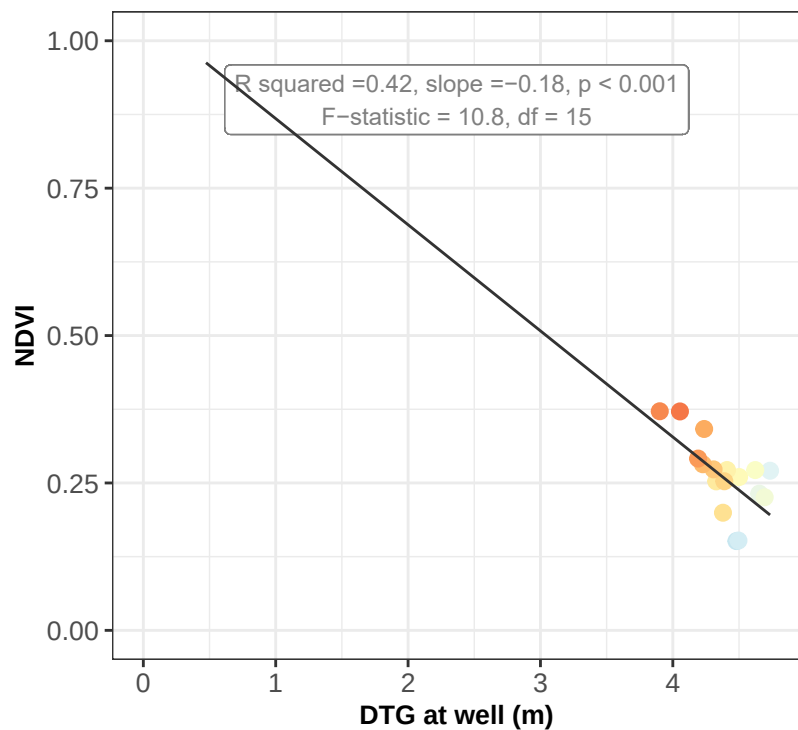
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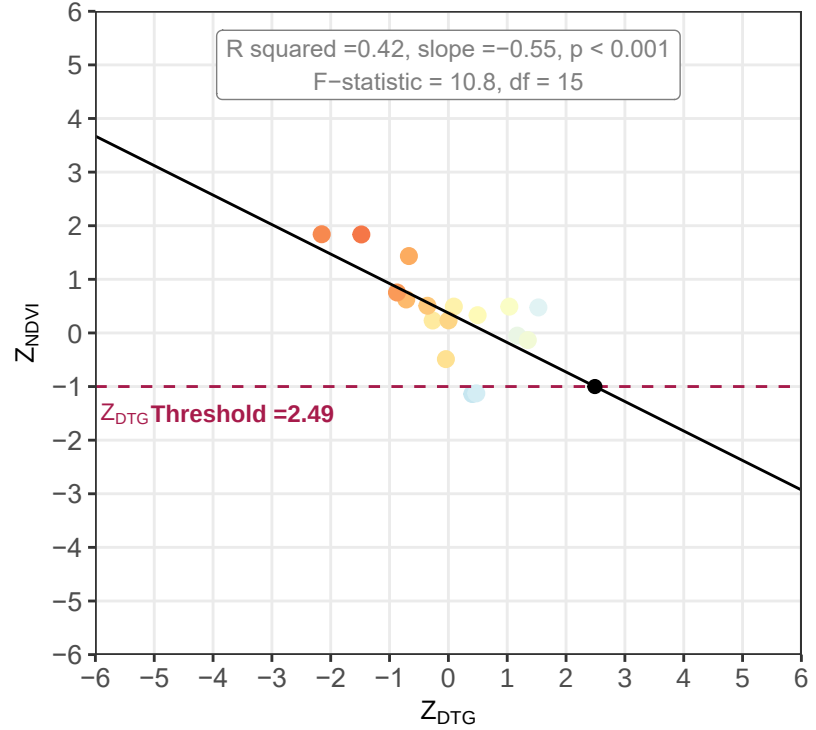
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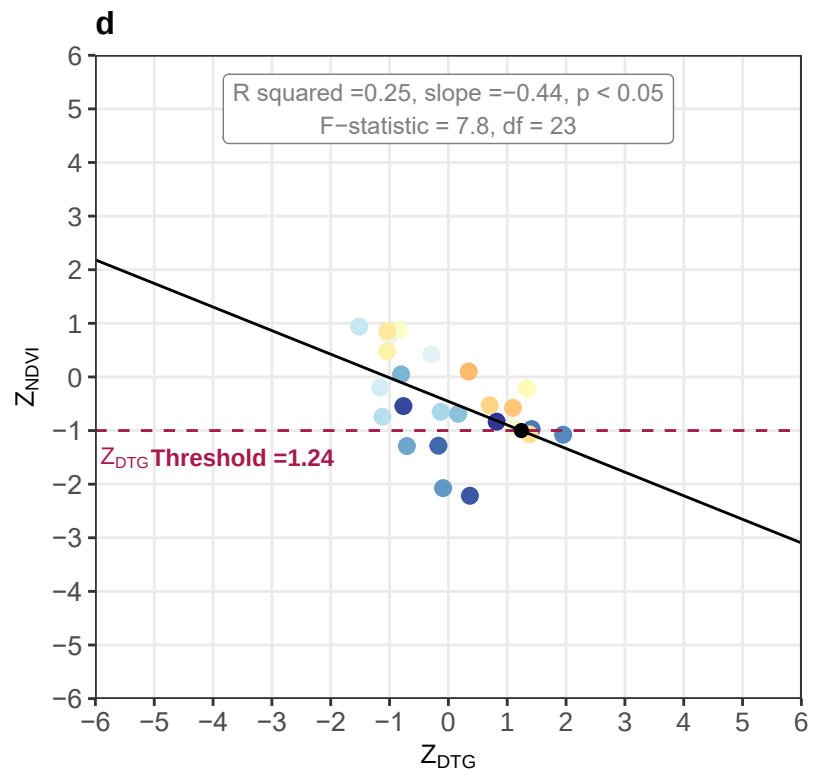
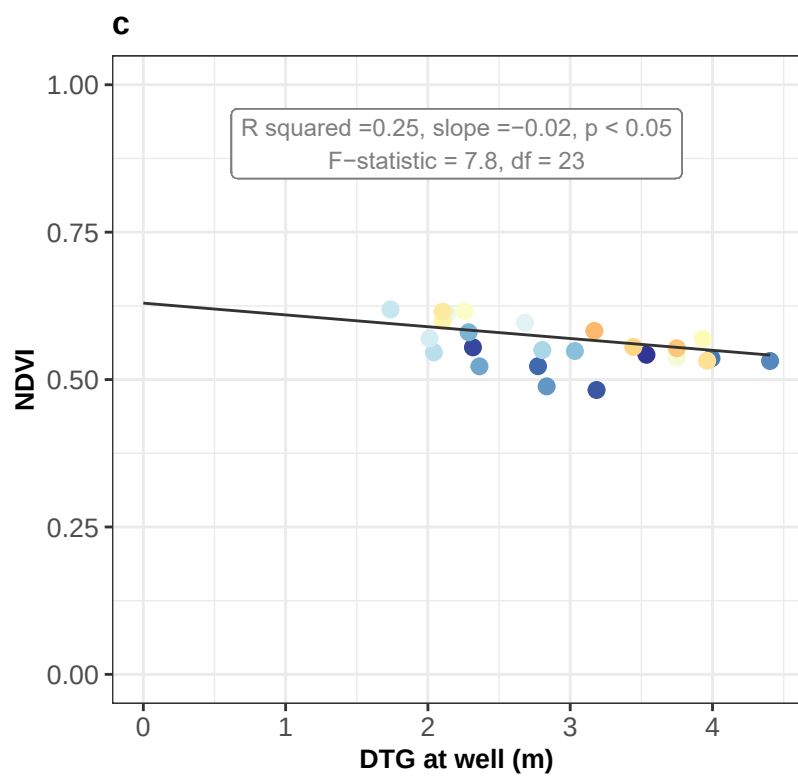
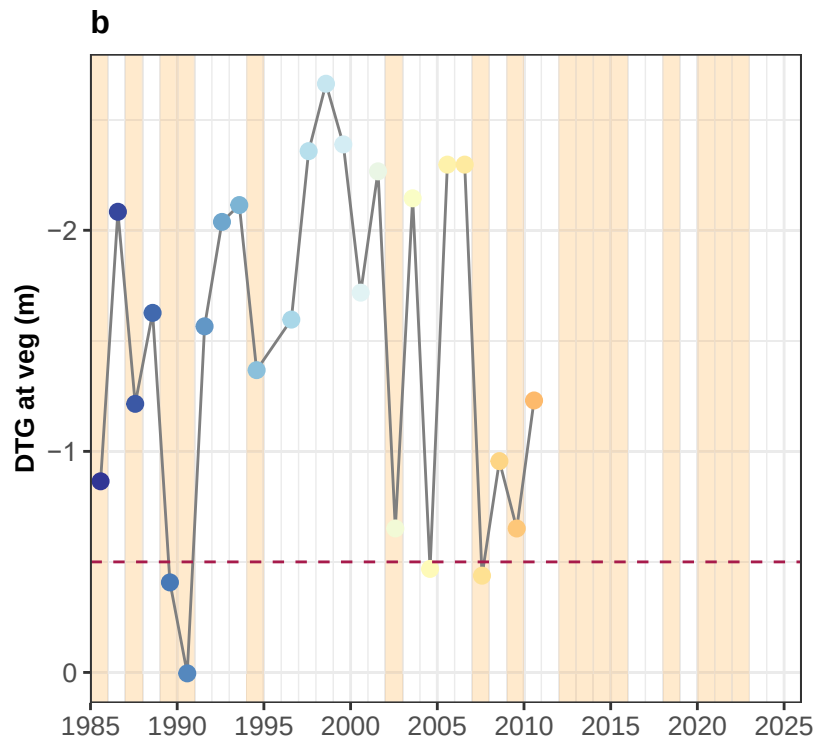
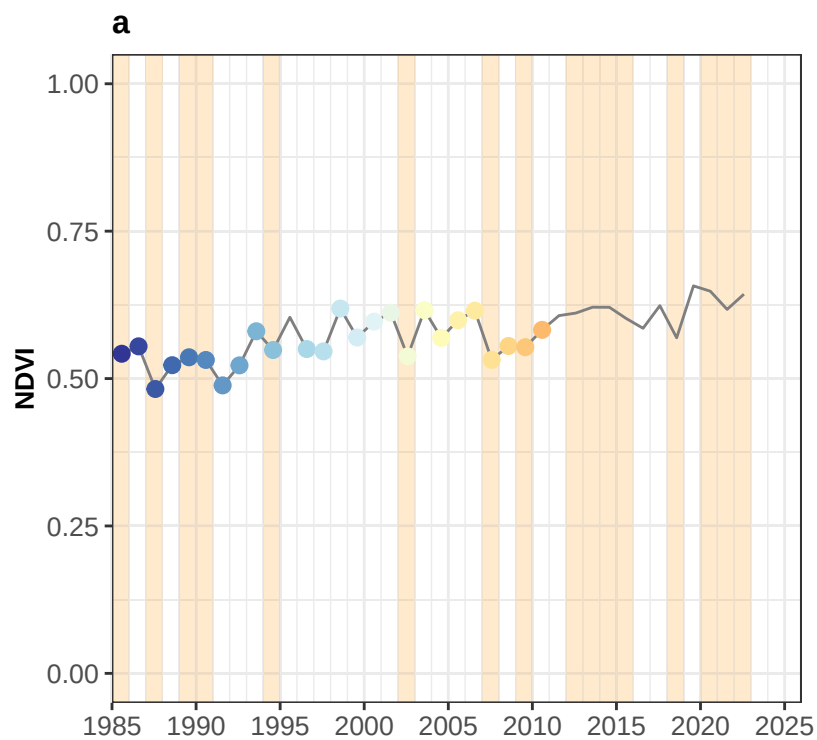
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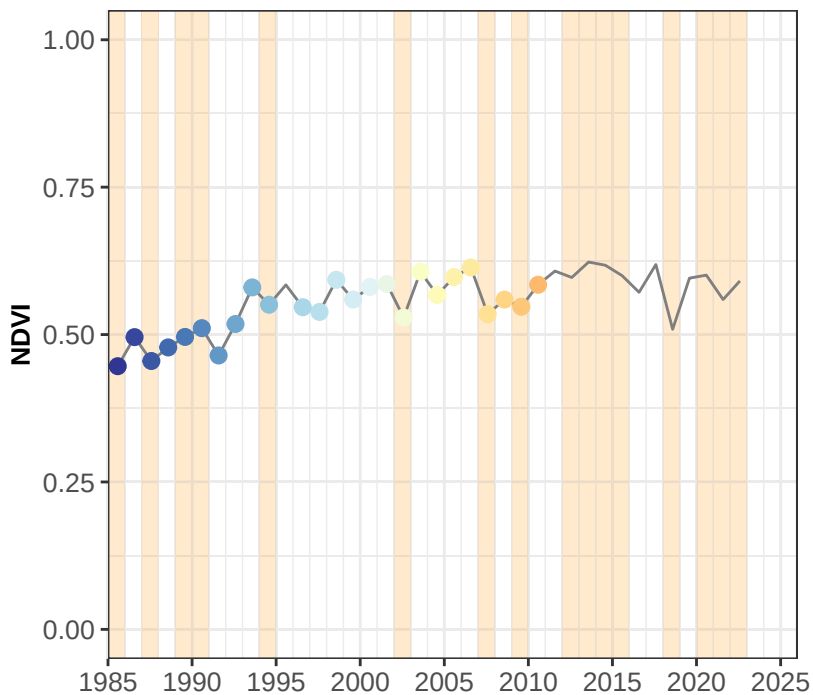


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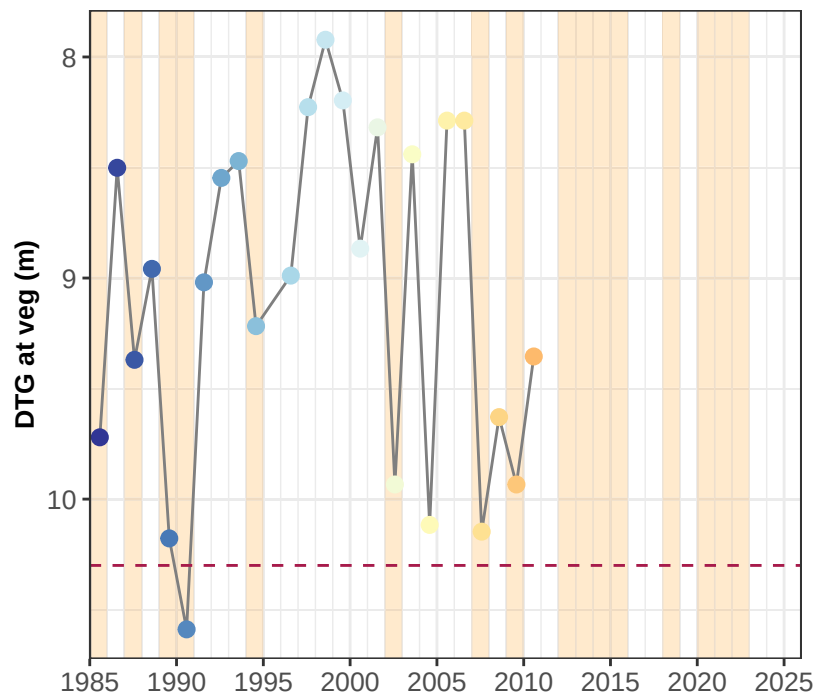


(gdeID: 348850)

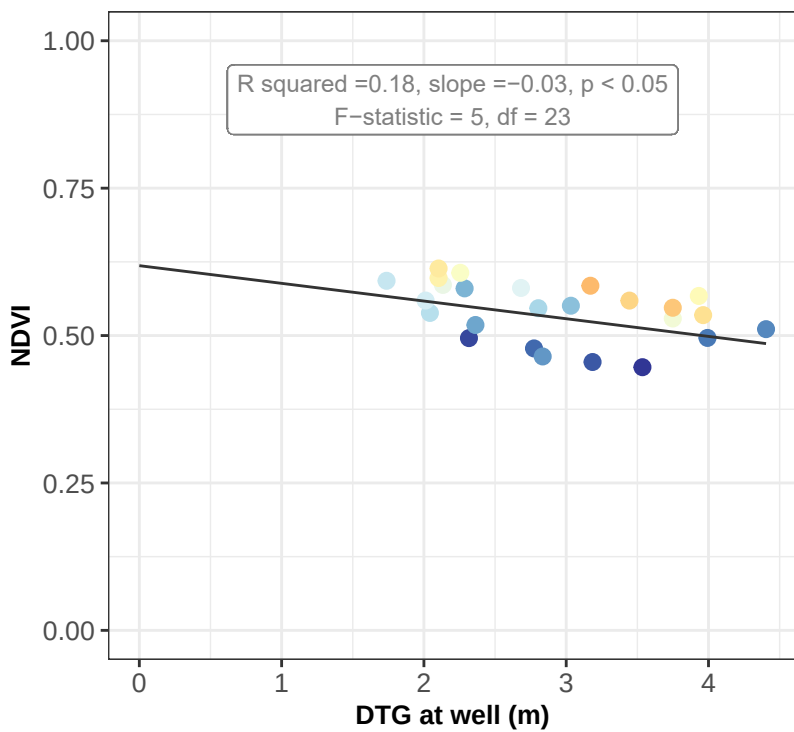
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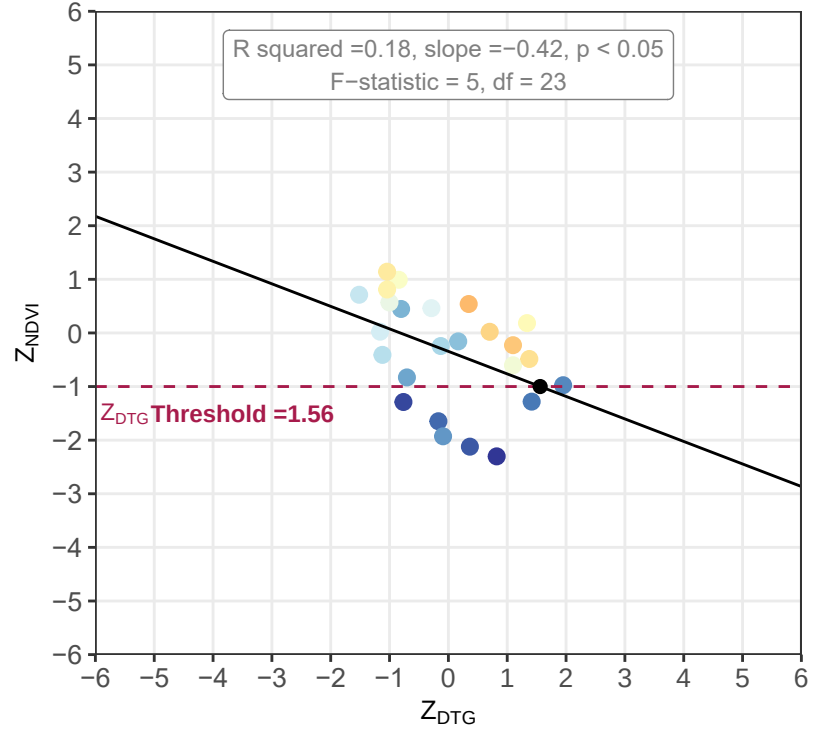
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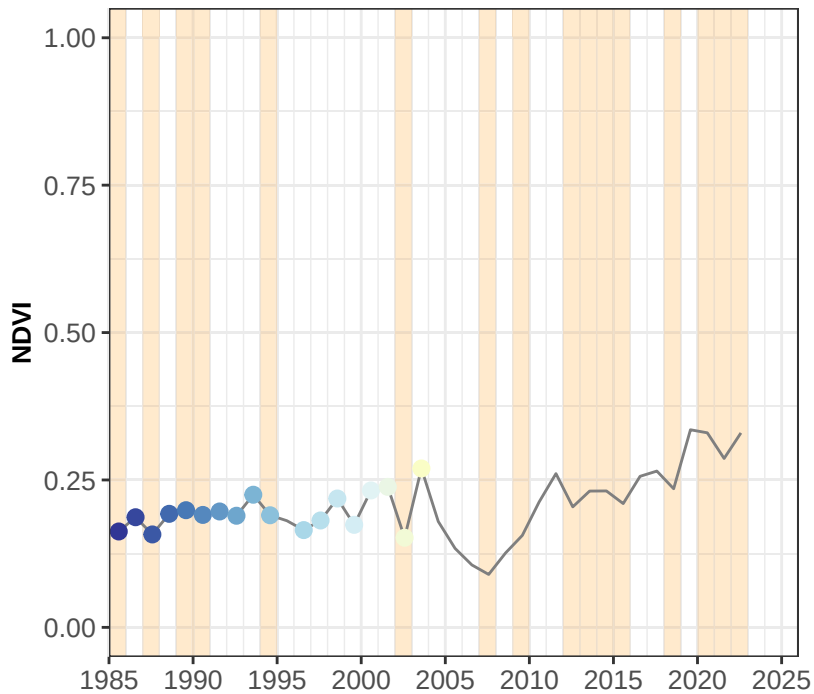


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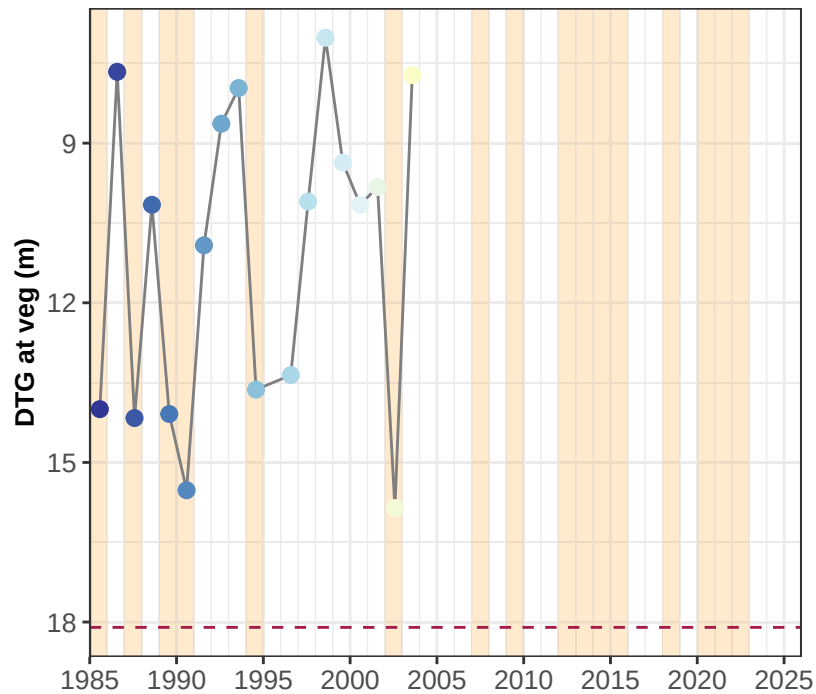


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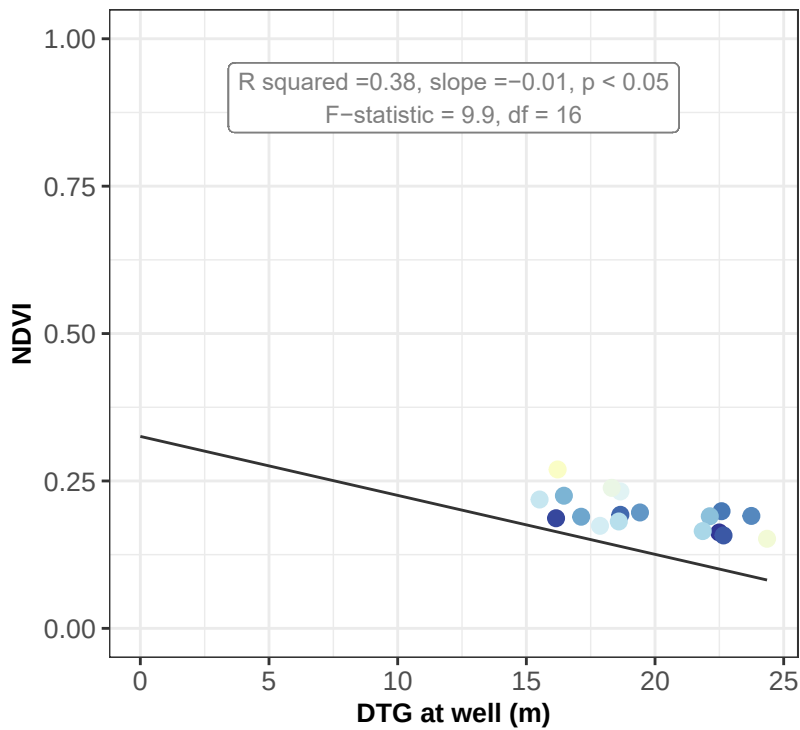
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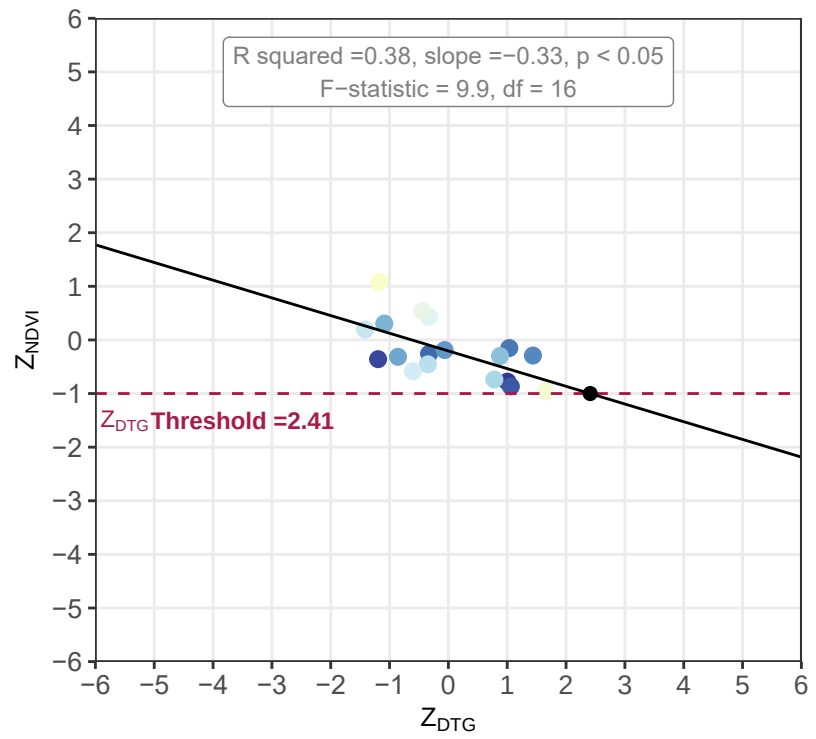
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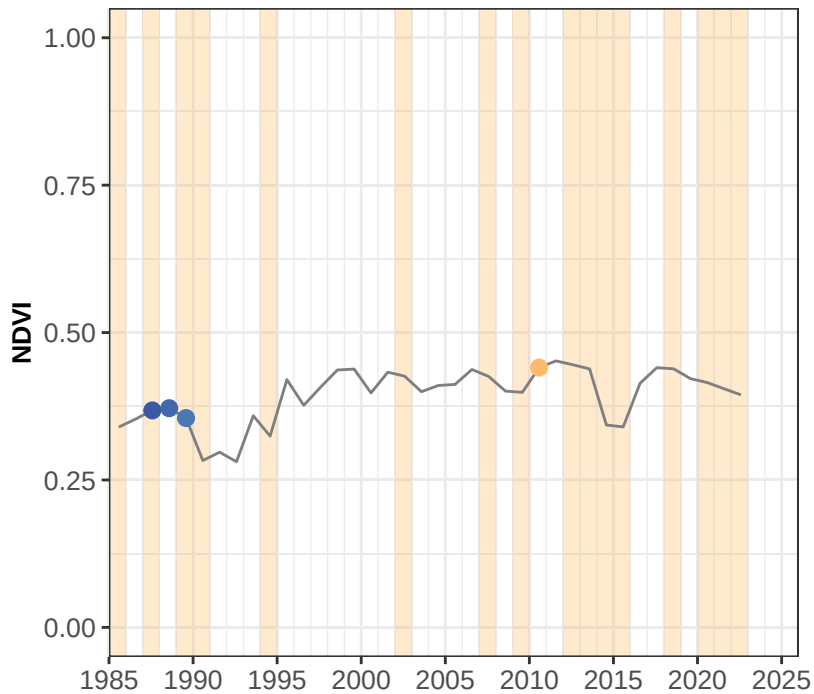


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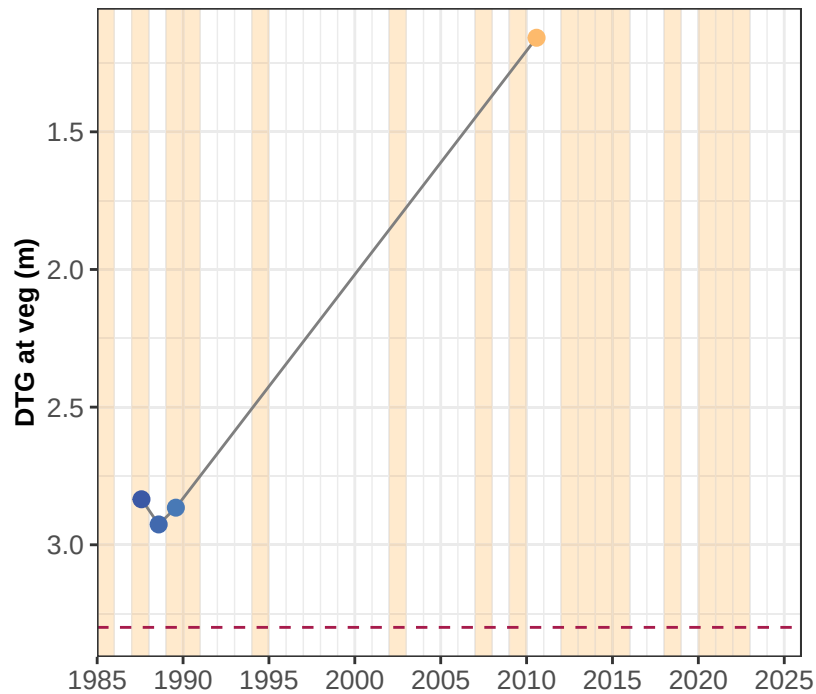


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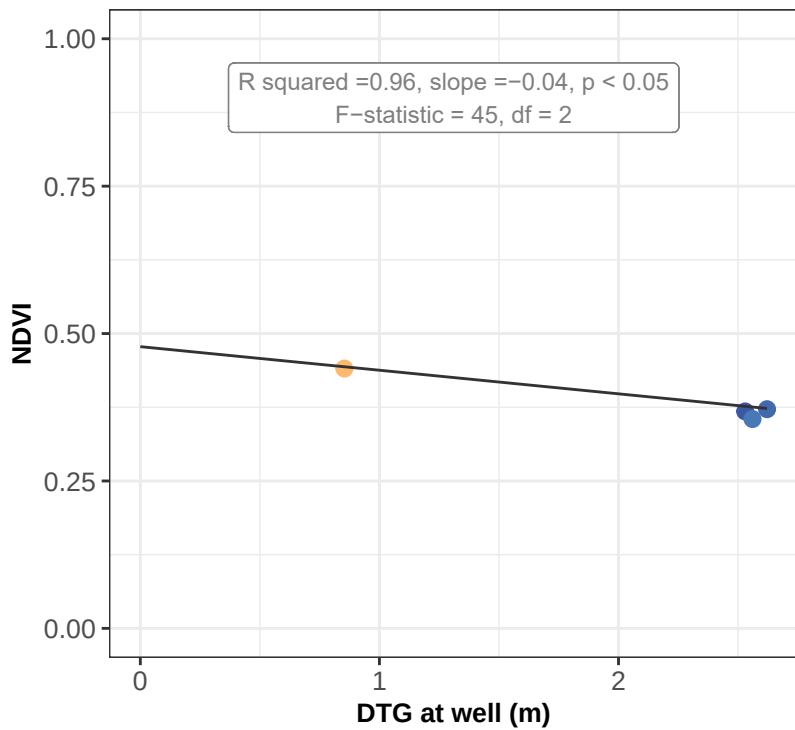
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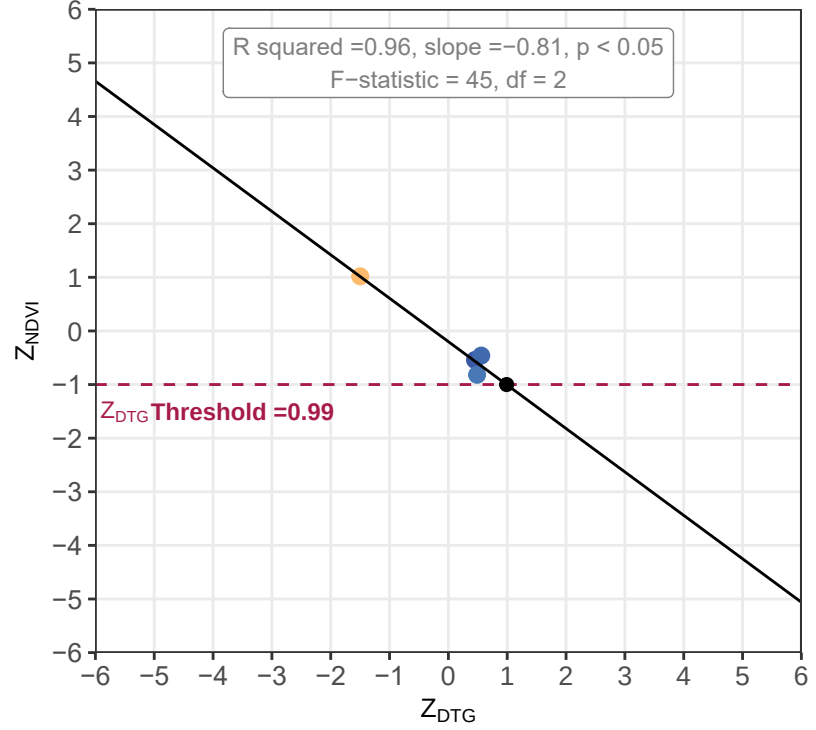
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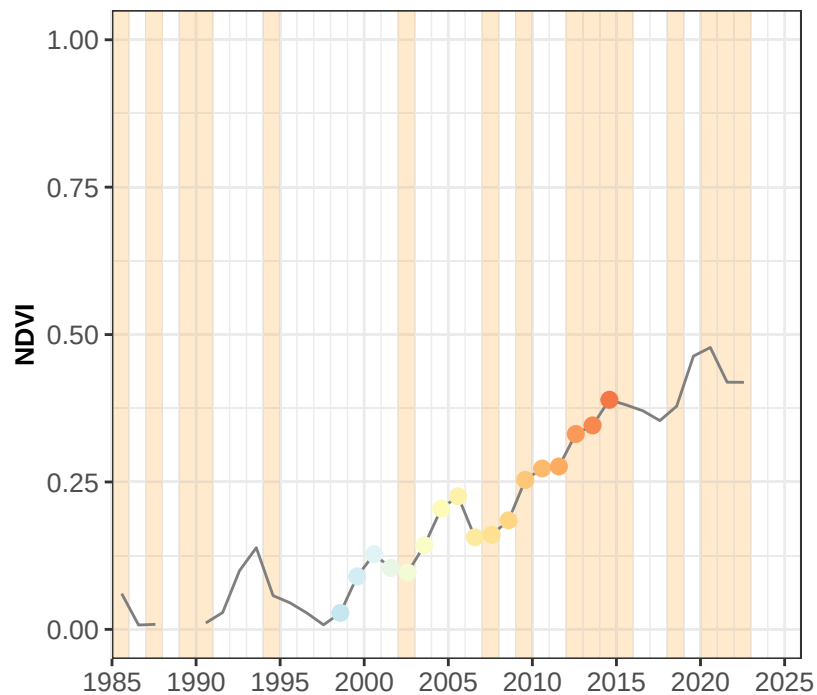


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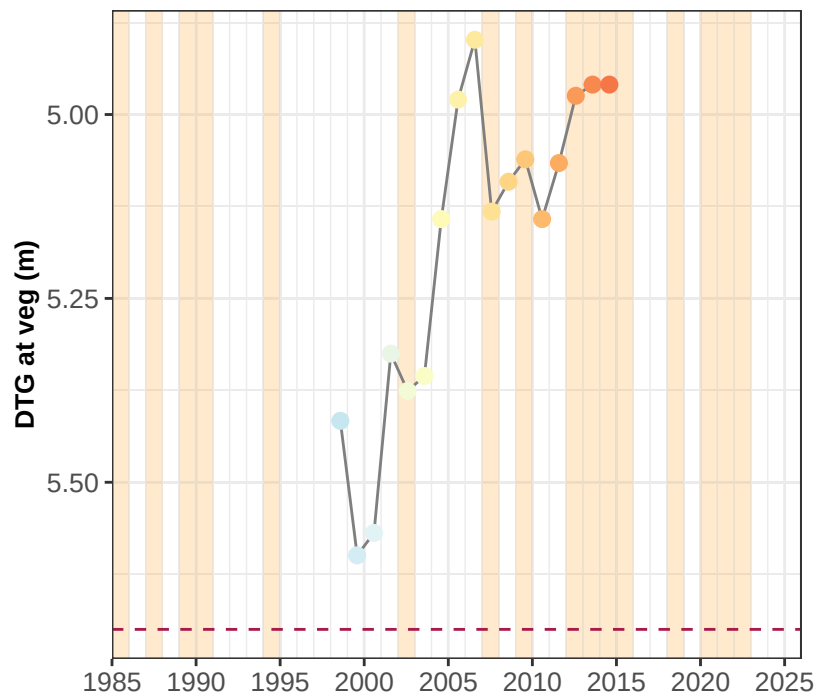


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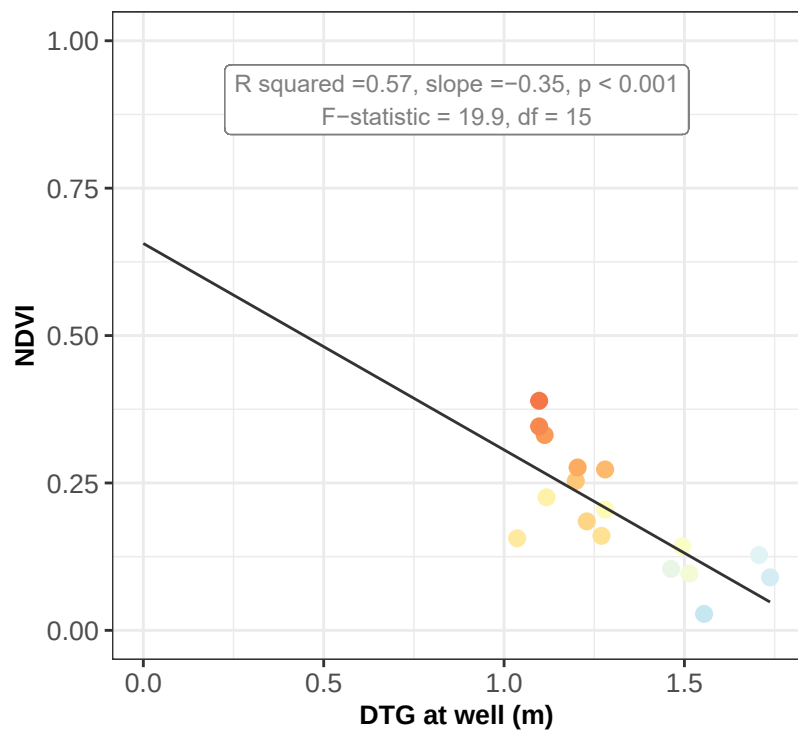
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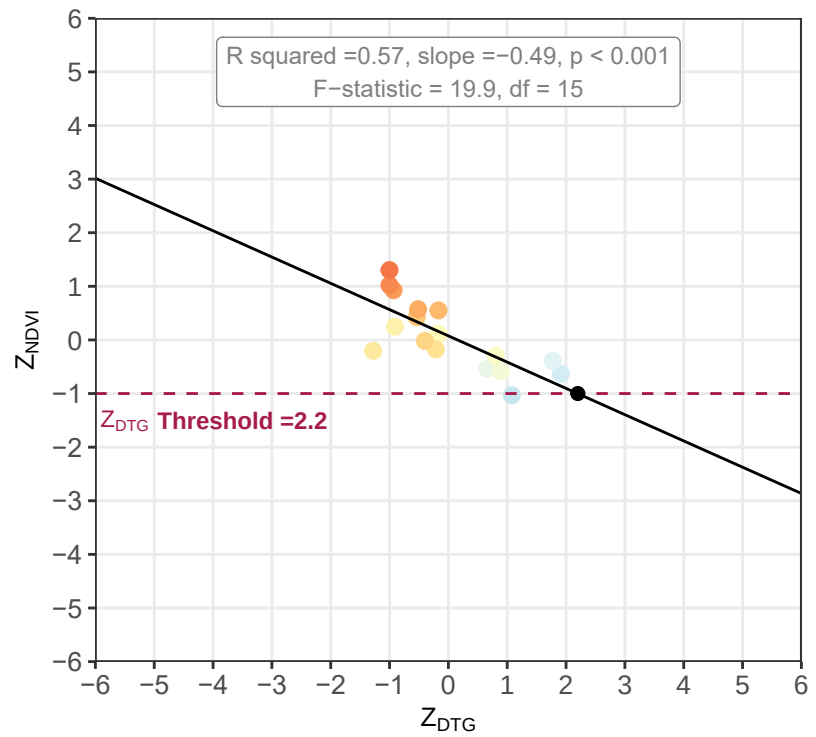
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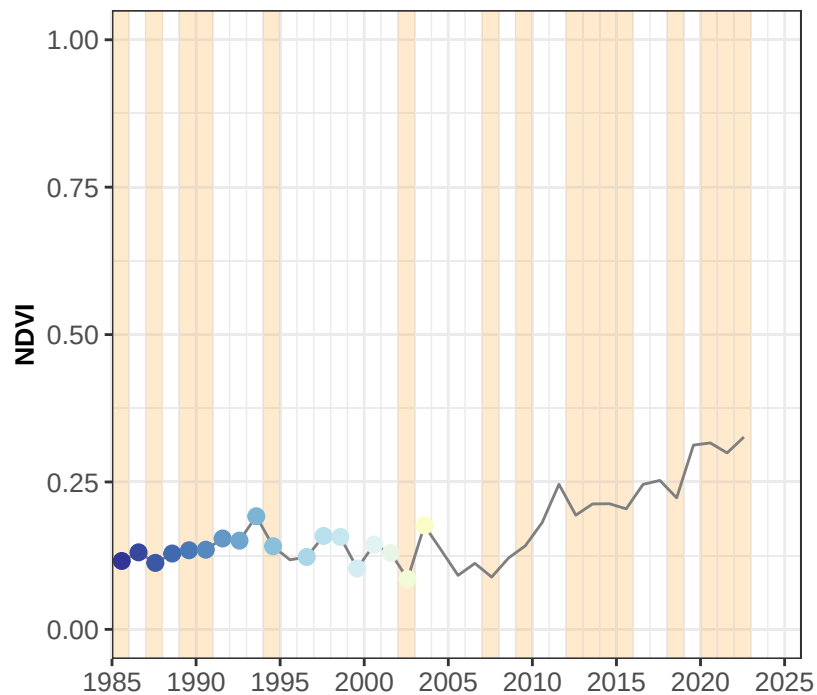


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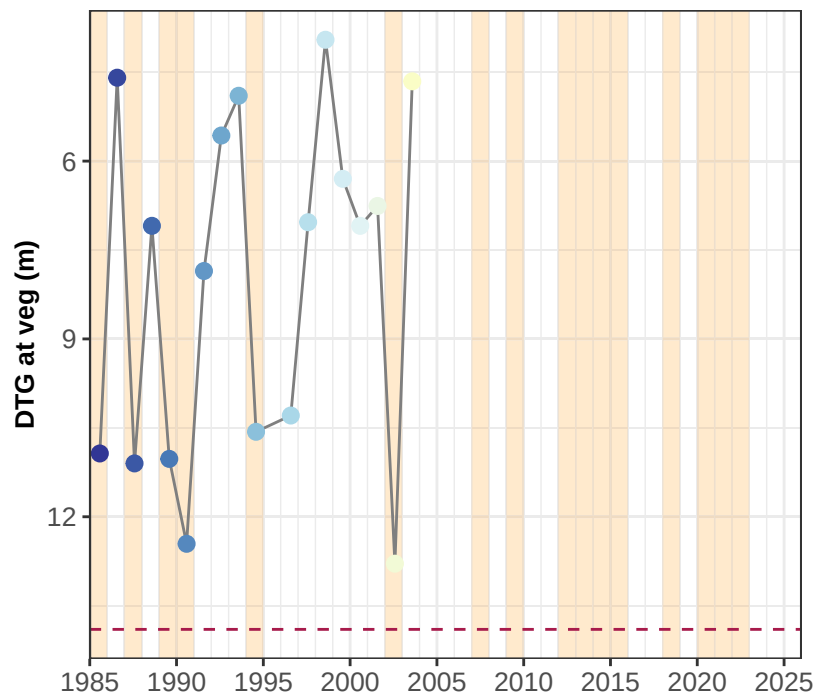


Lepidospartum (gdeID: 351414)

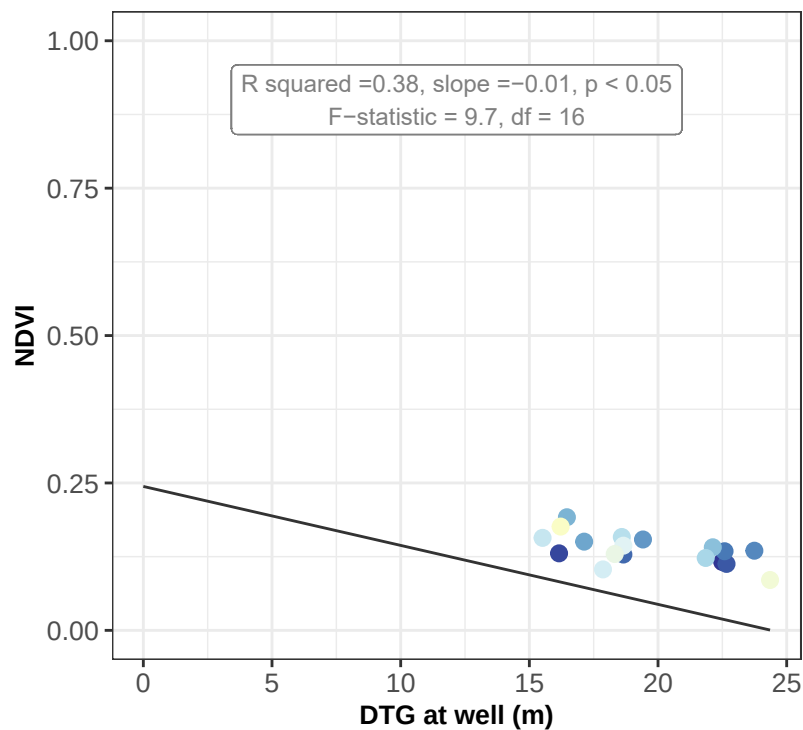
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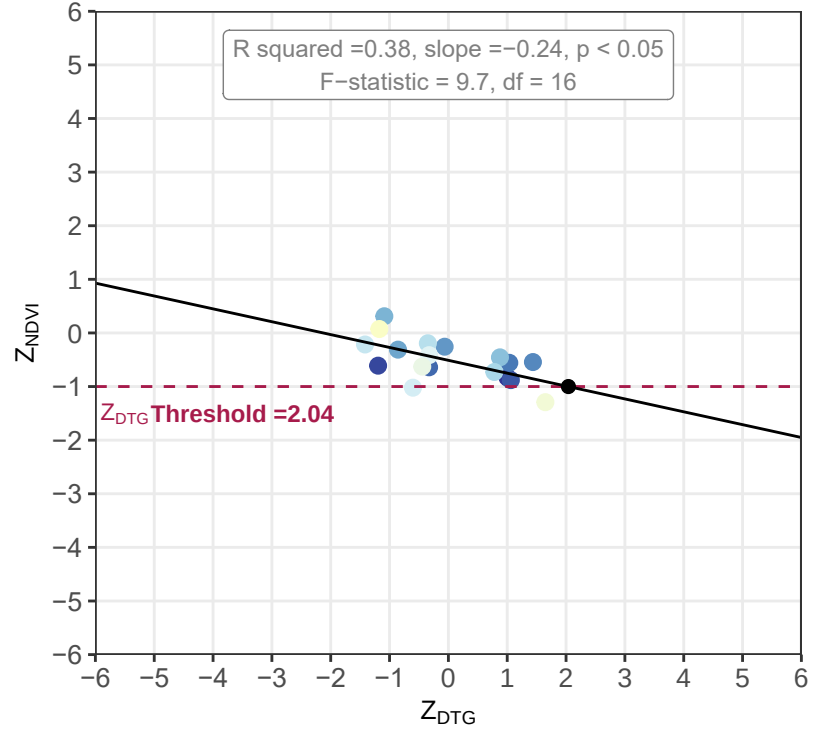
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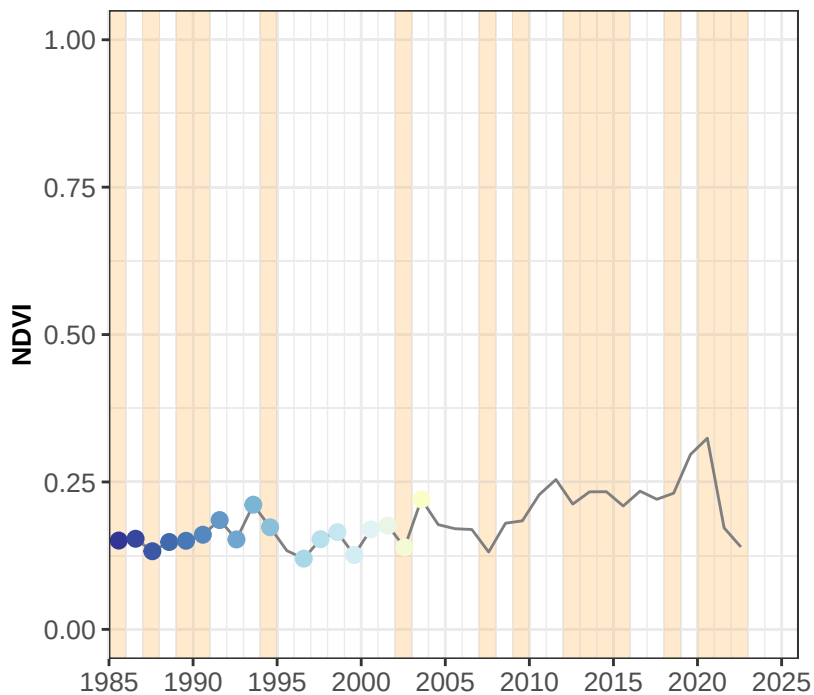


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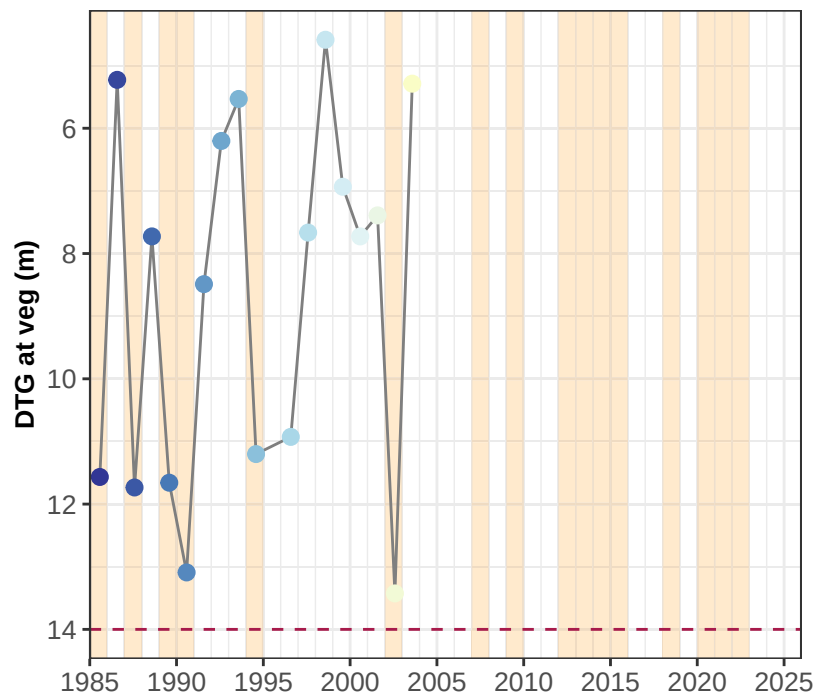


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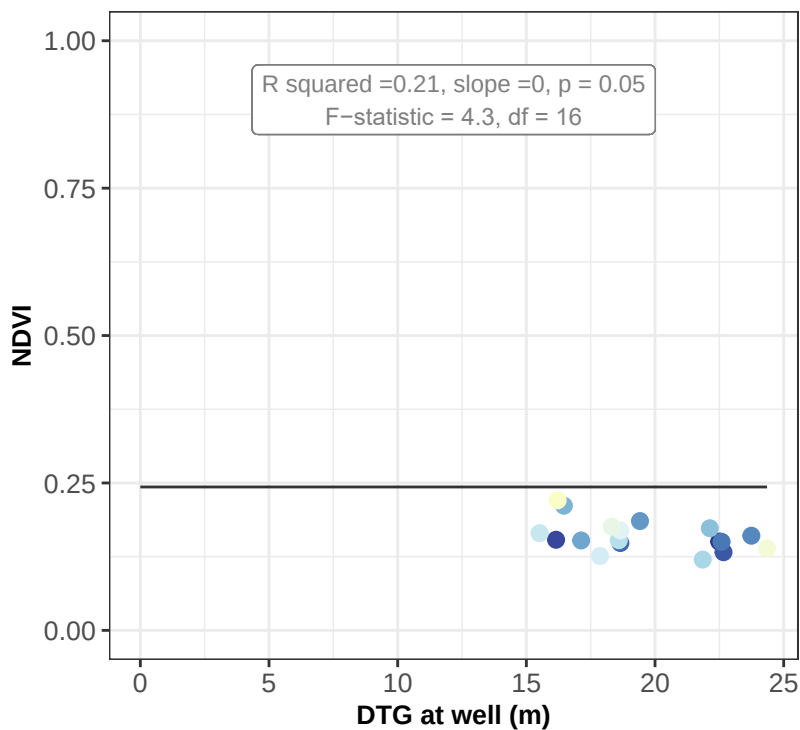
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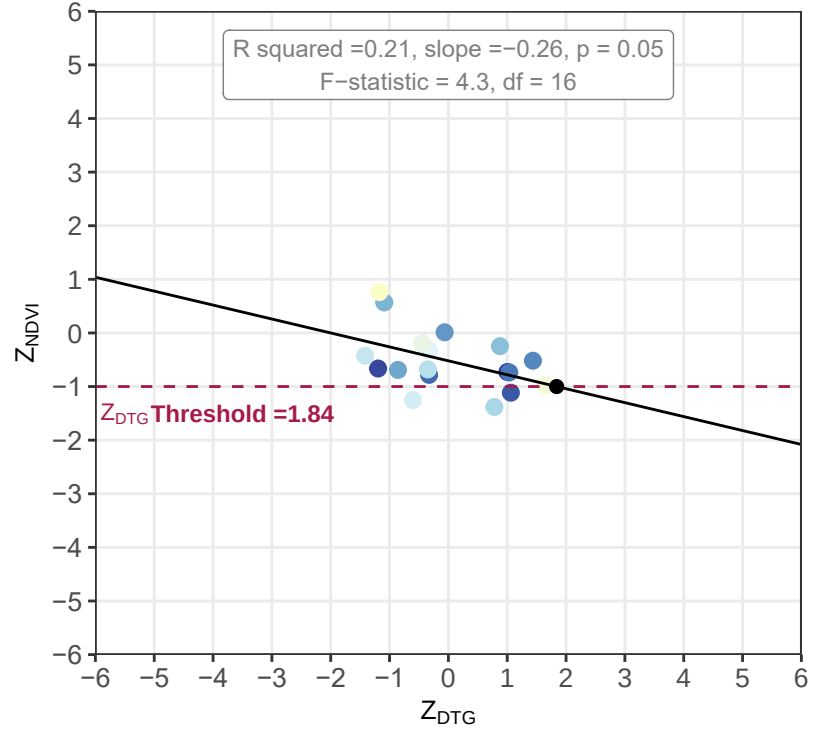
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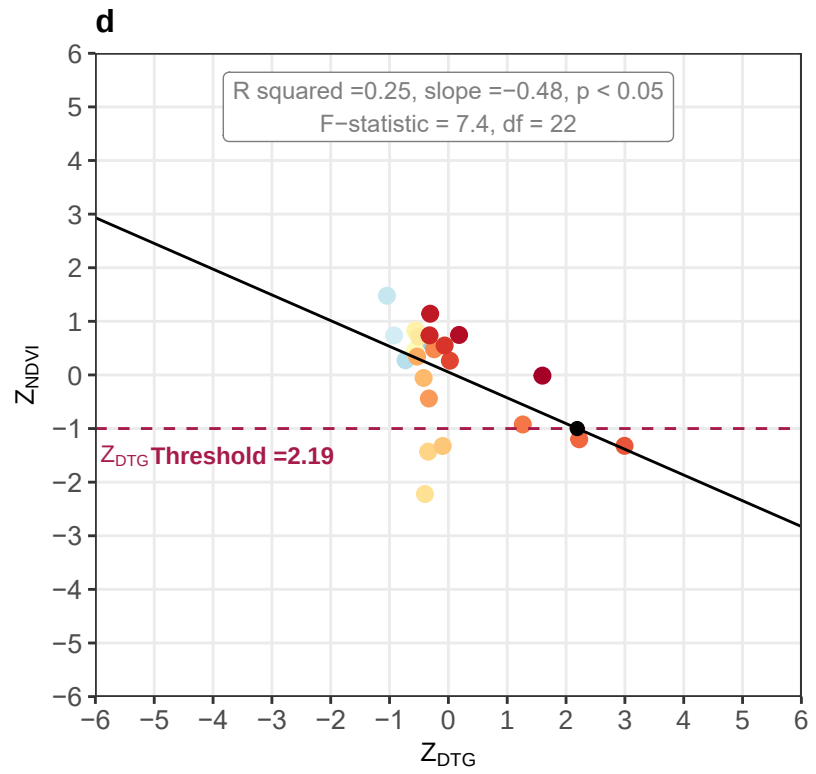
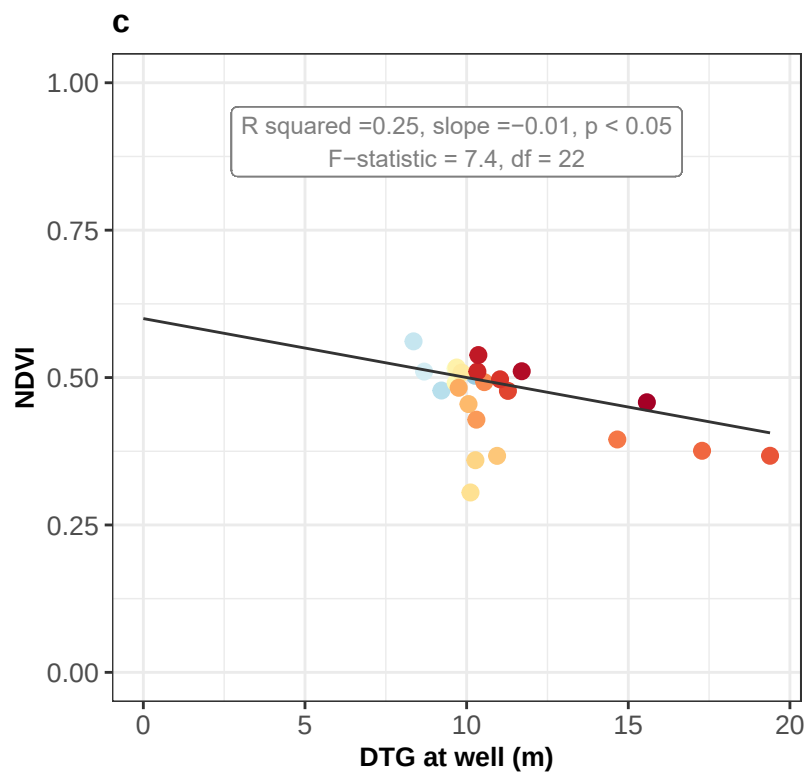
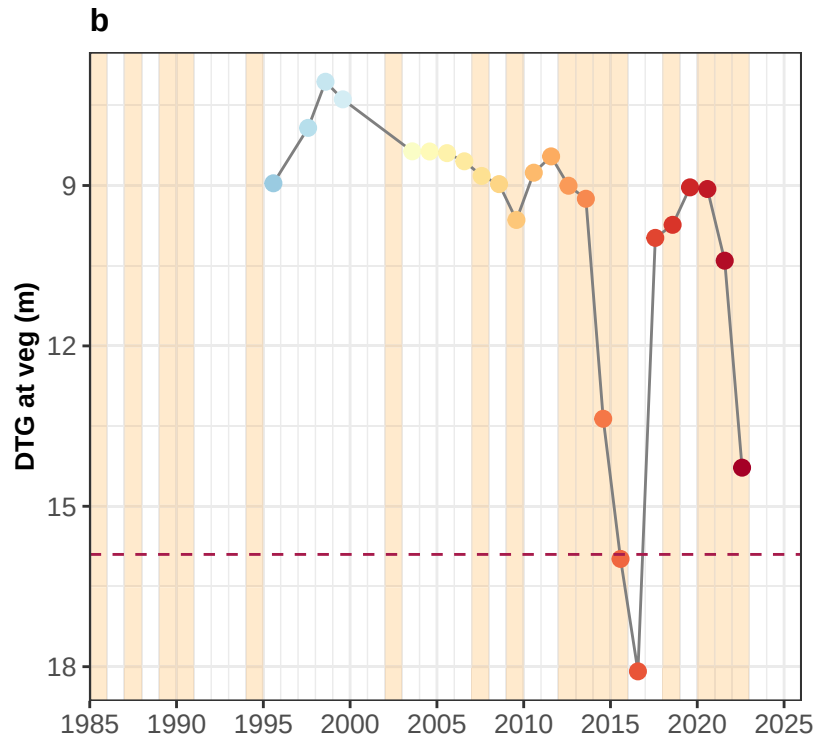
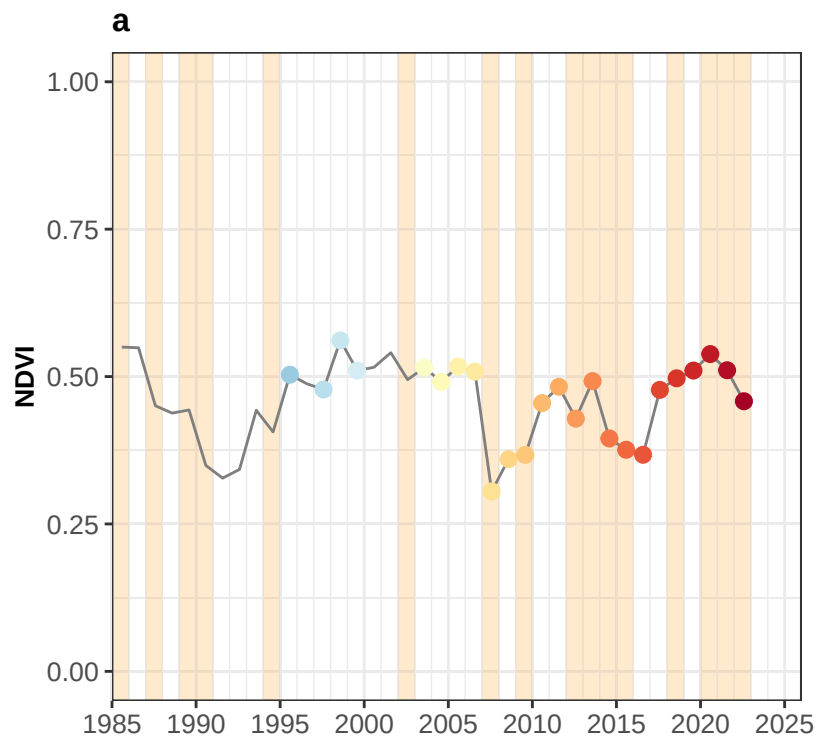
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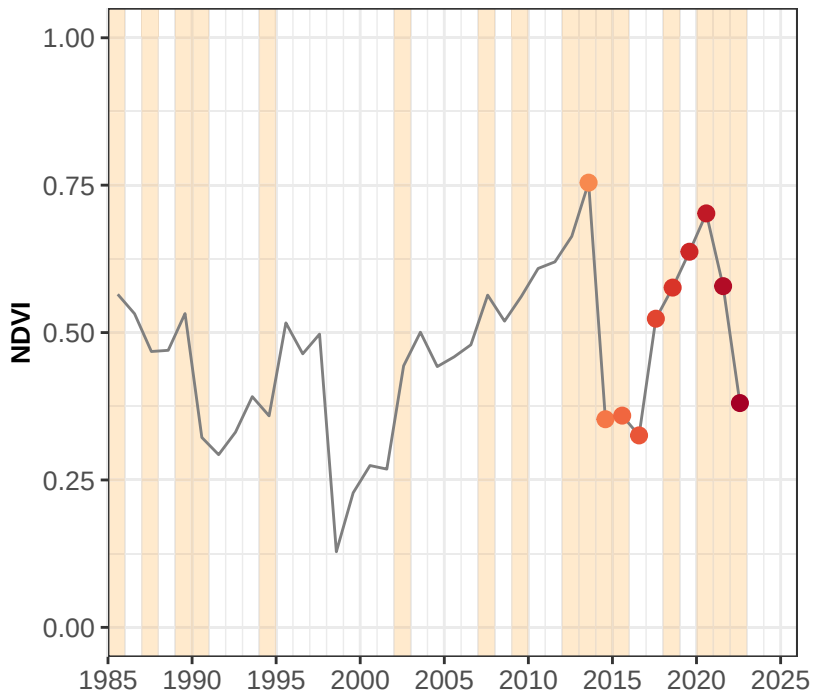


Flooded Veg (gdeID: 36123)

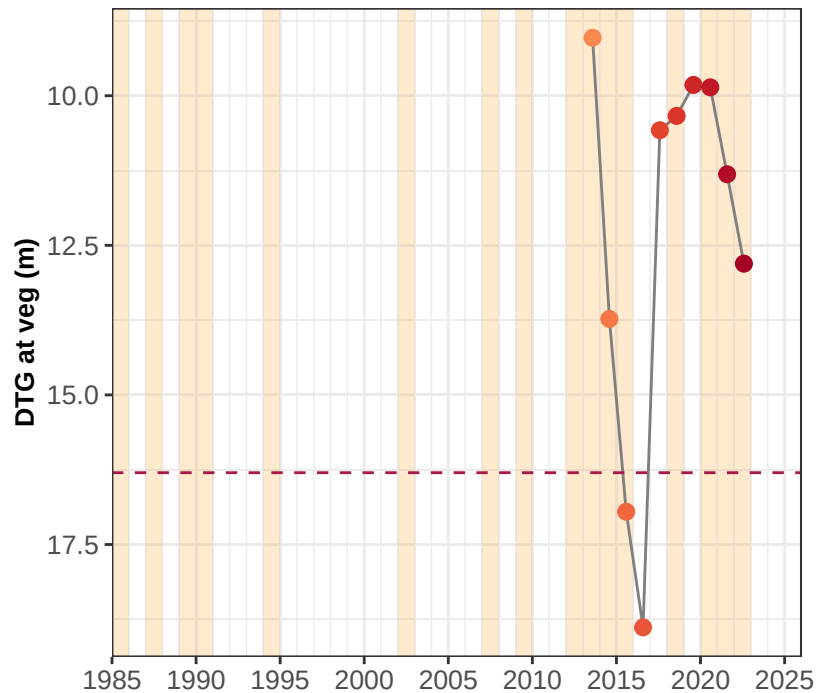


Flooded Veg (gdeID: 36125)

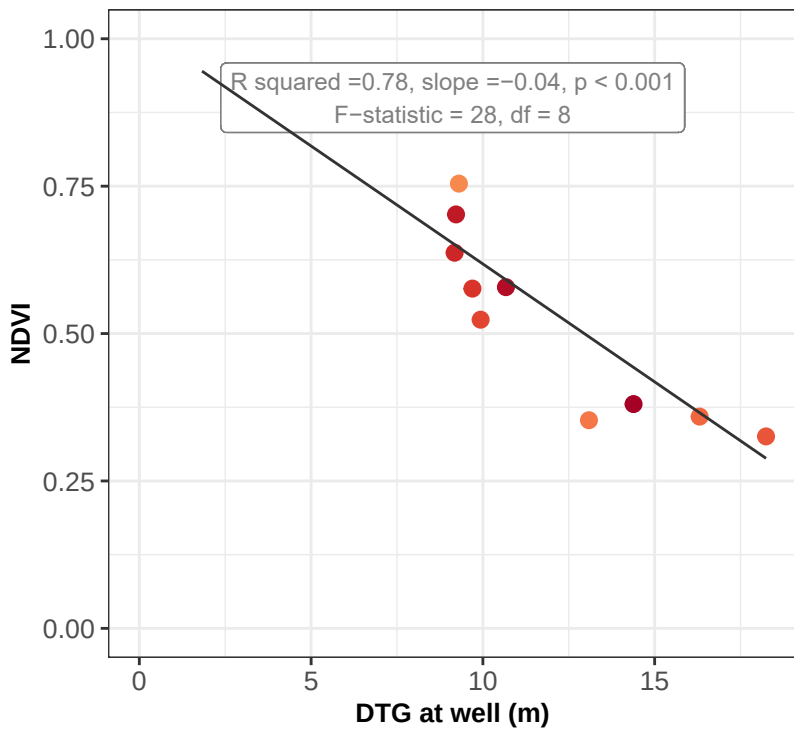
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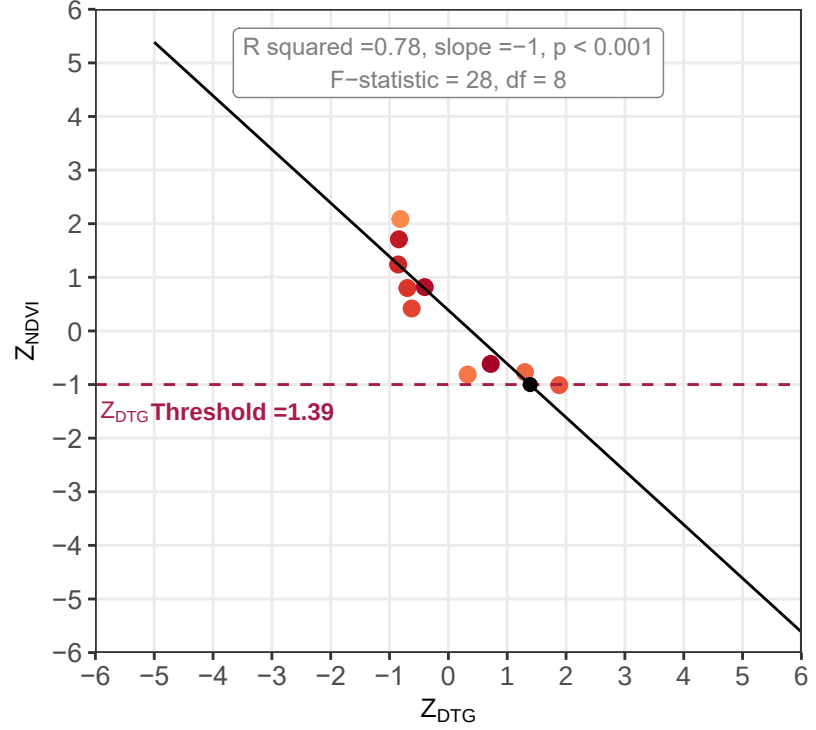
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c

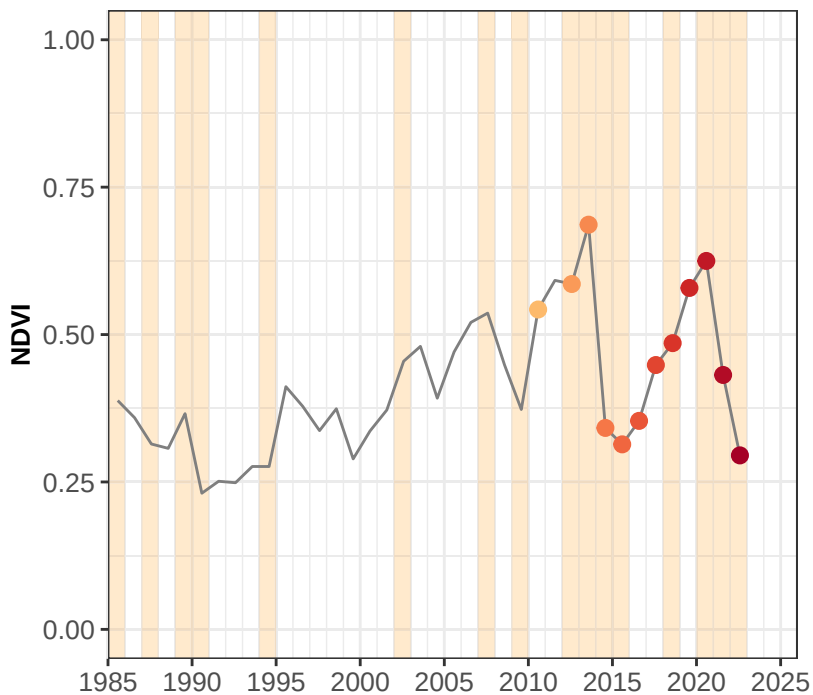


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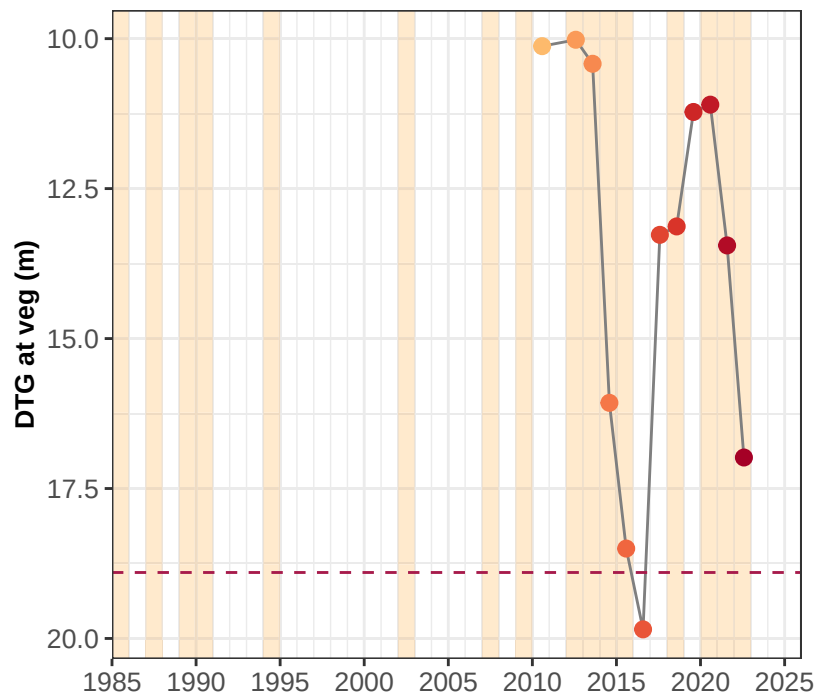


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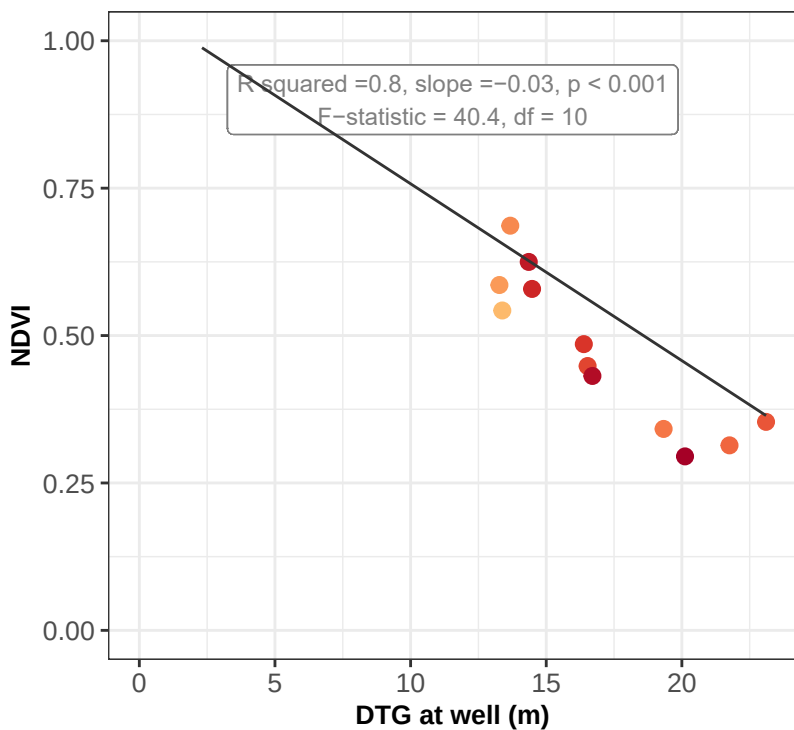
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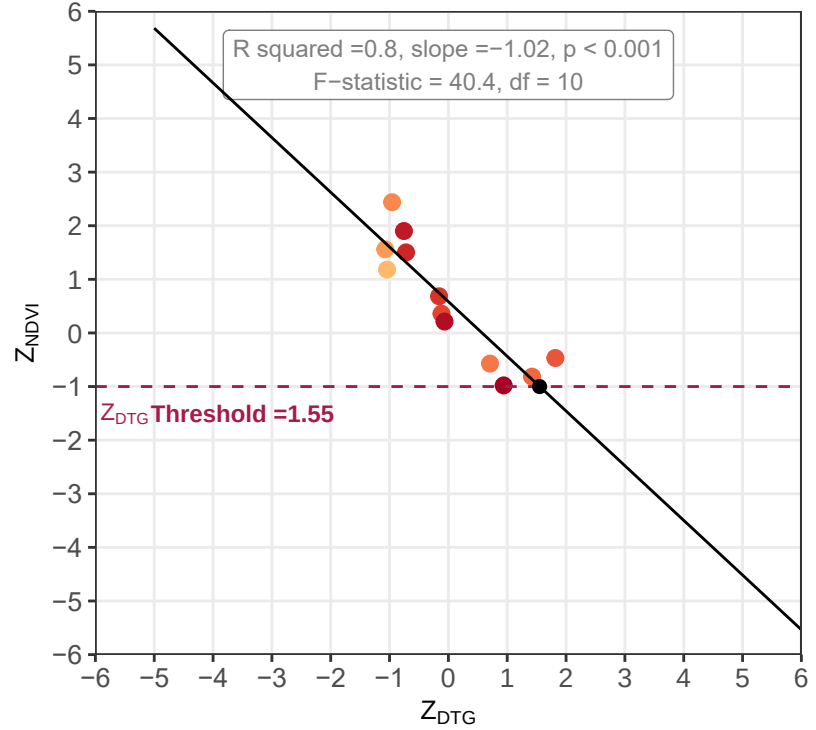
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c

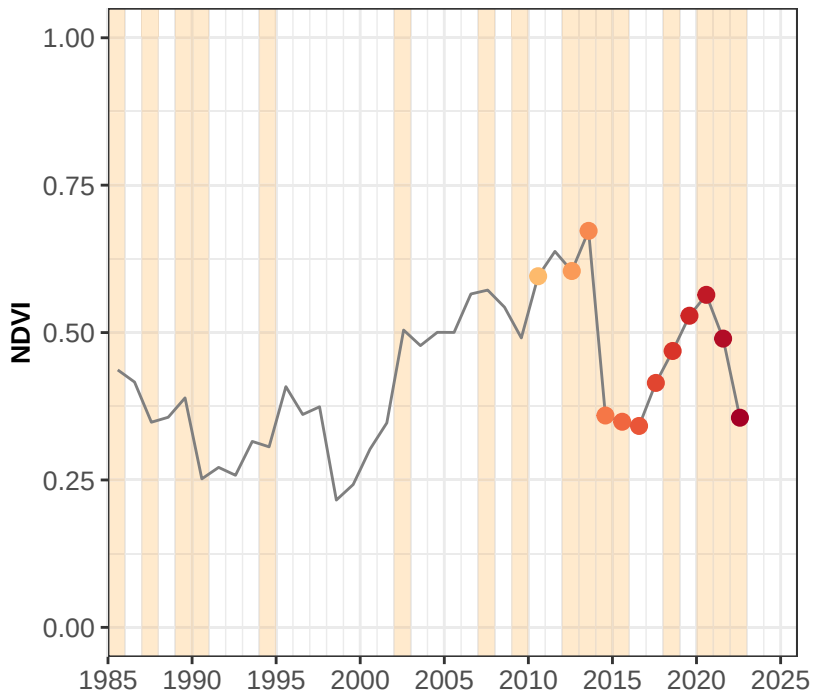


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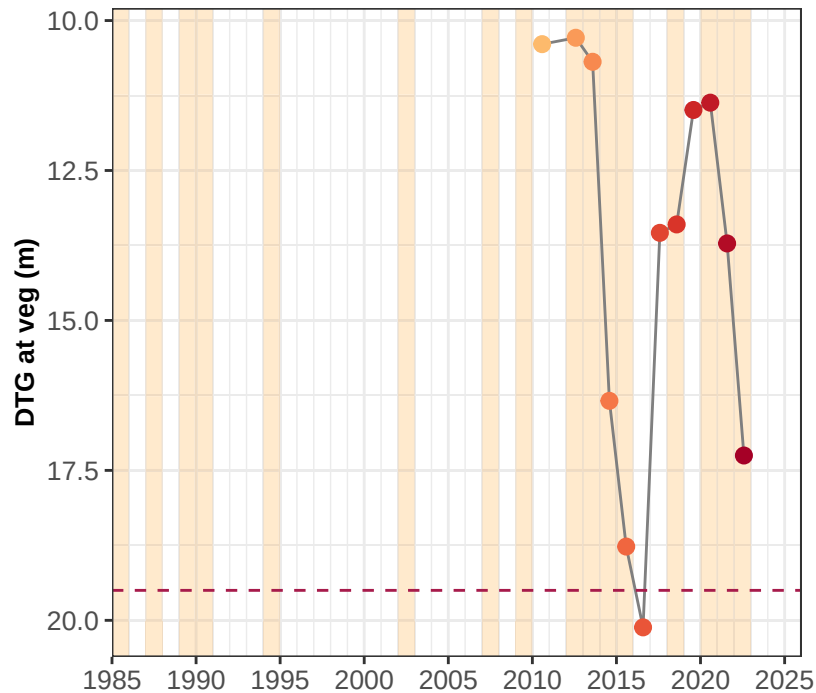


Flooded Veg (gdeID: 36205)

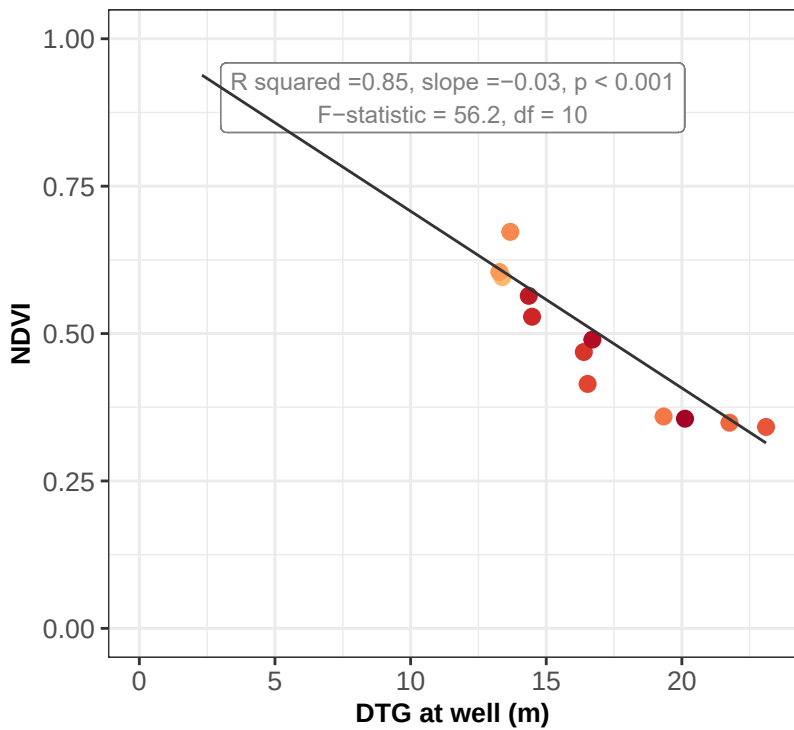
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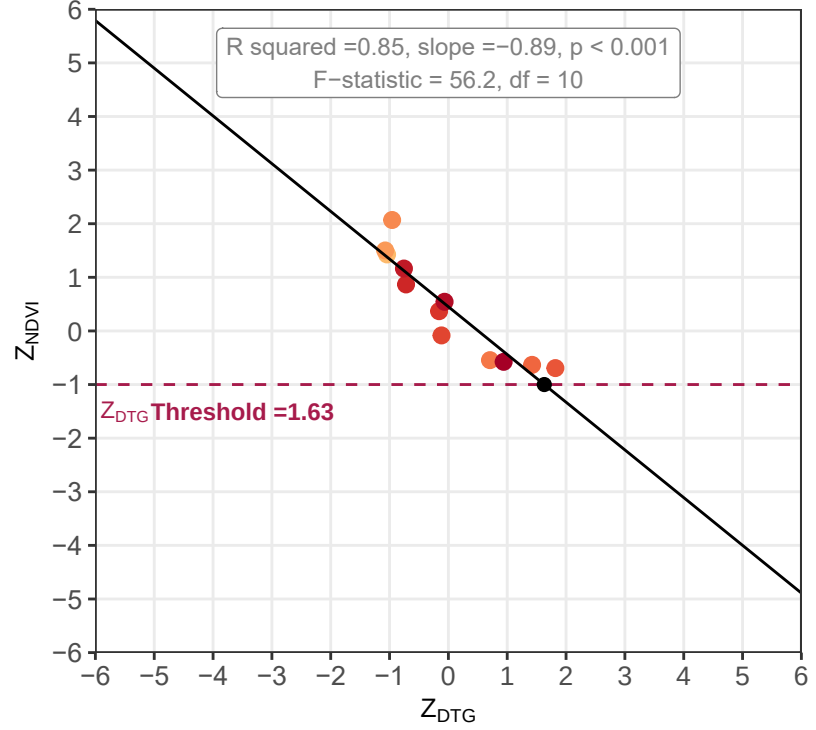
b



c

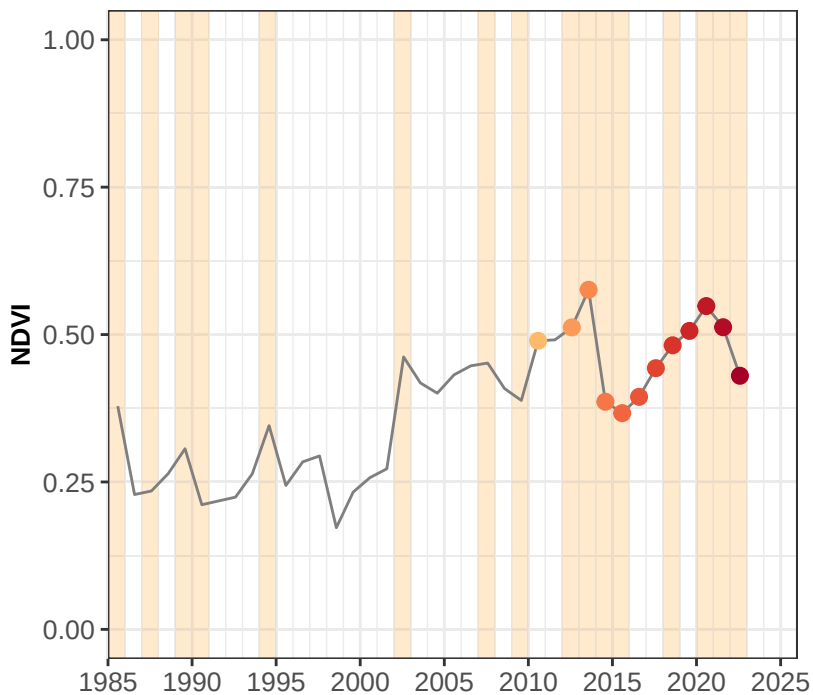


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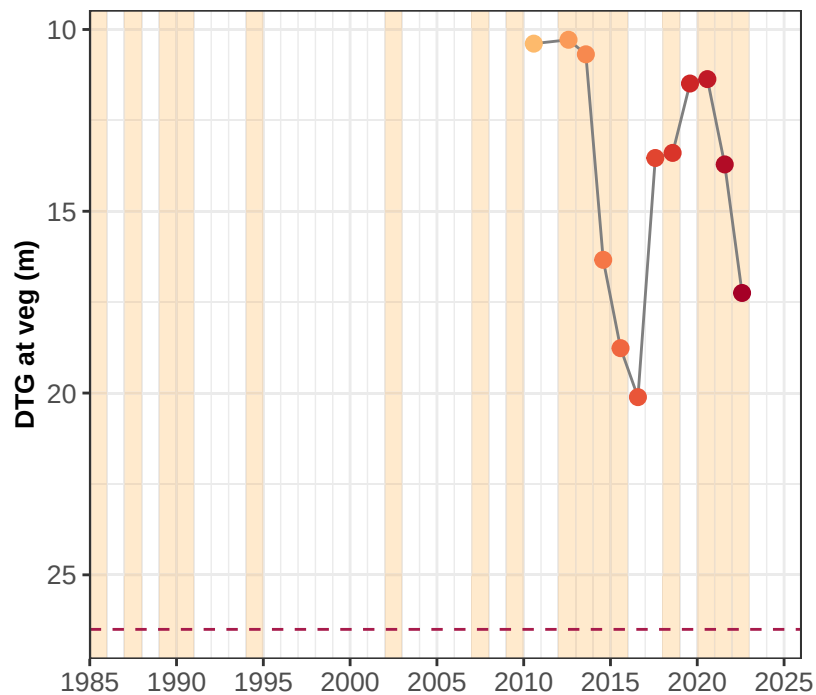


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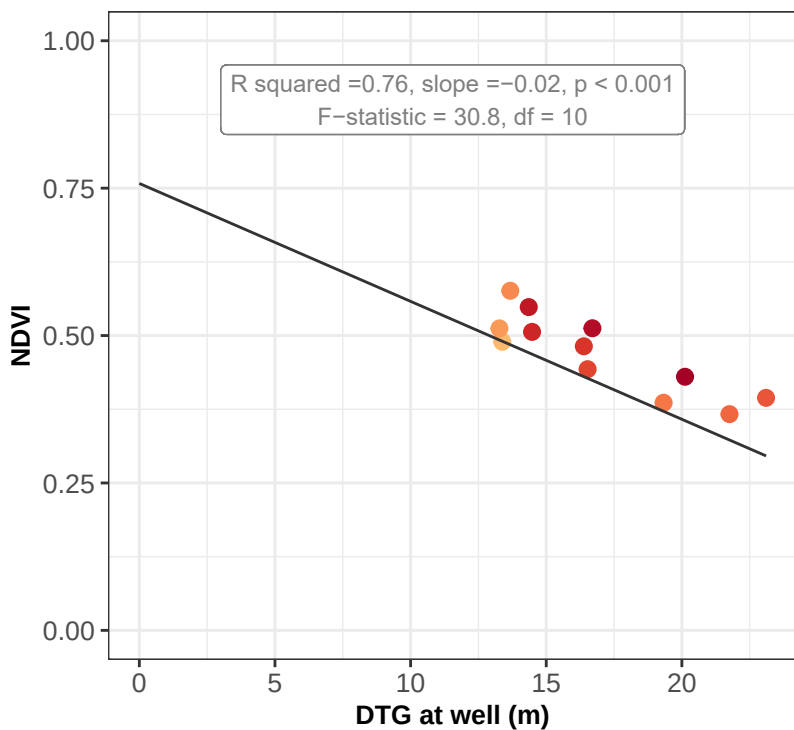
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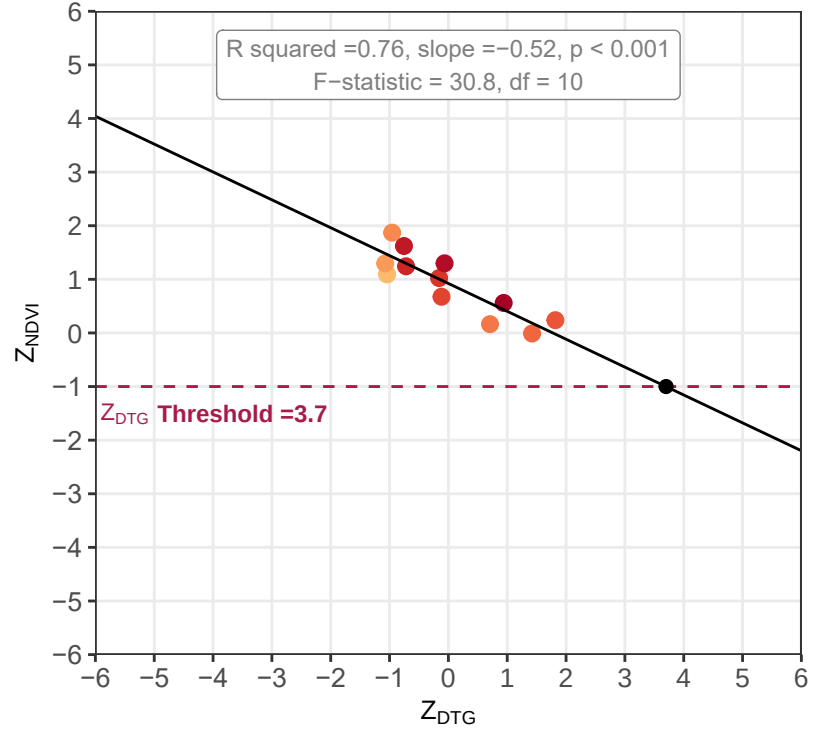
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c

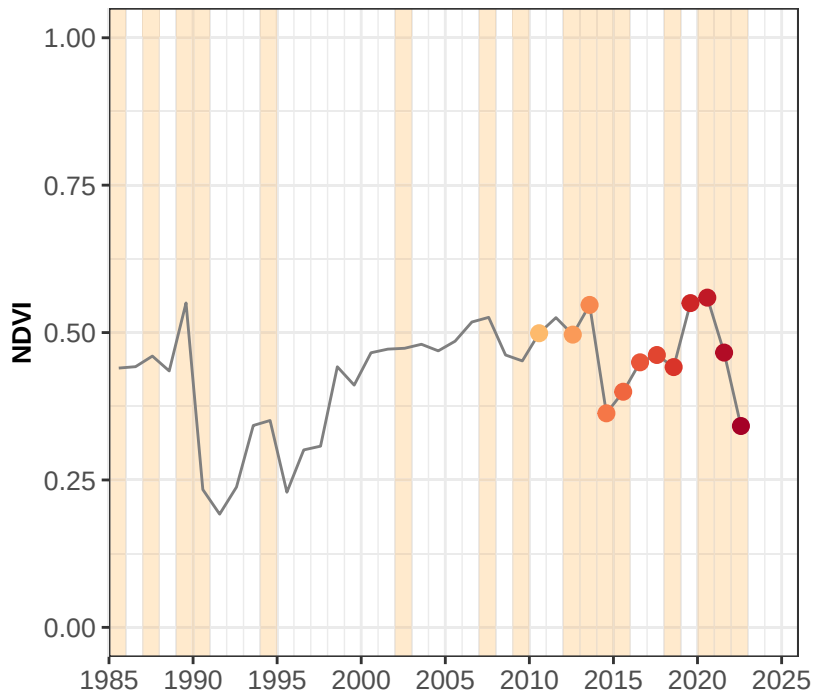


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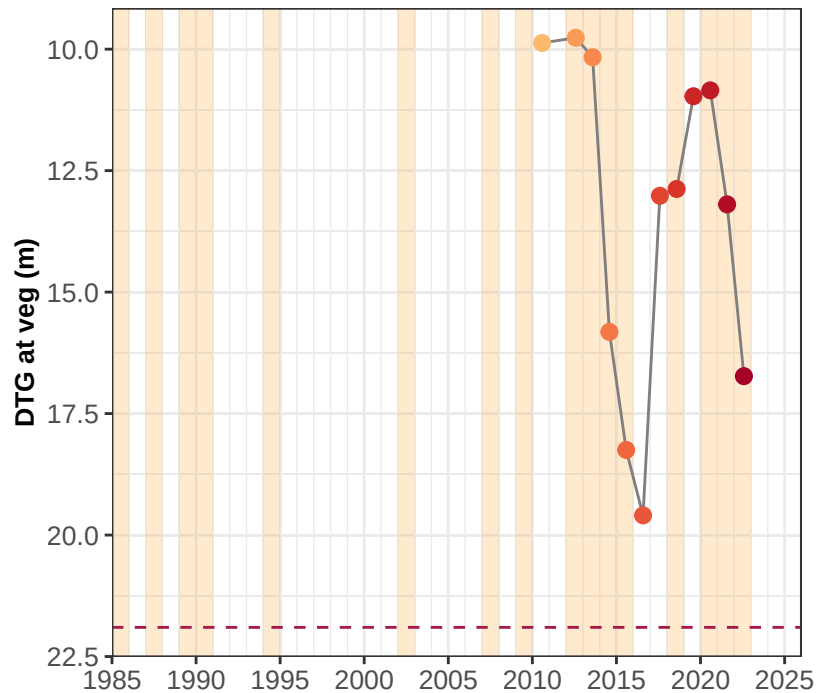


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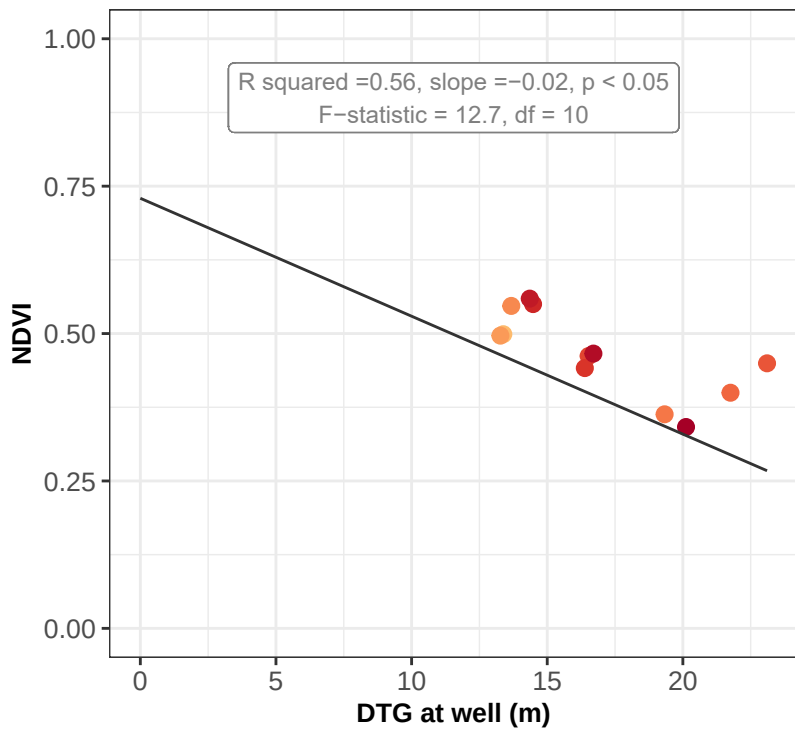
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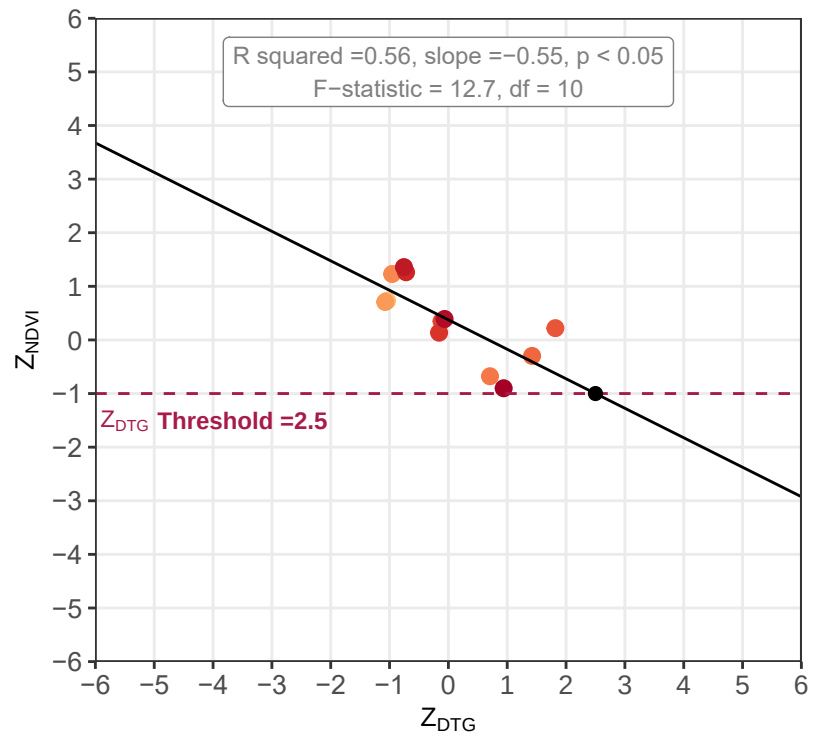
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c

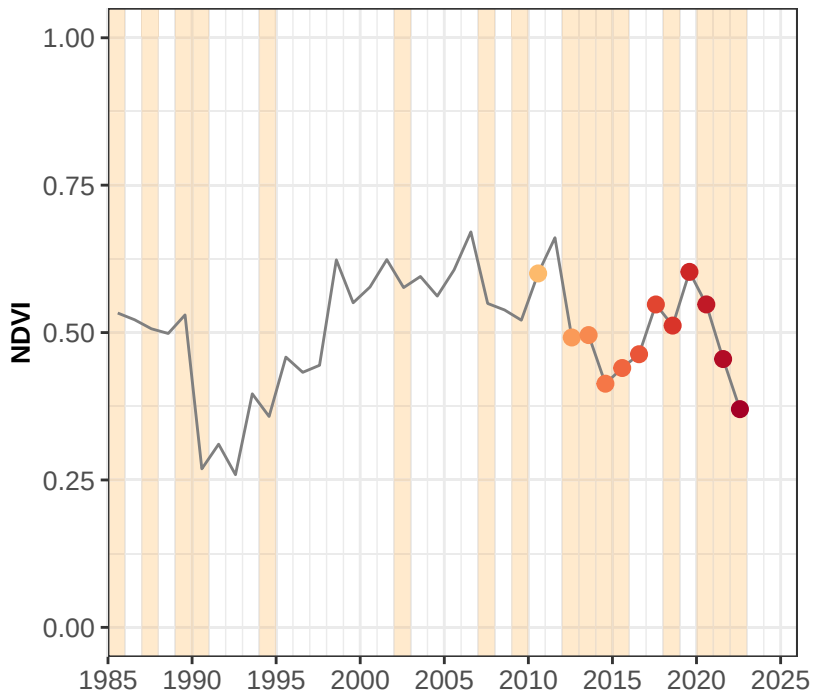


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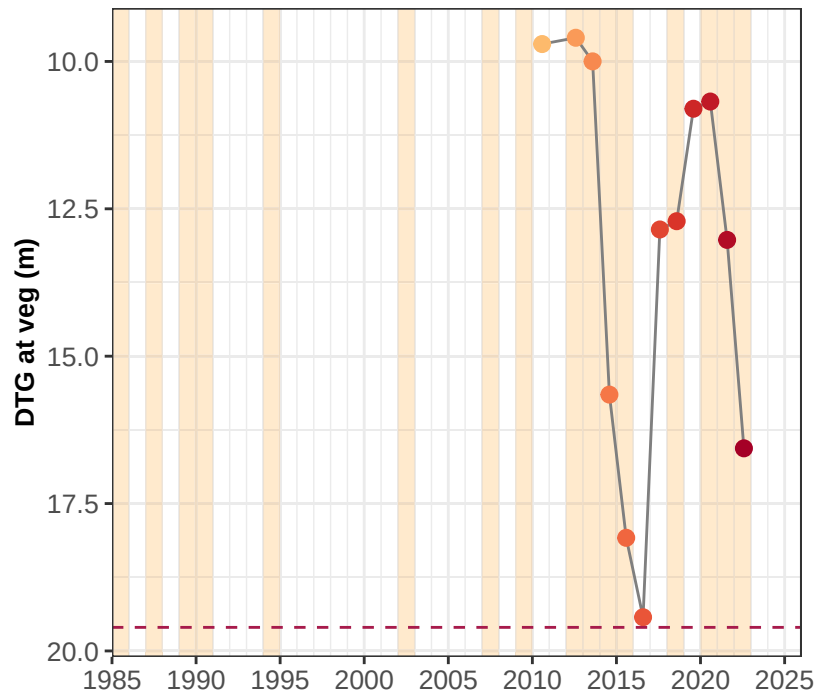


Flooded Veg (gdeID: 36209)

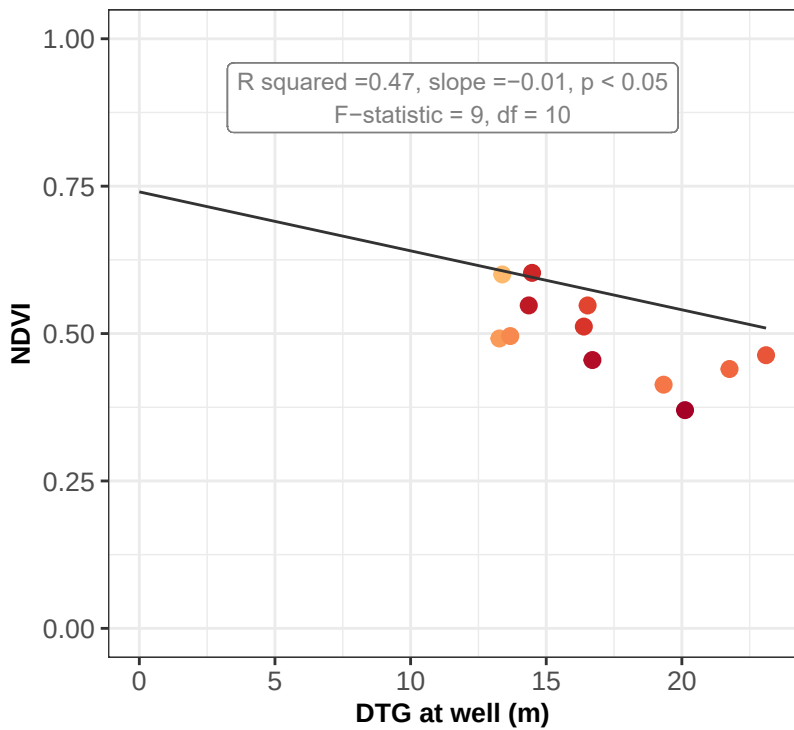
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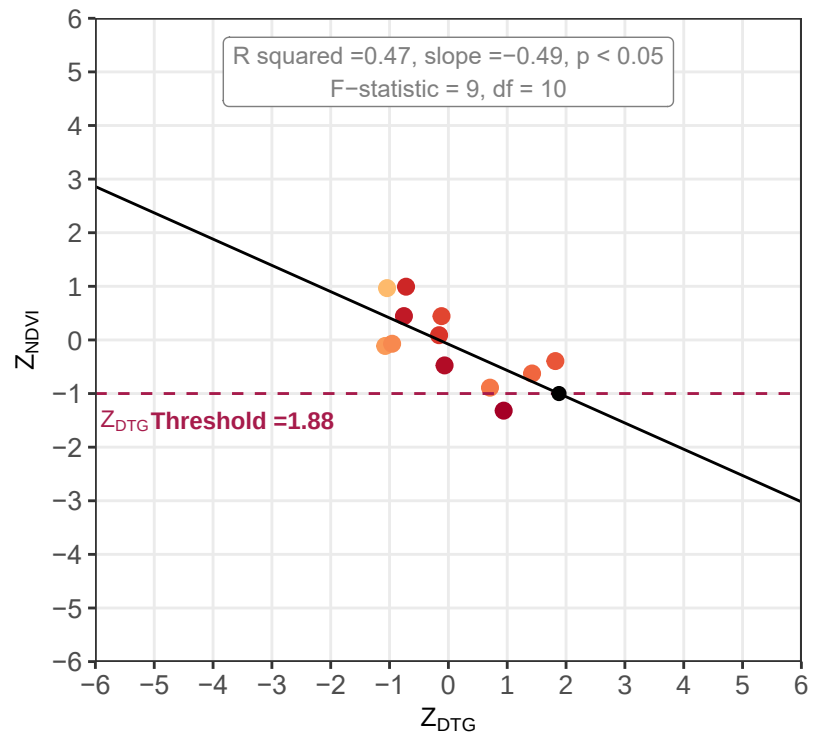
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c

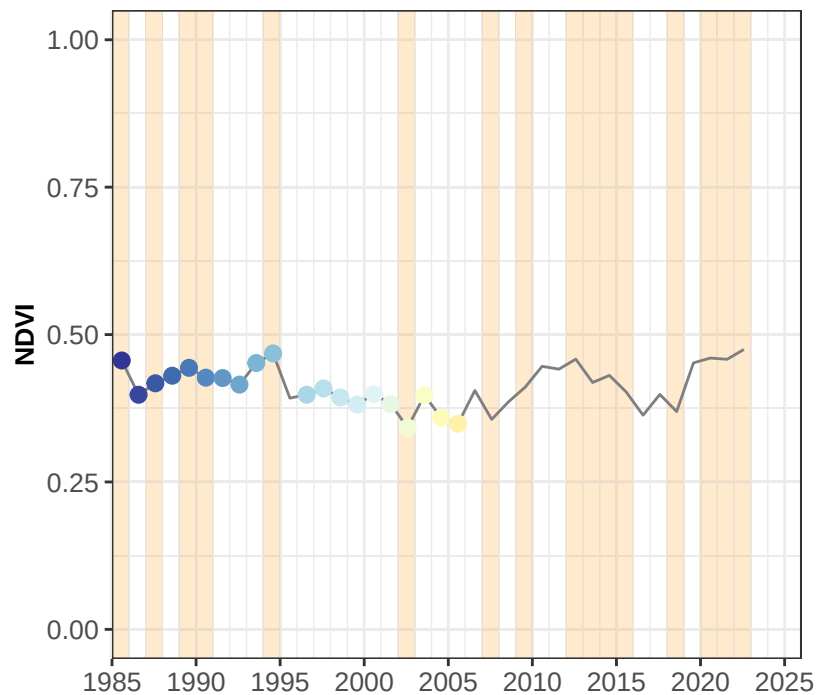


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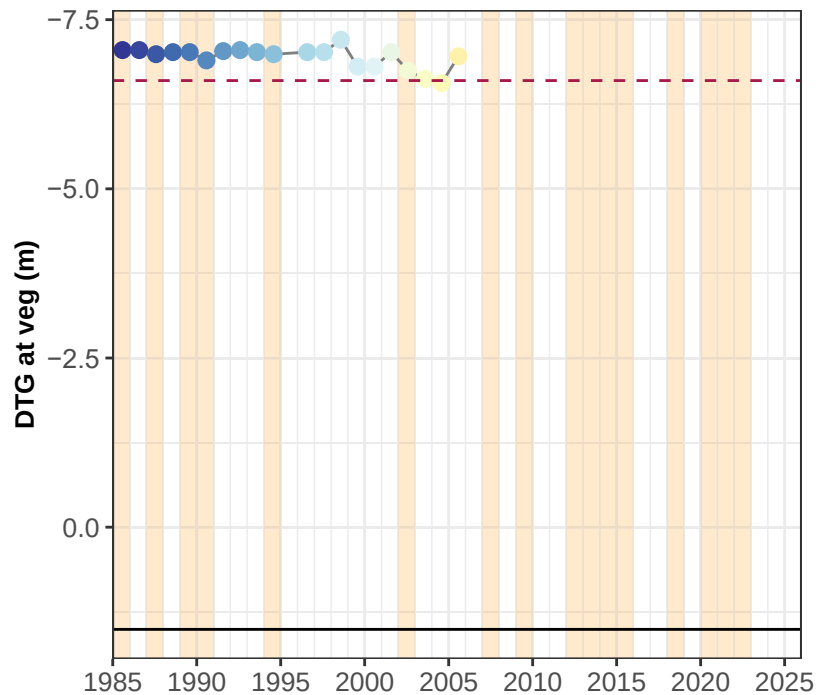


Salix (gdeID: 362954)

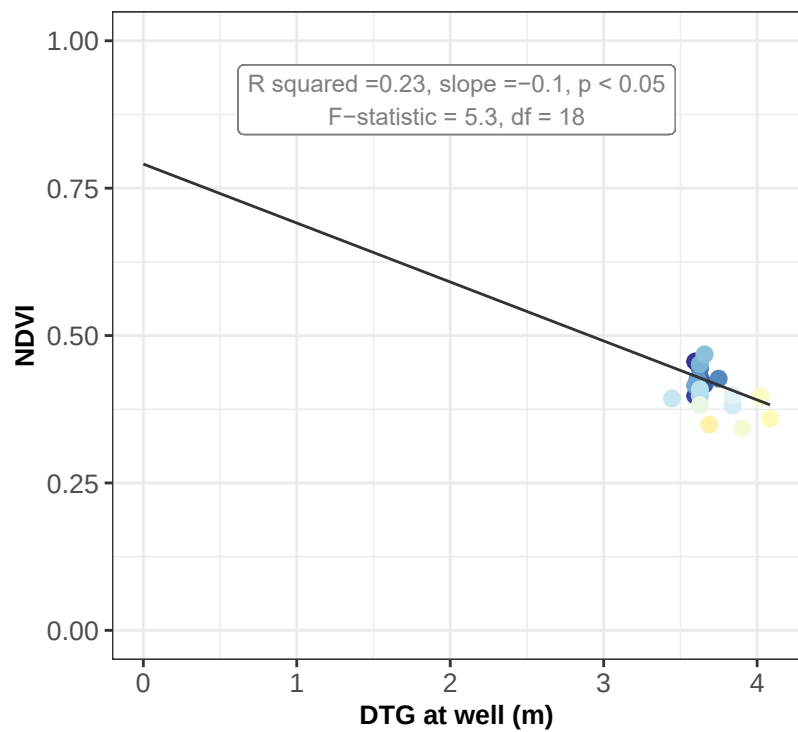
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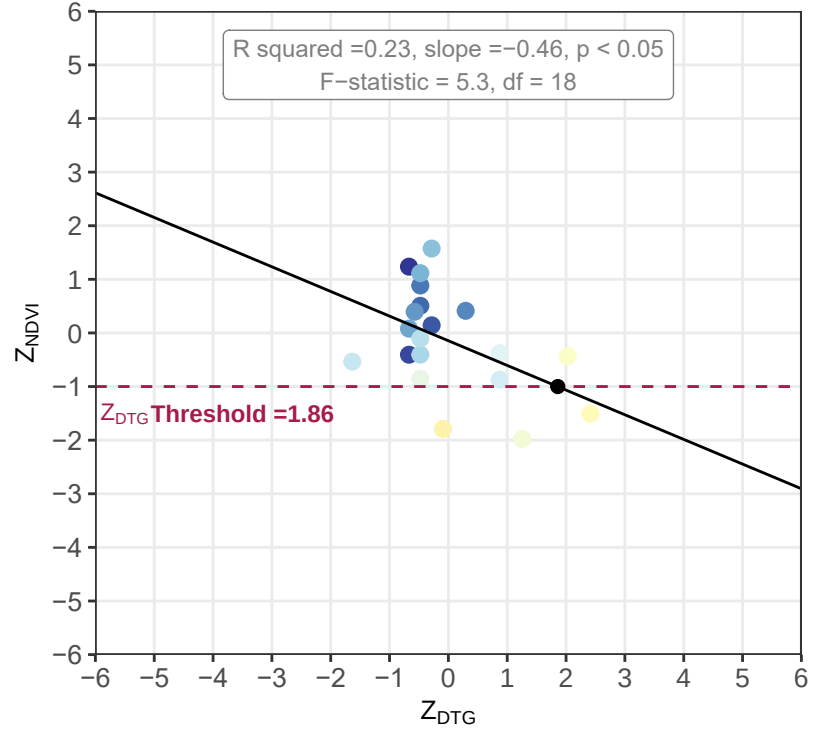
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c

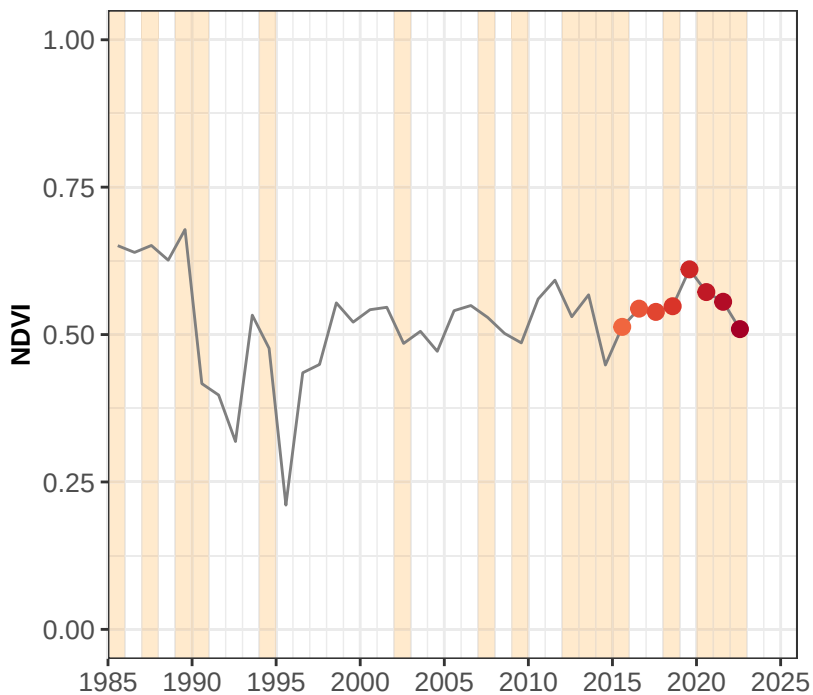


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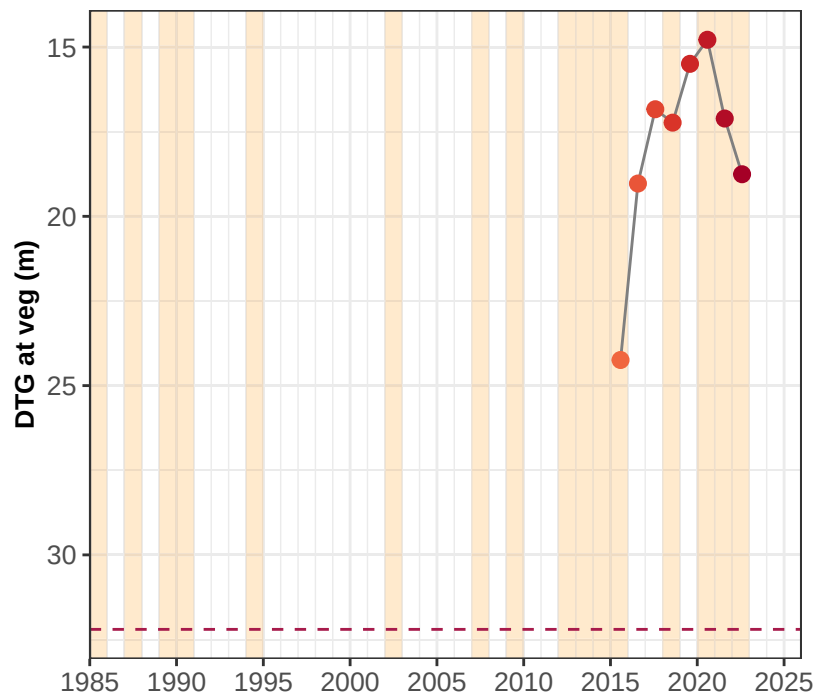


Flooded Veg (gdeID: 36342)

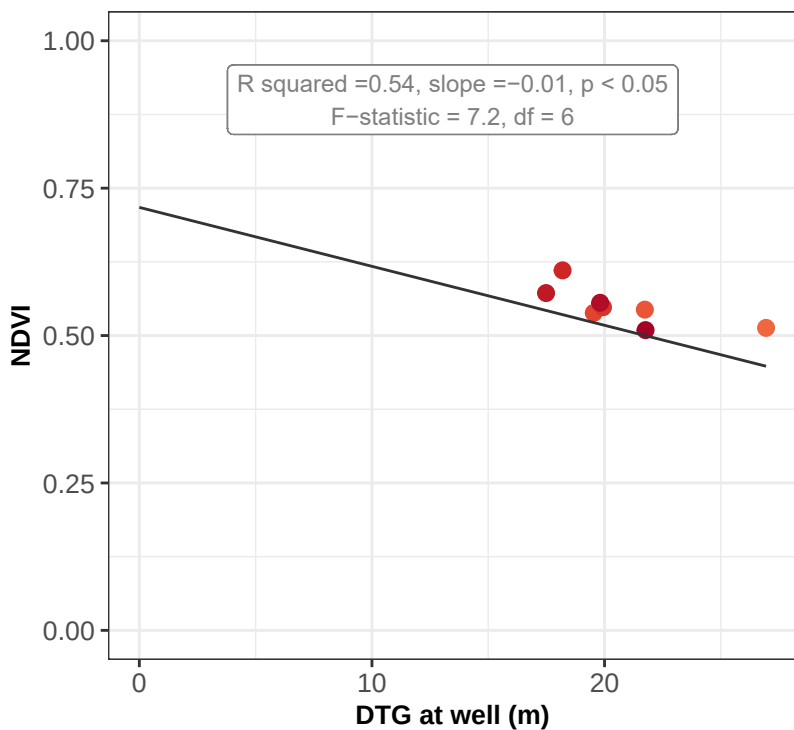
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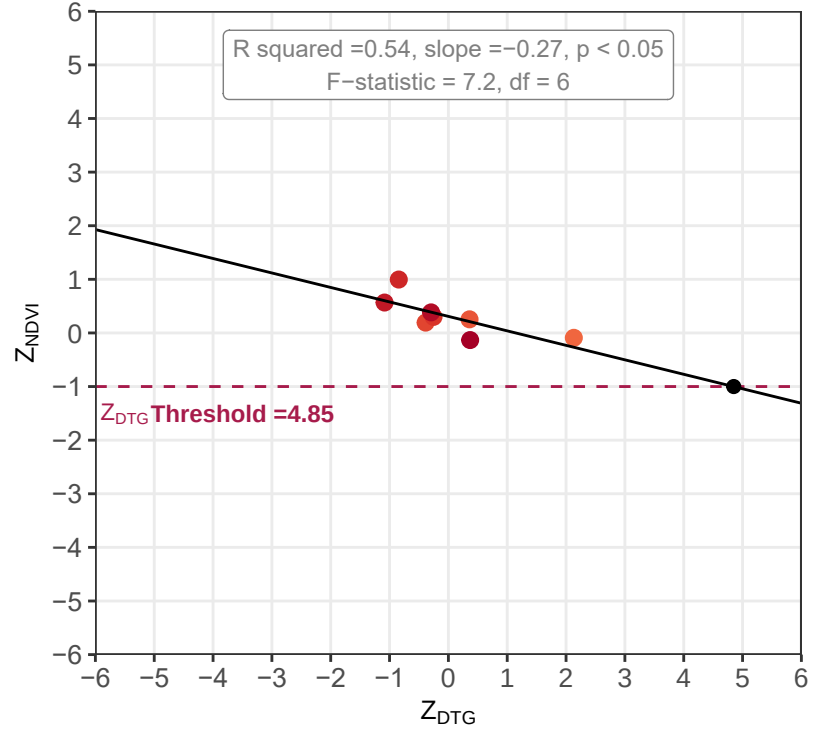
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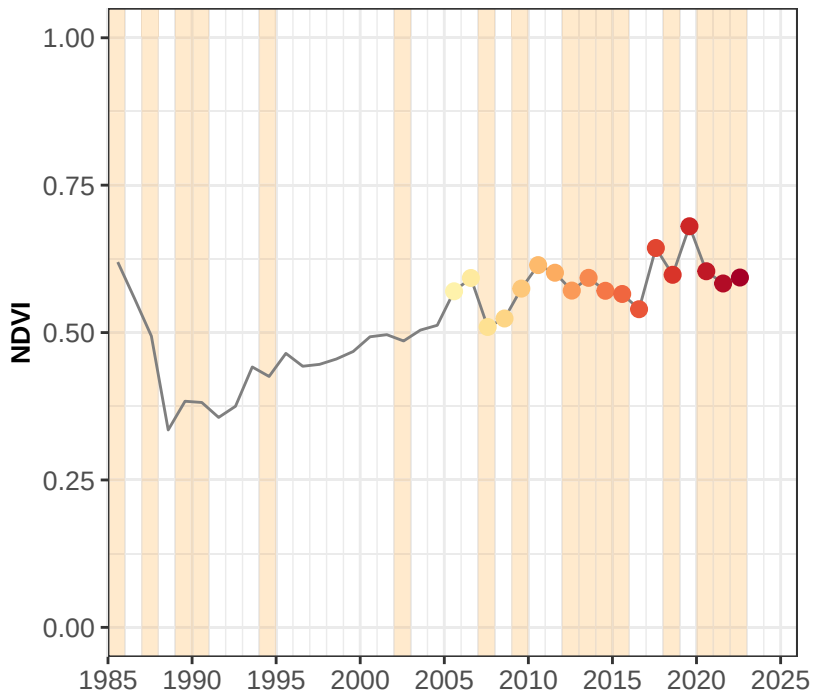


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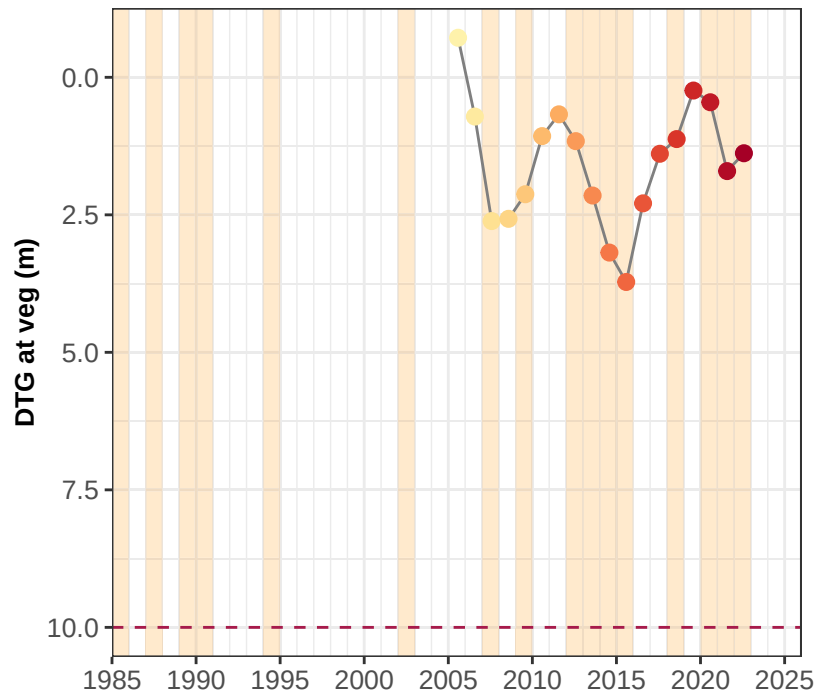


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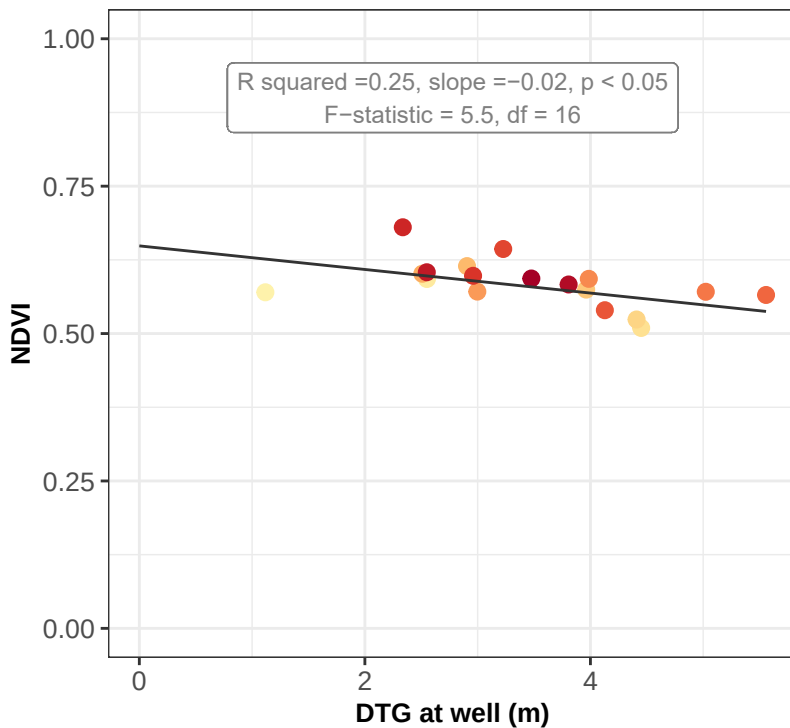
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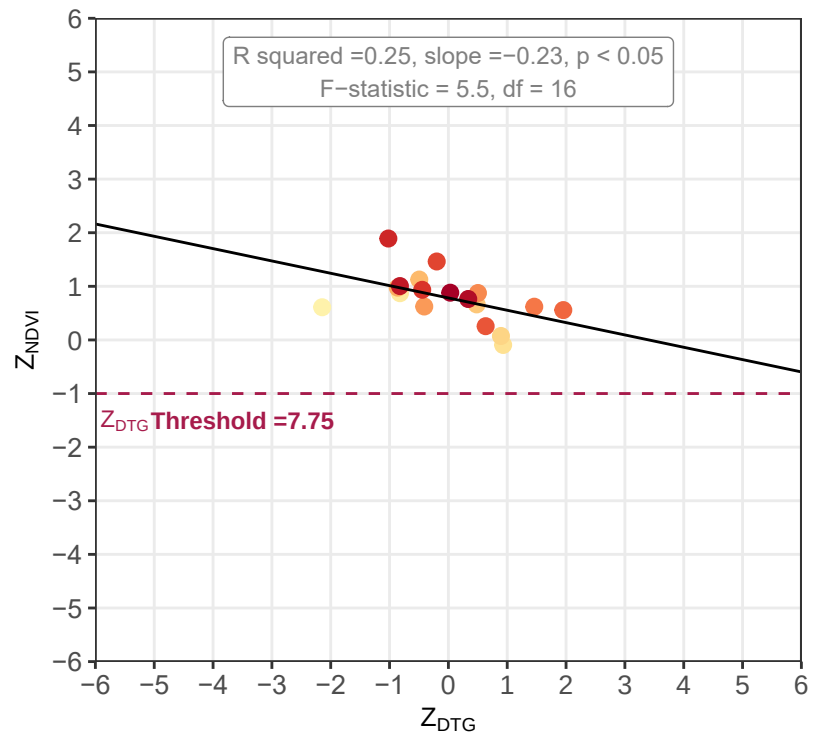
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c

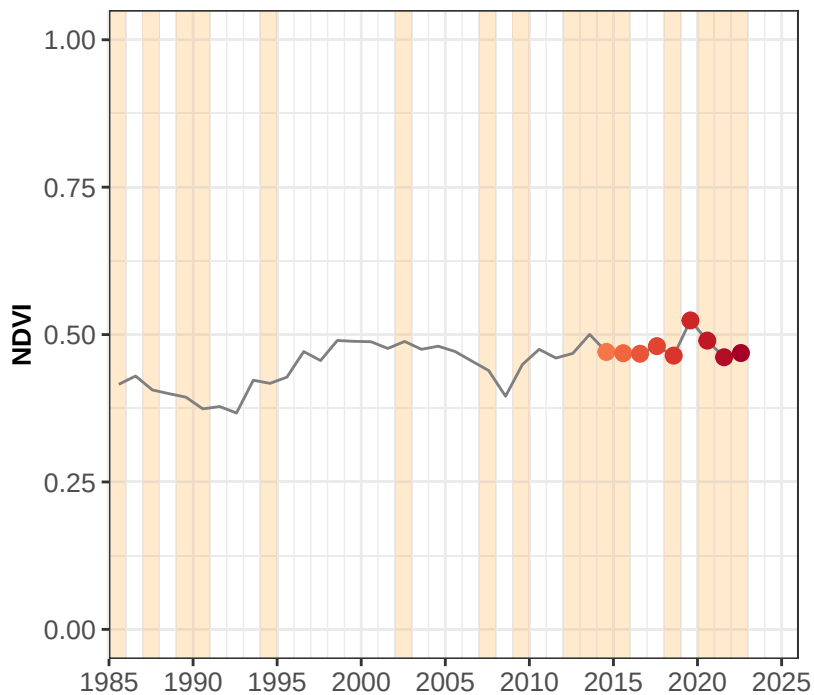


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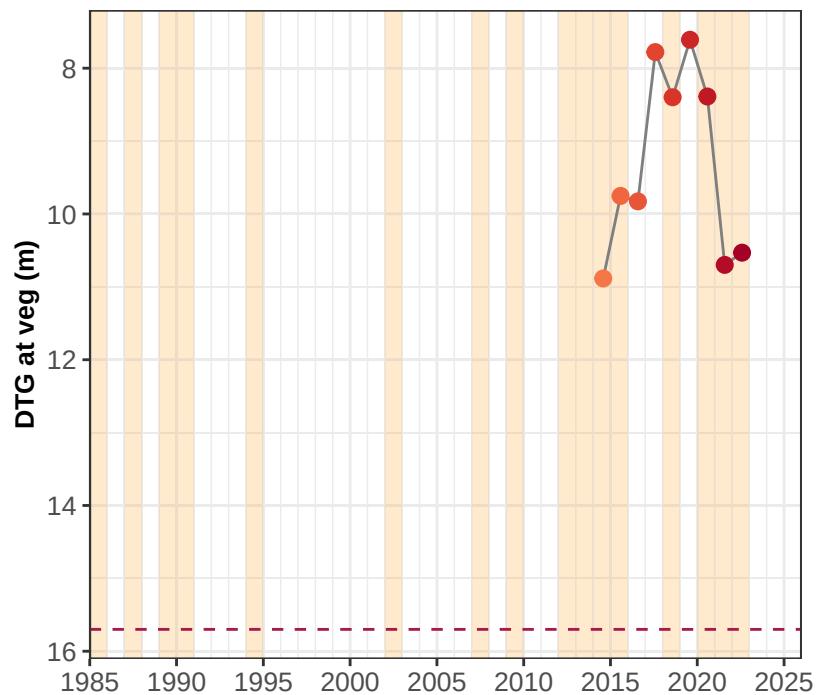


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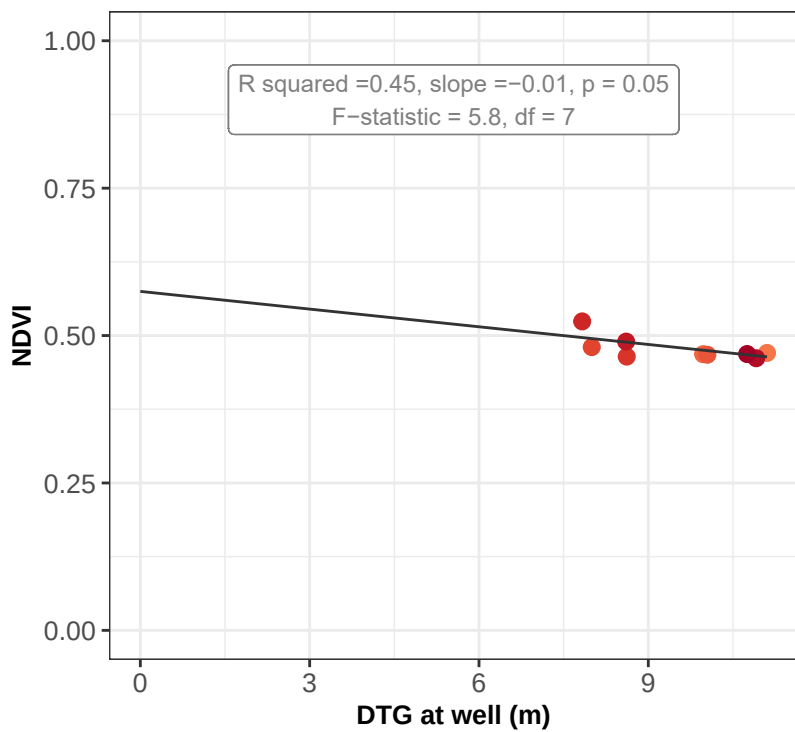
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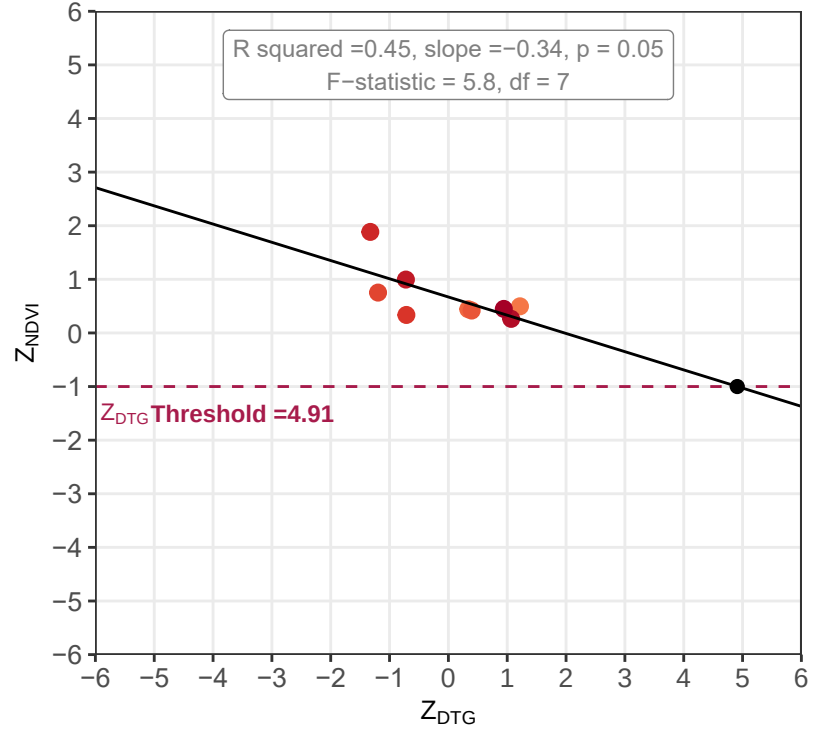
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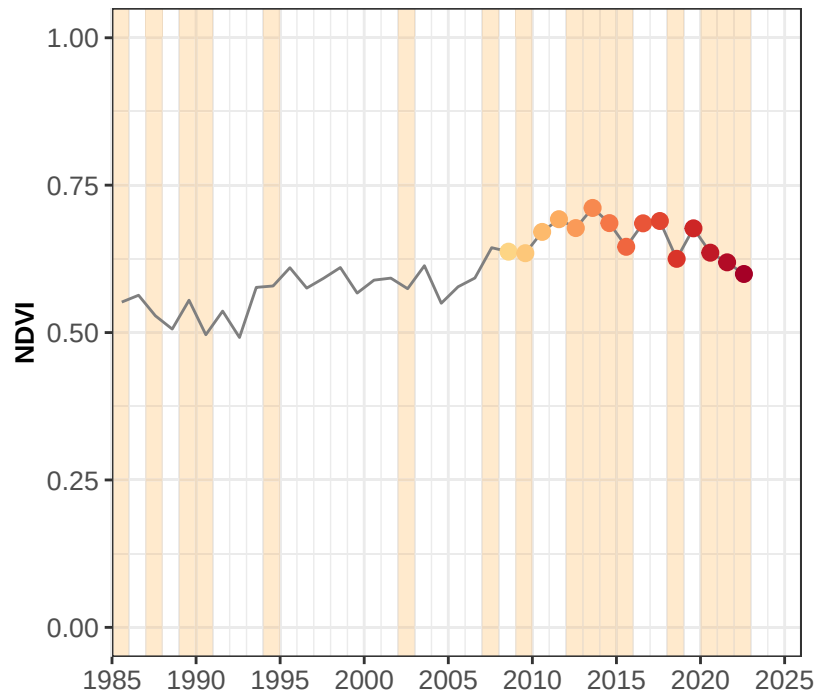


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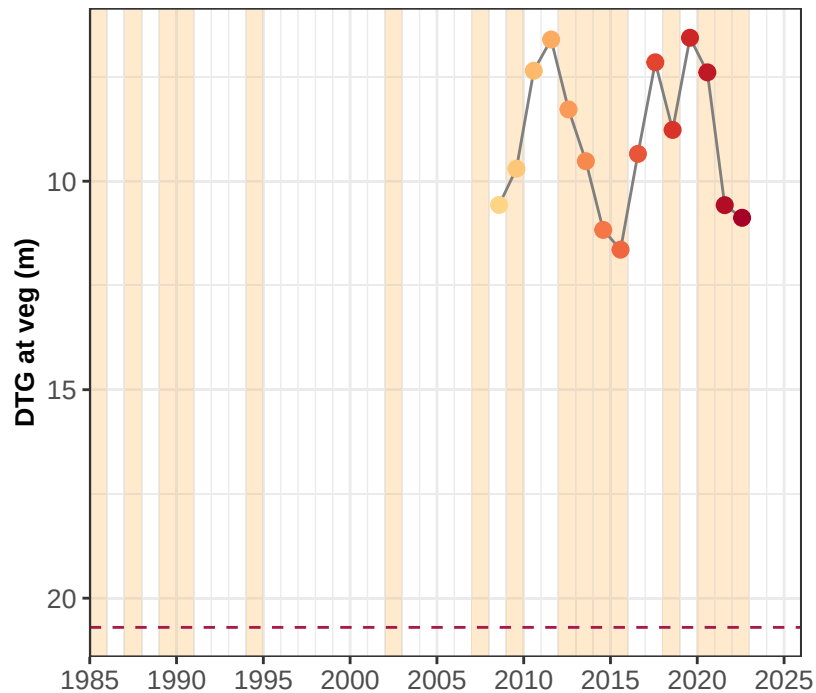


(gdeID: 36795)

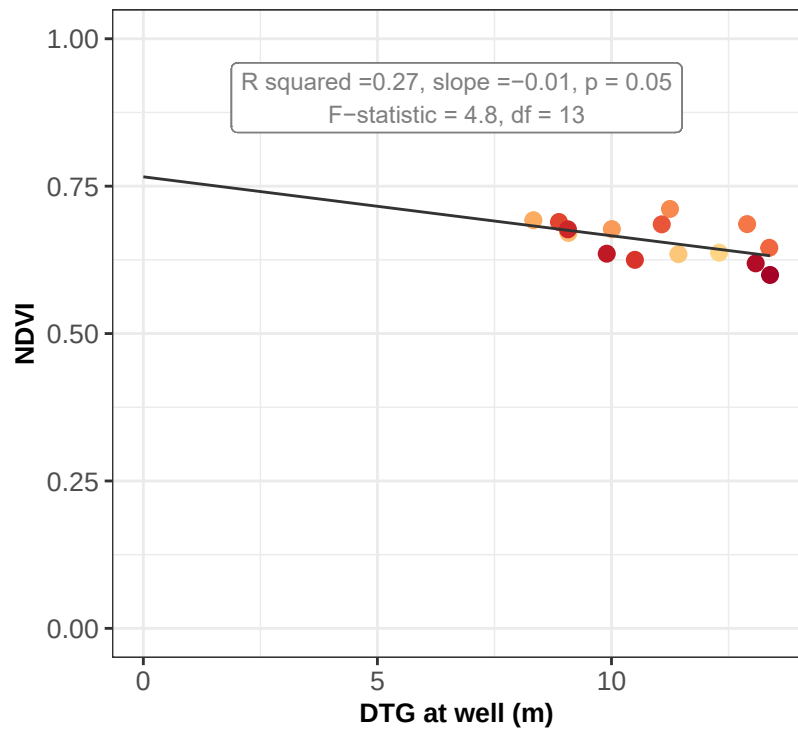
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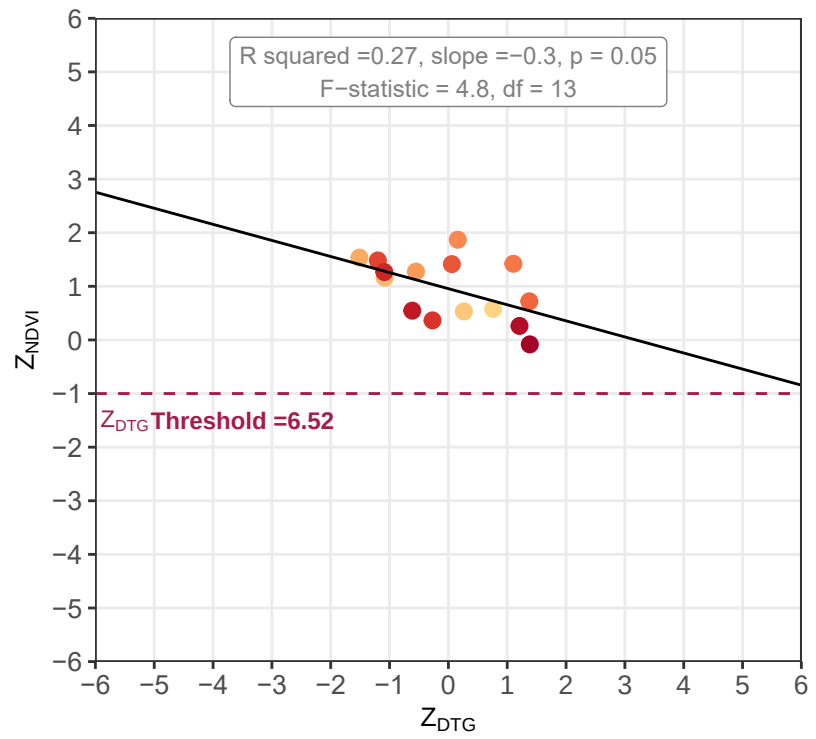
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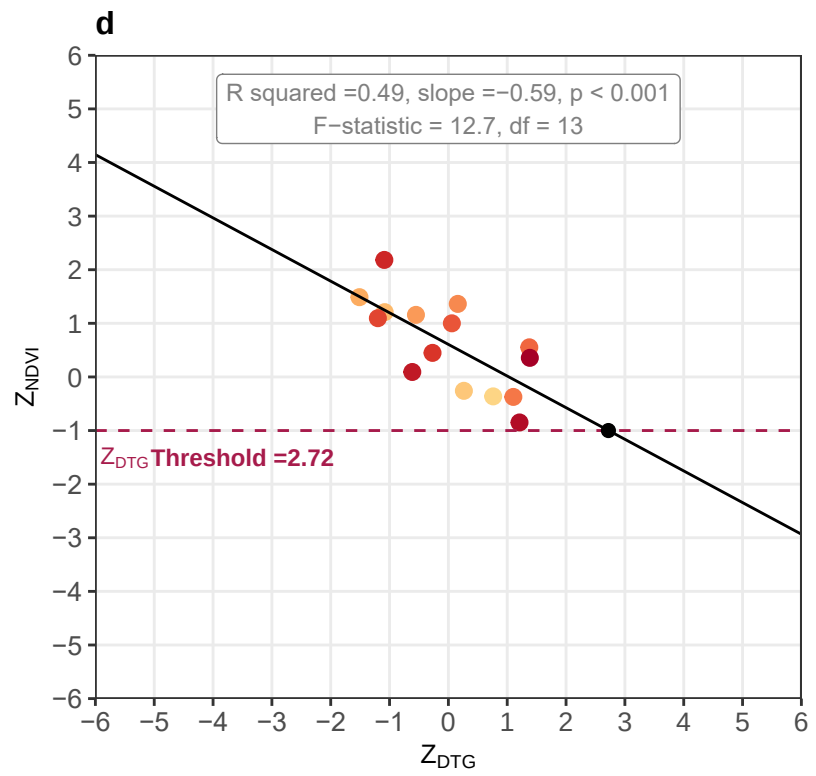
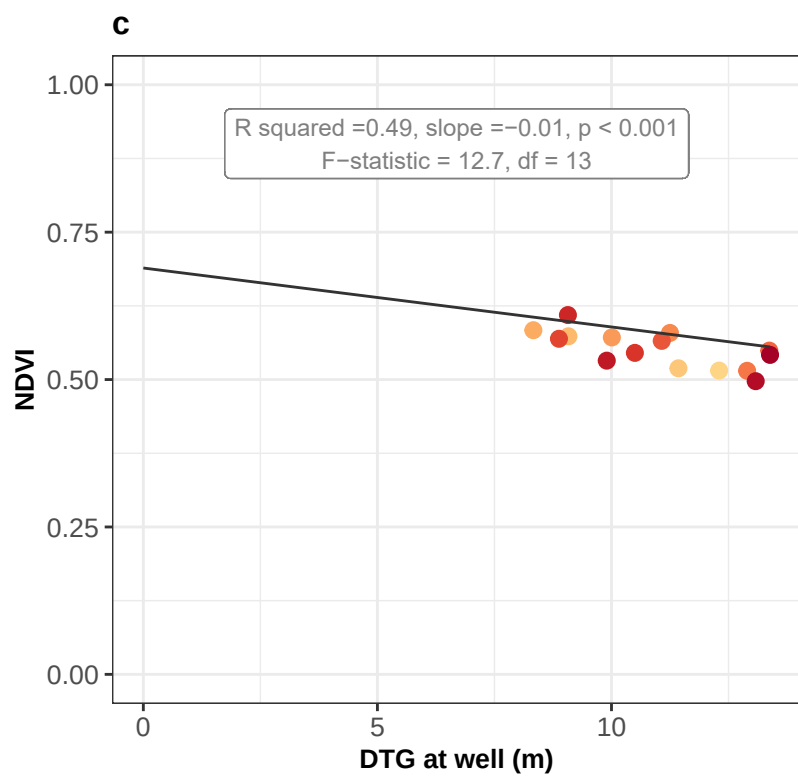
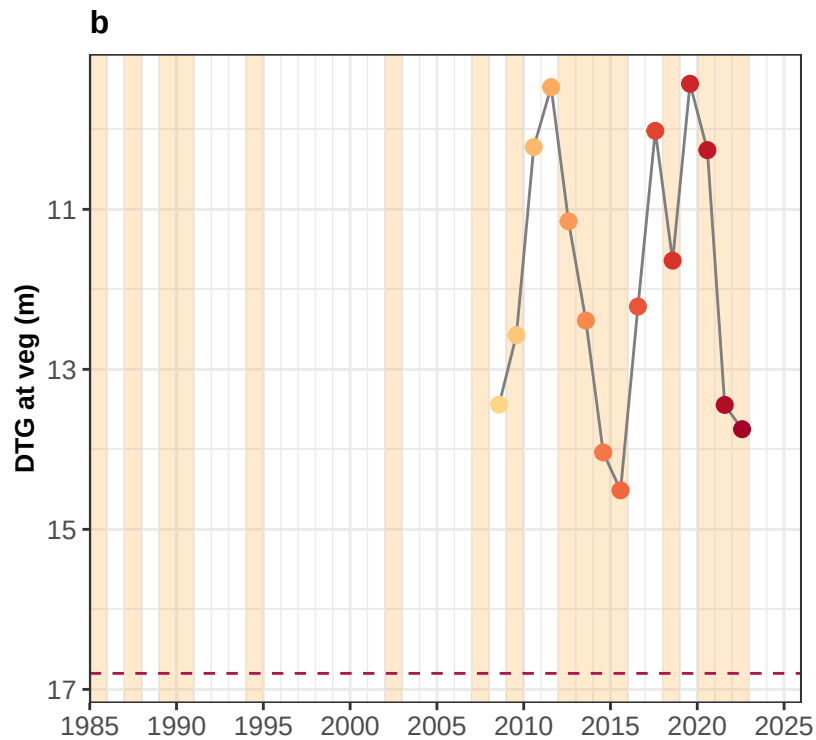
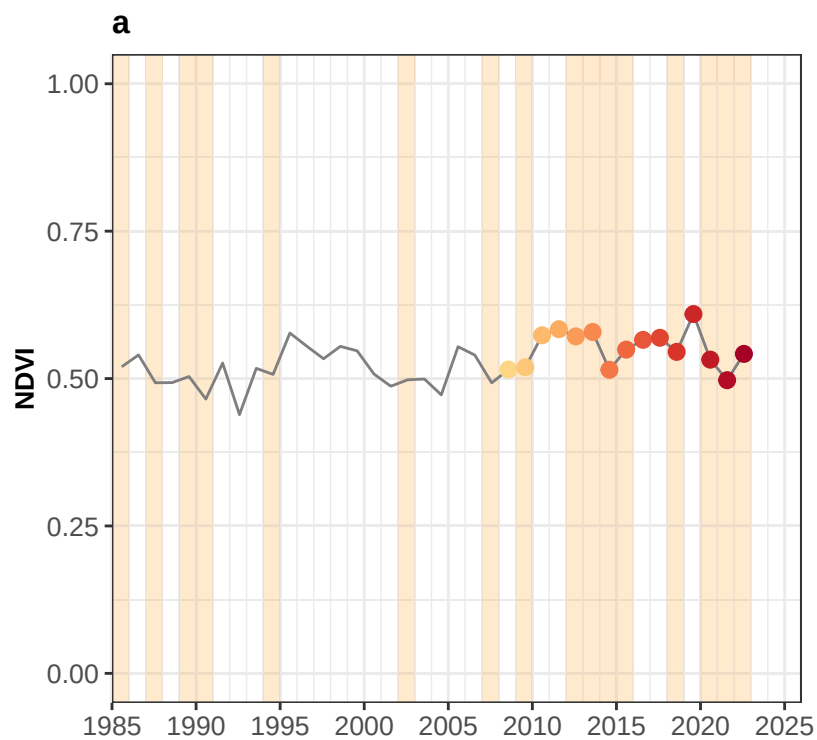
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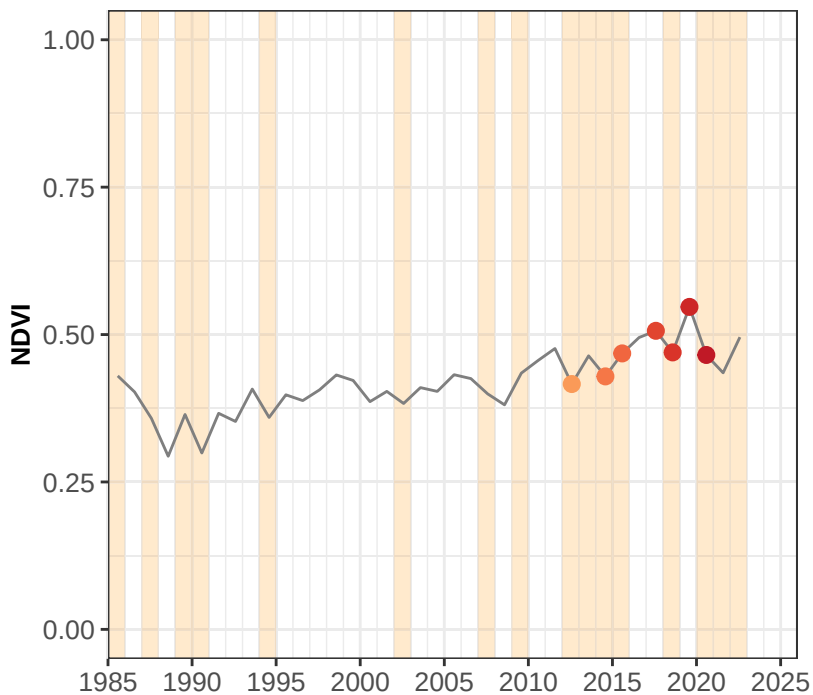


(gdeID: 36797)

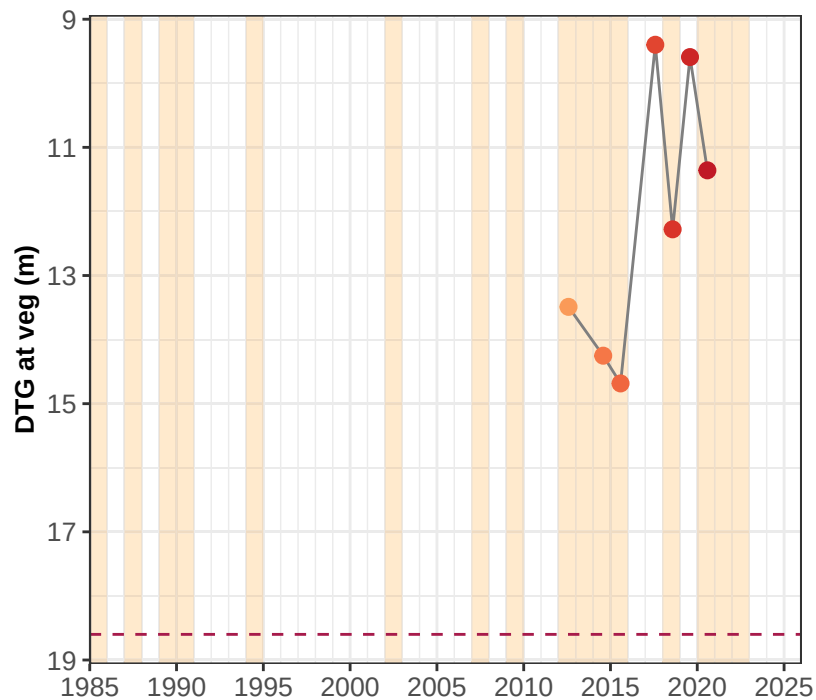


(gdeID: 36816)

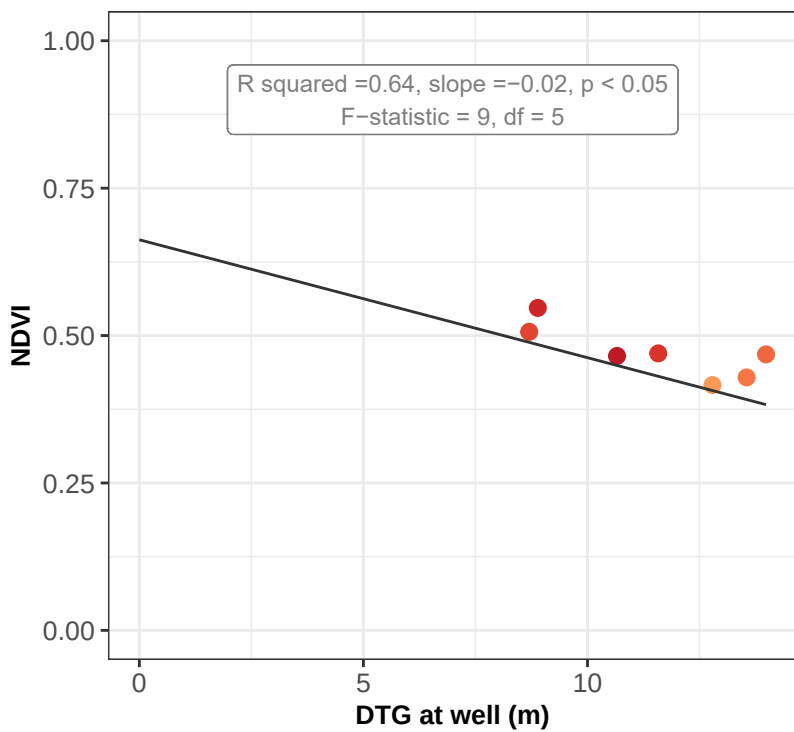
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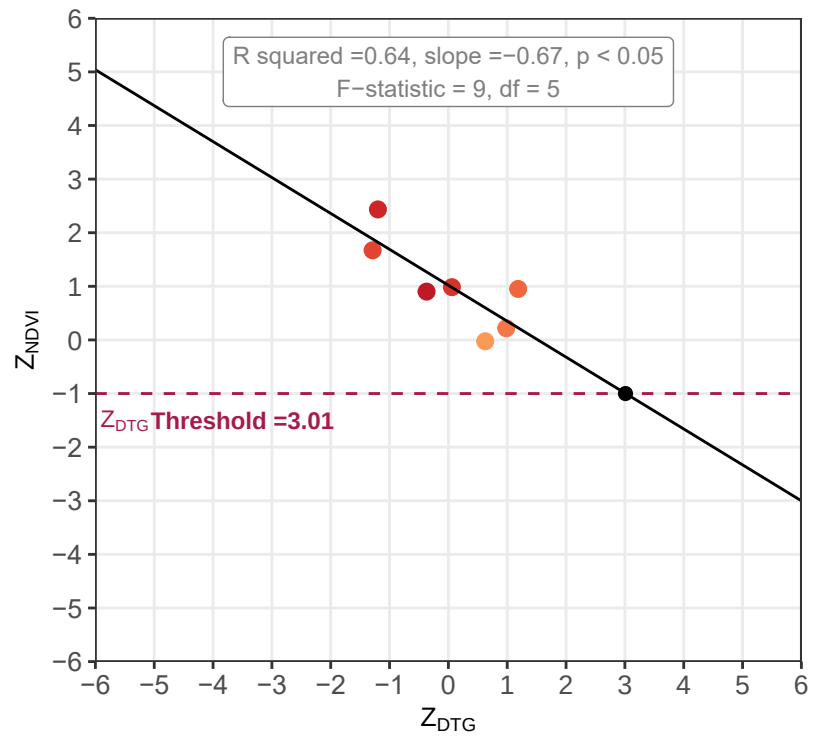
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c

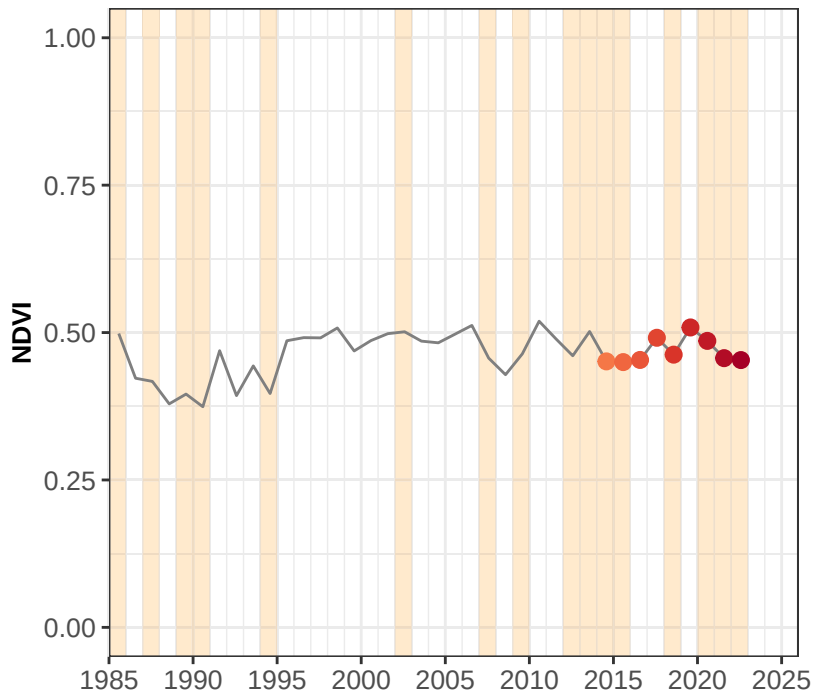


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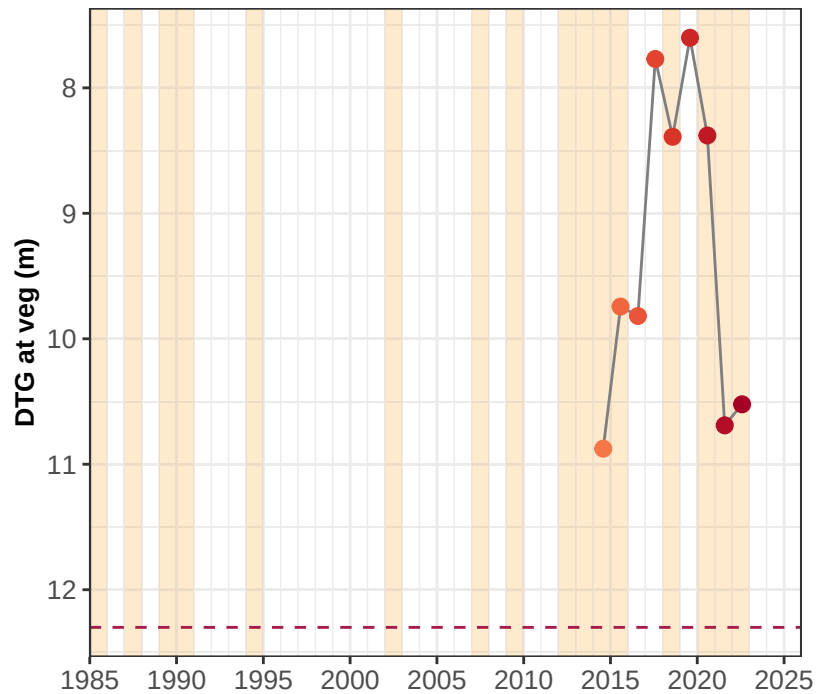


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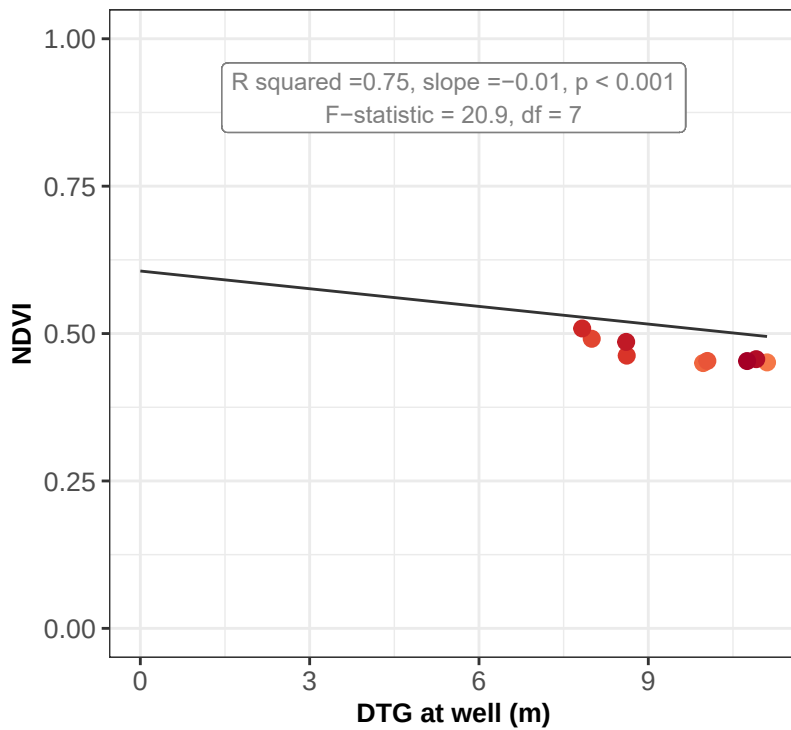
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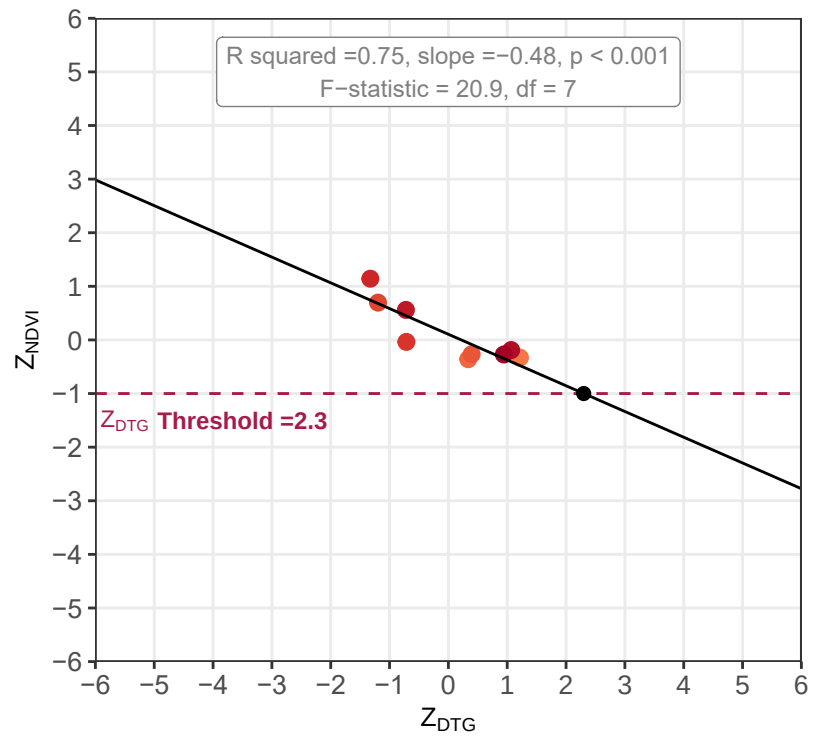
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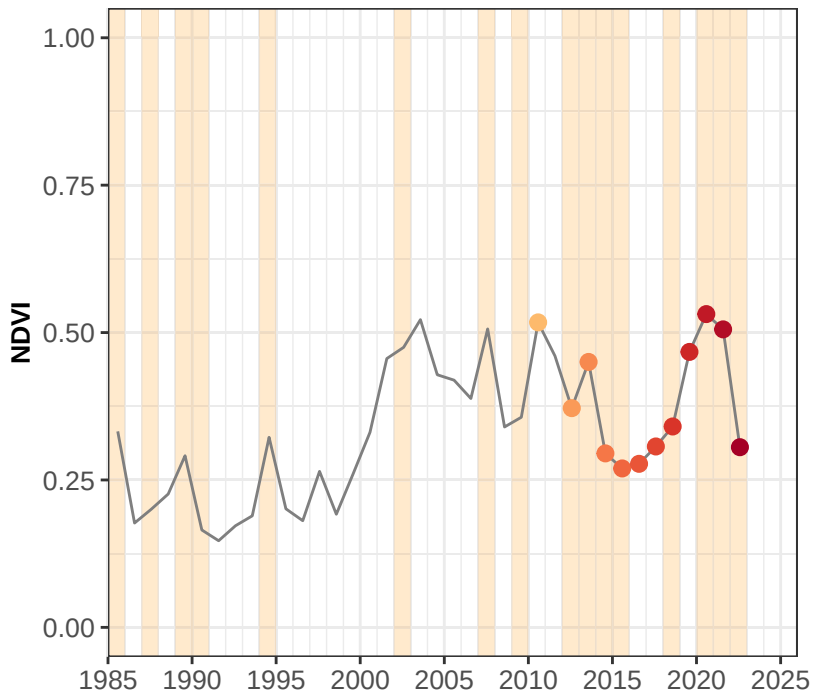


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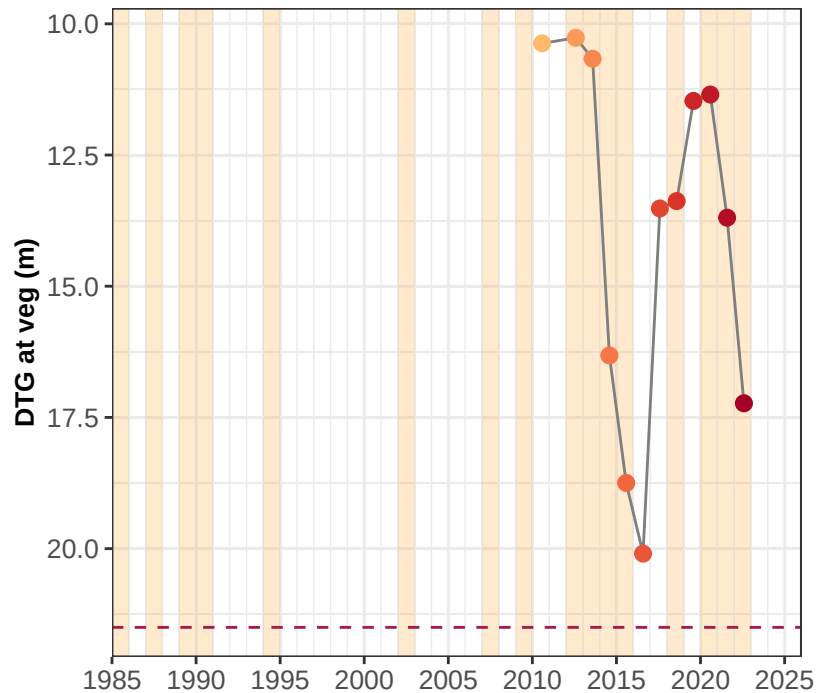


Flooded Veg (gdeID: 37292)

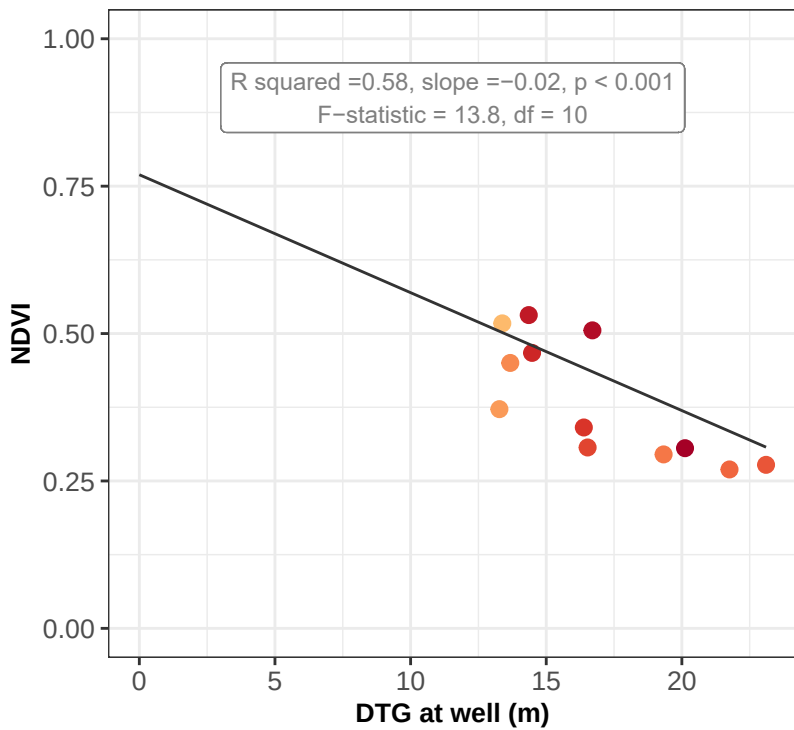
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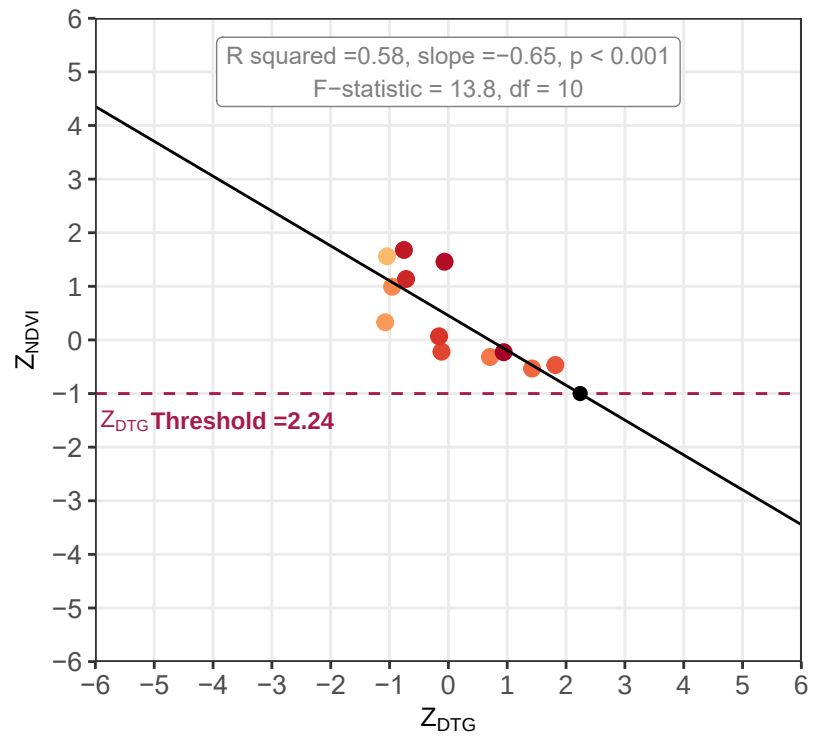
b



c

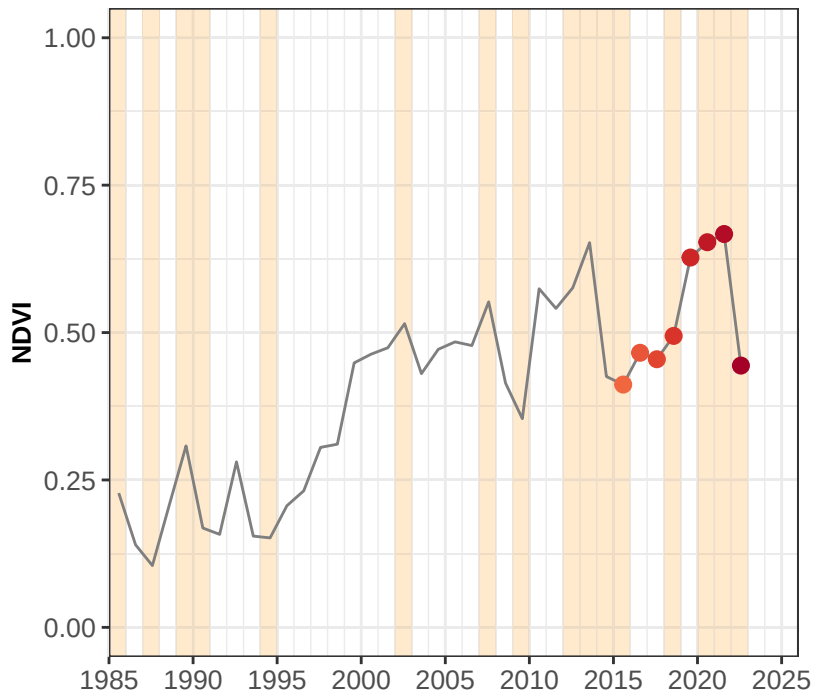


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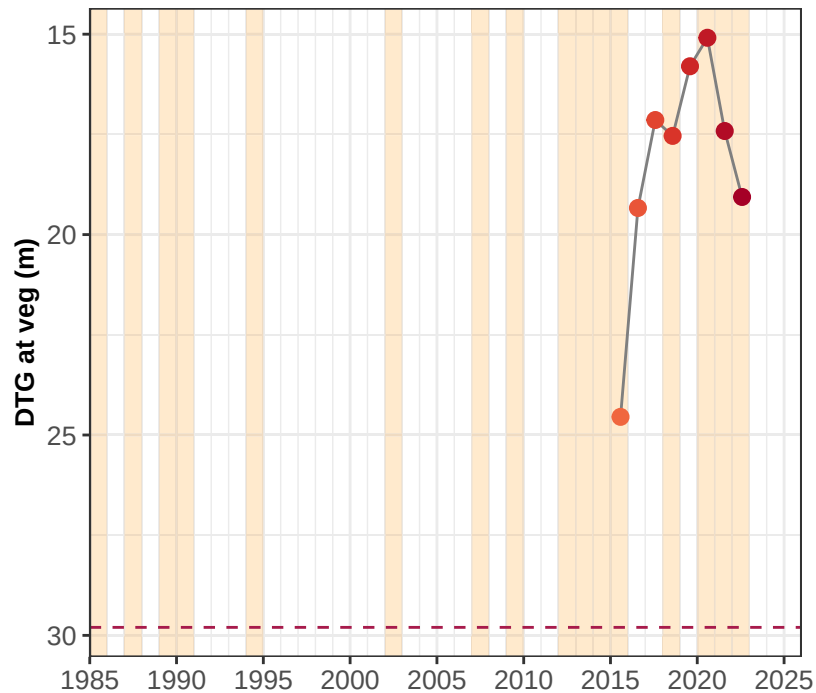


Flooded Veg (gdeID: 37328)

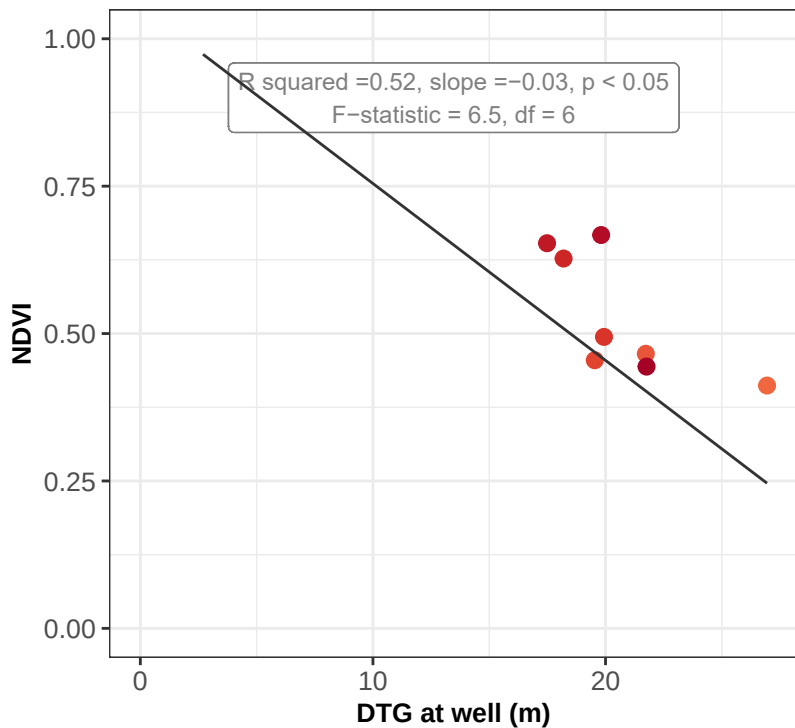
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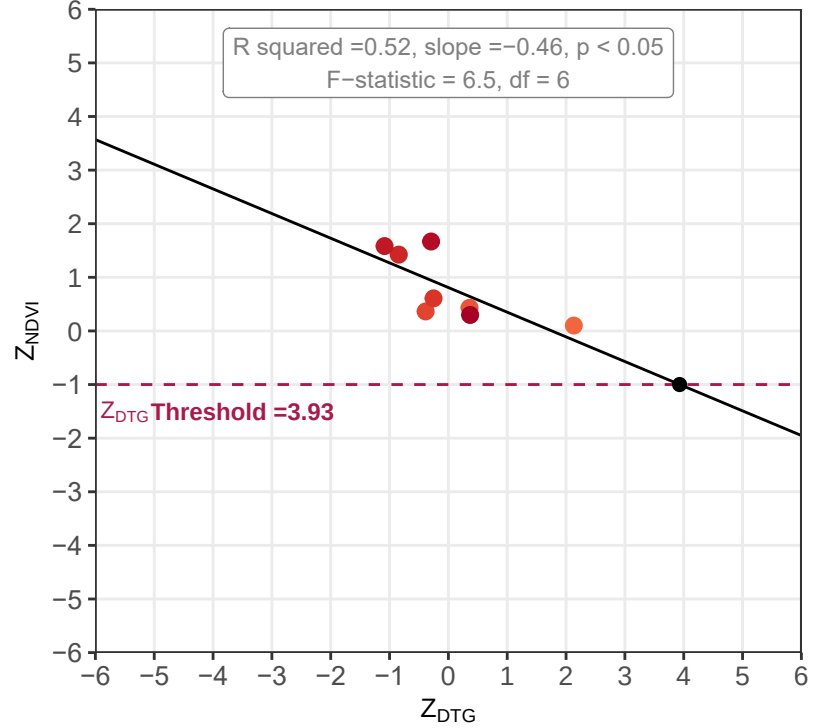
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c

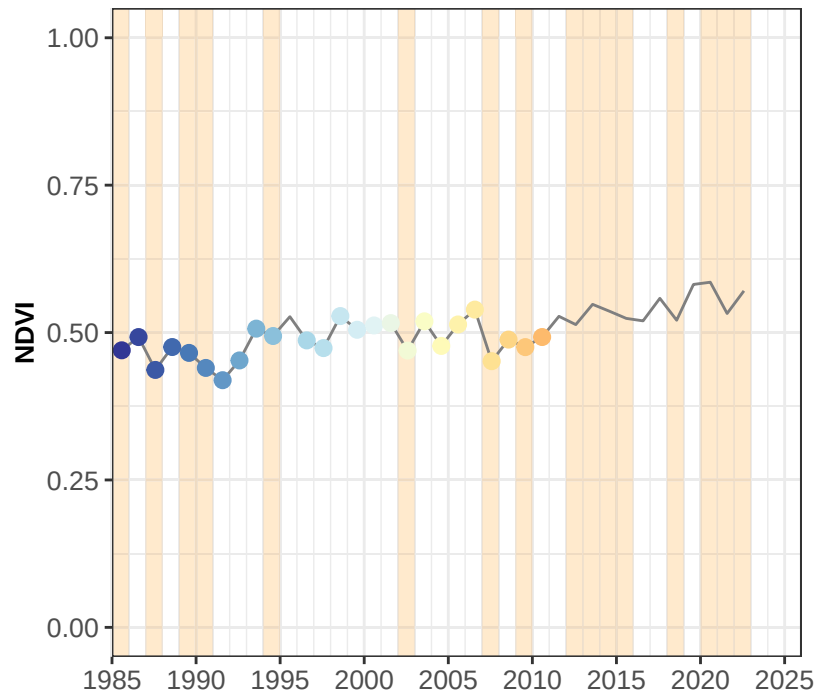


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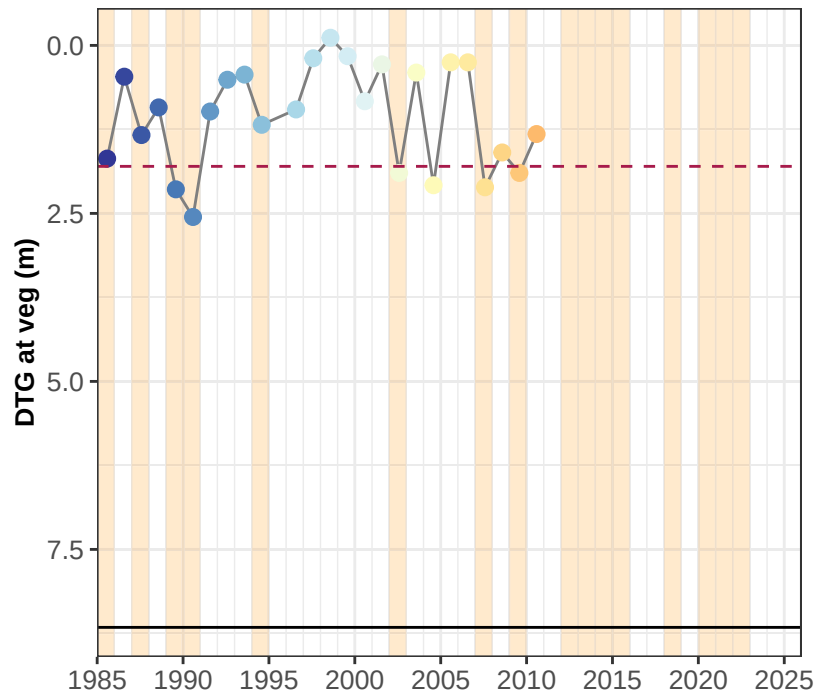


Quercus (gdeID: 375100)

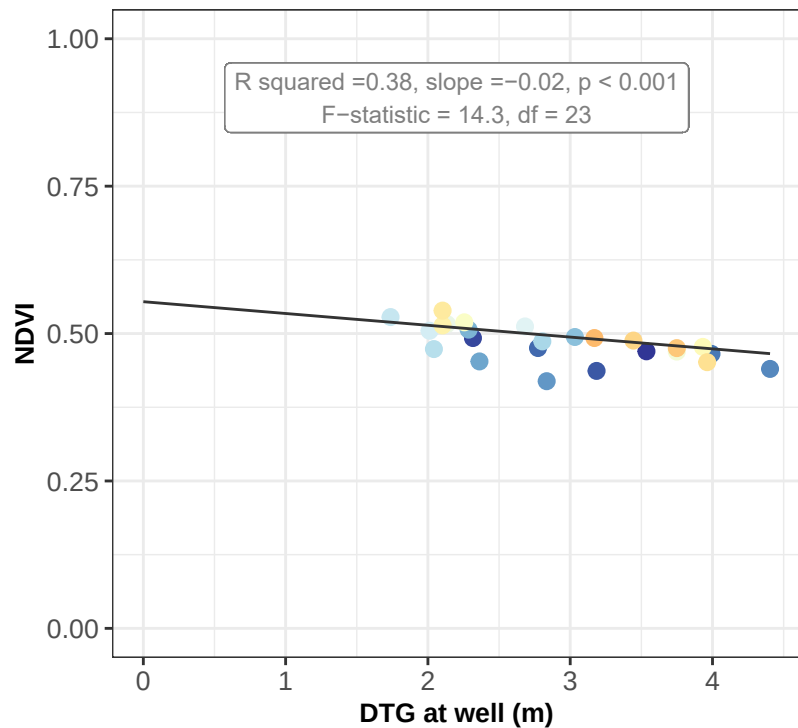
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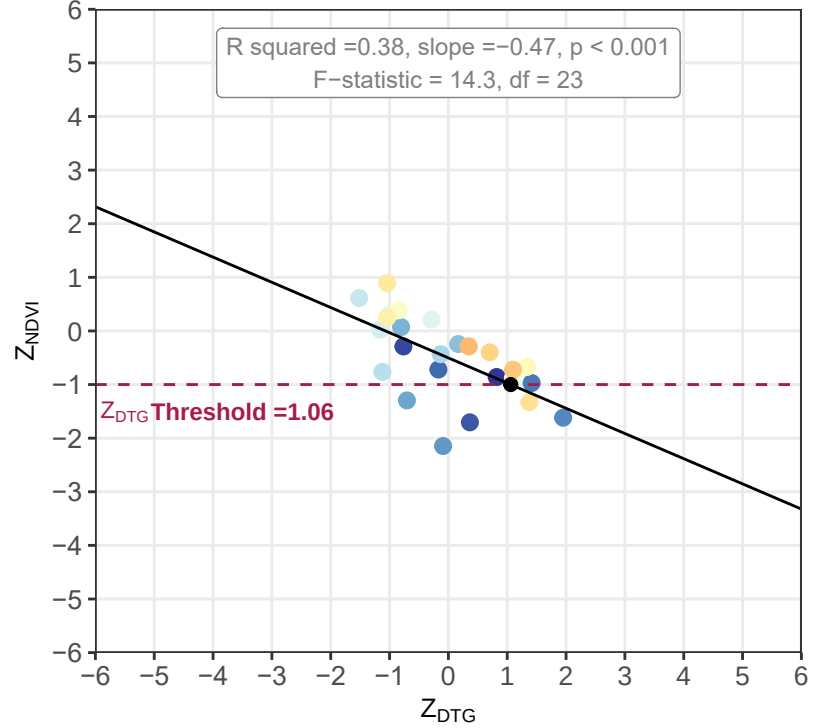
b



c

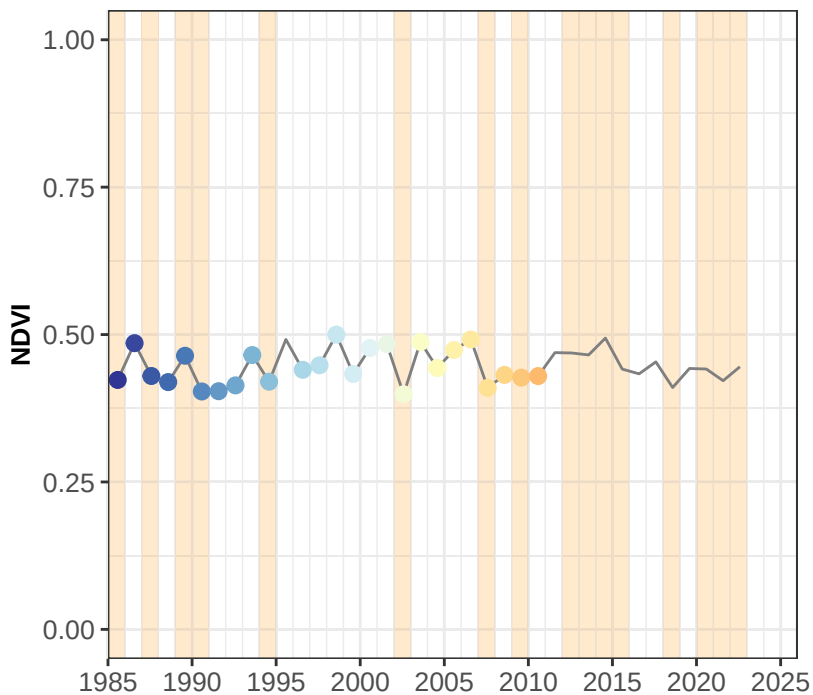


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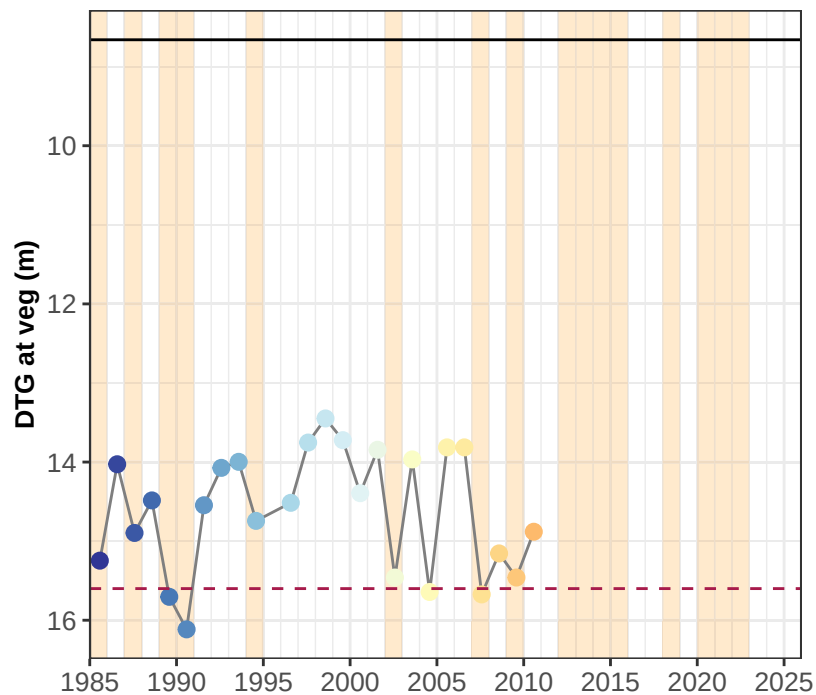


Quercus (gdeID: 375110)

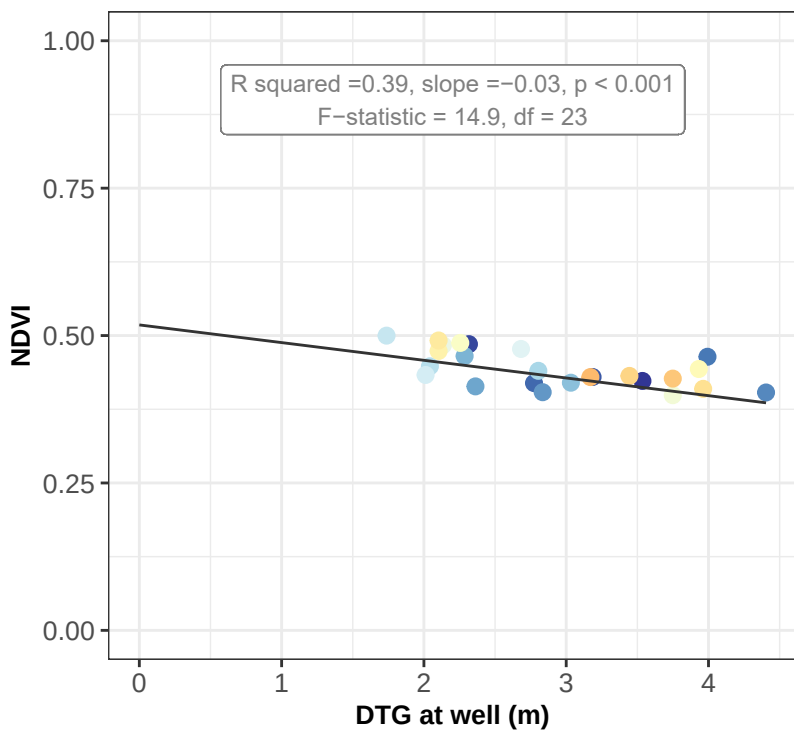
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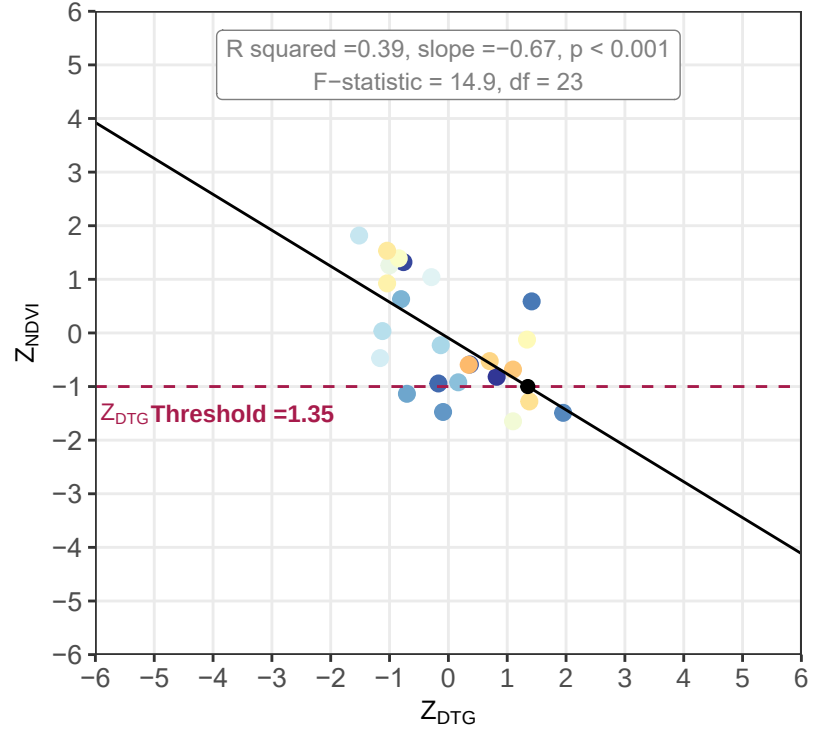
b



c

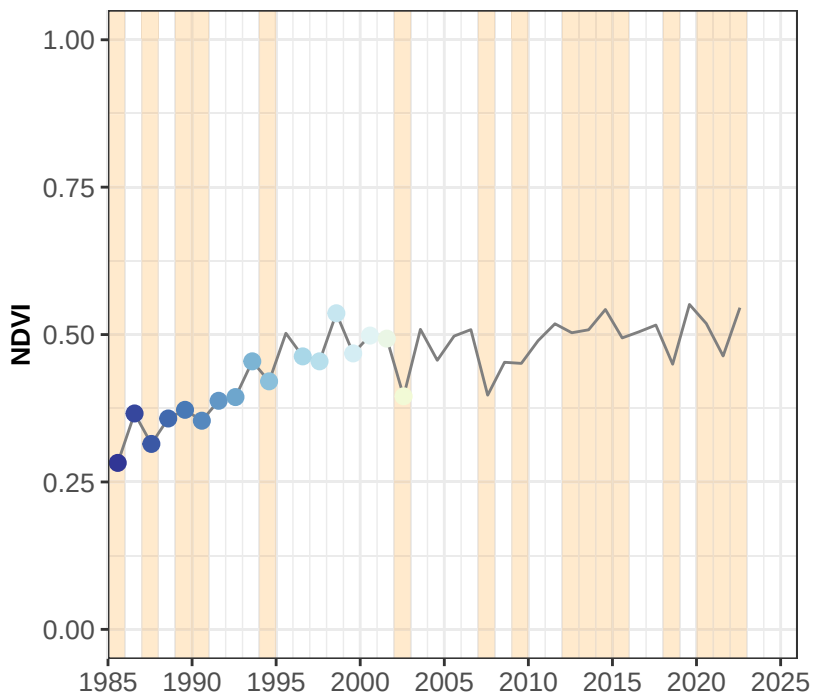


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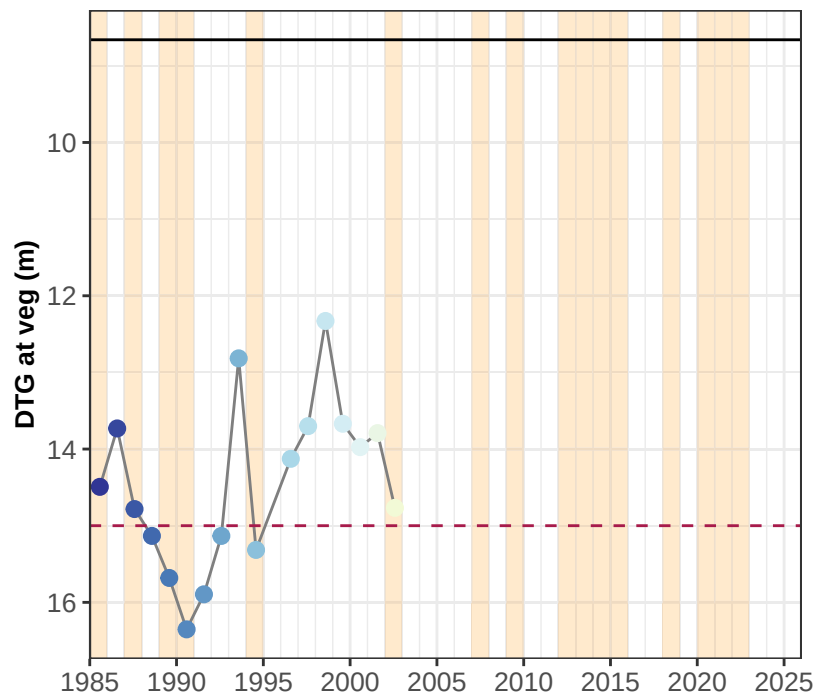


Quercus (gdeID: 375114)

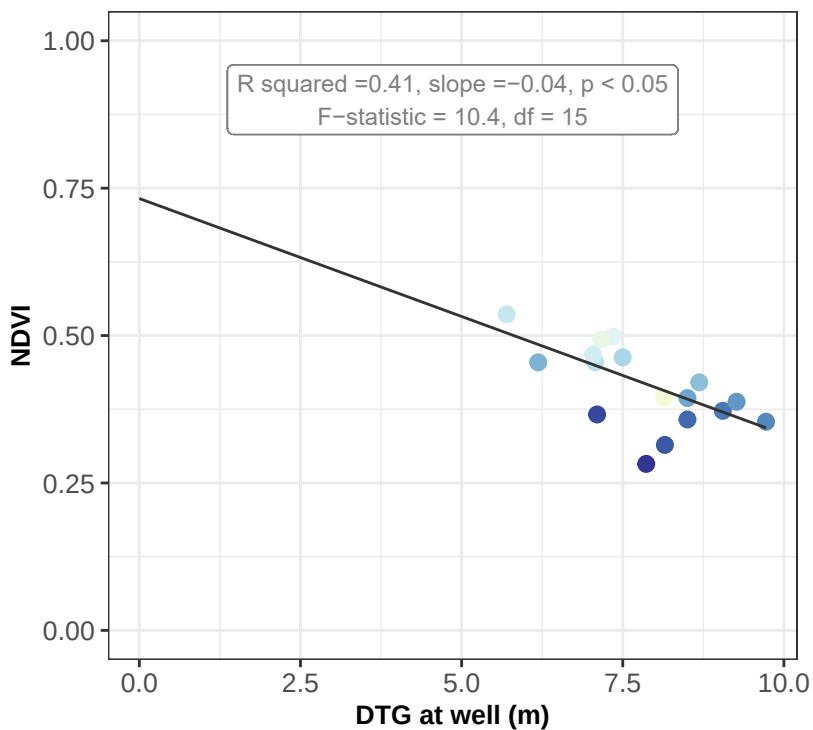
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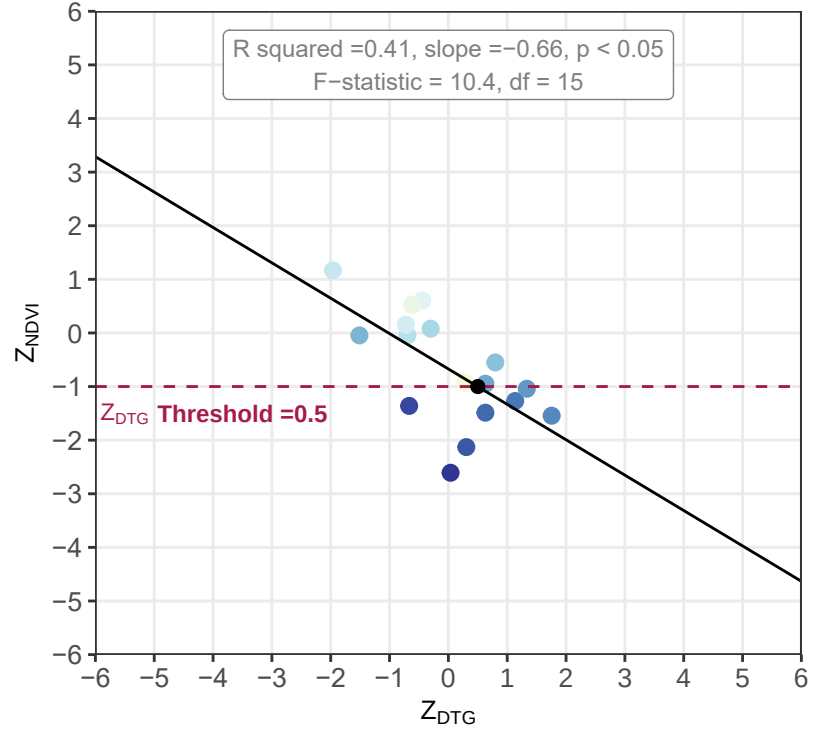
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c

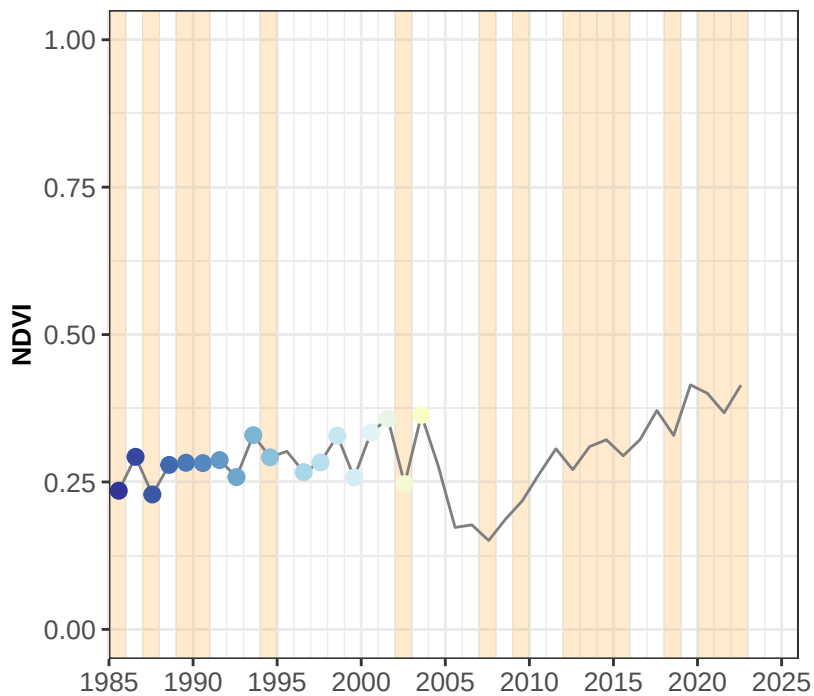


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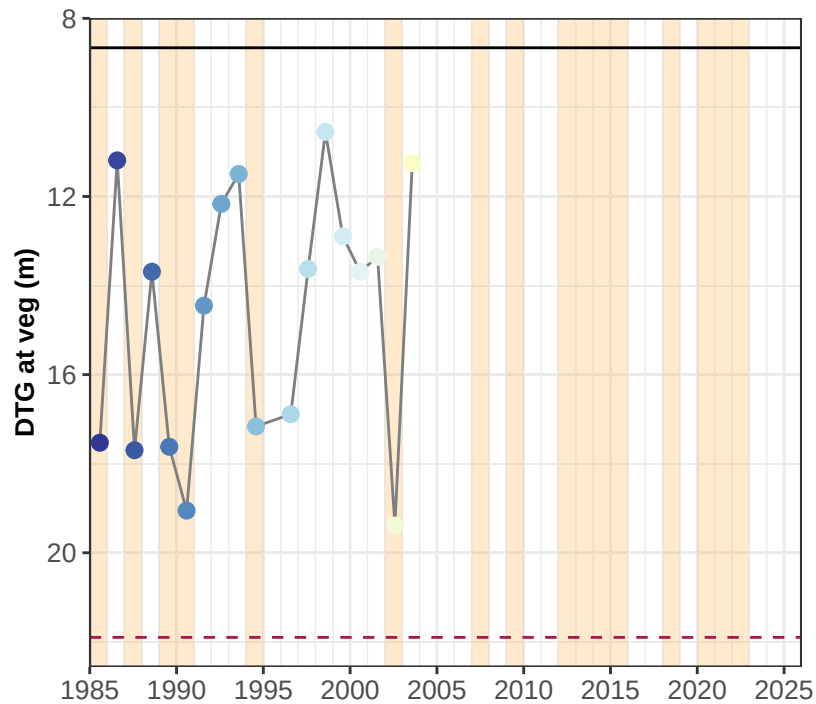


Quercus (gdeID: 377373)

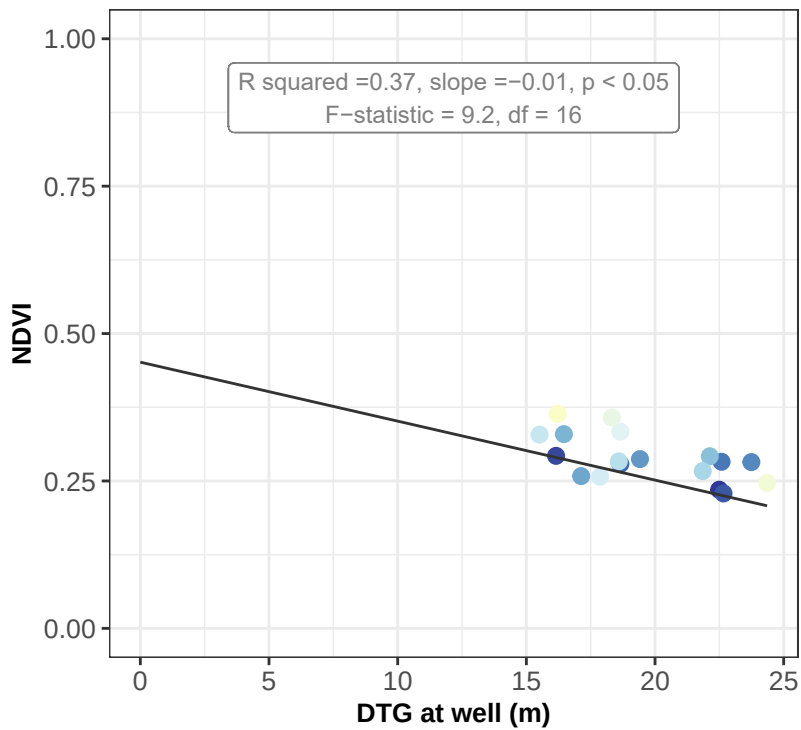
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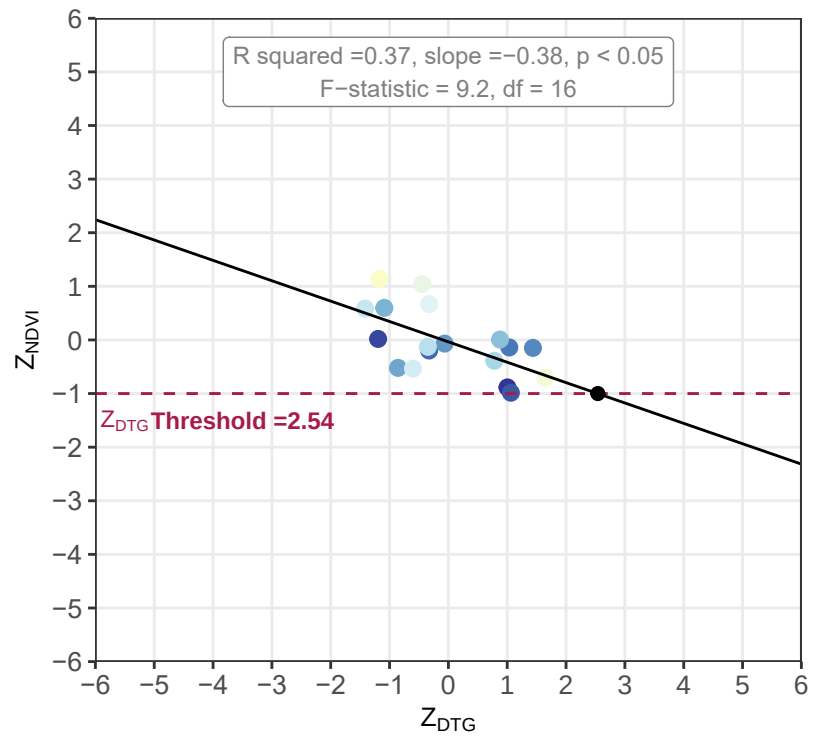
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c

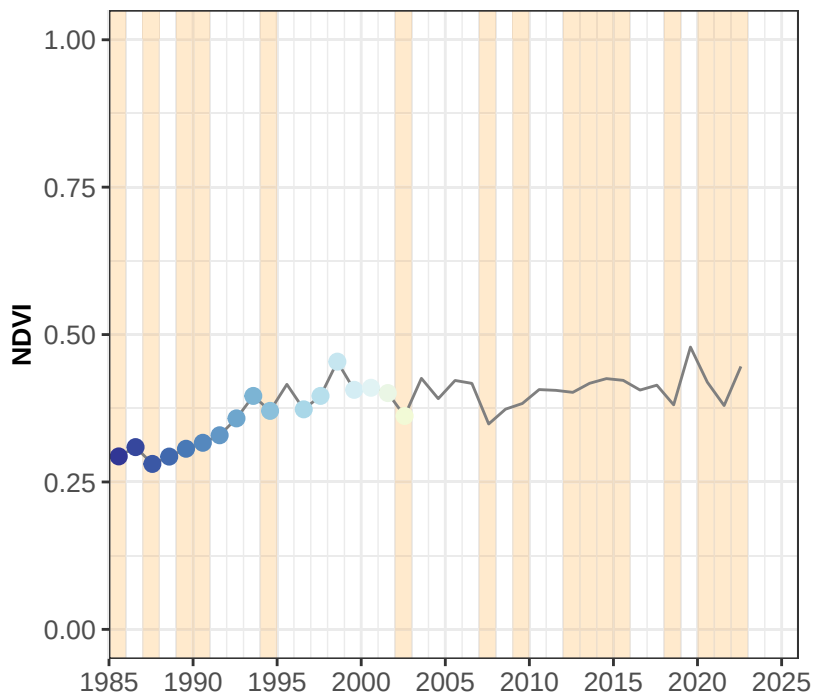


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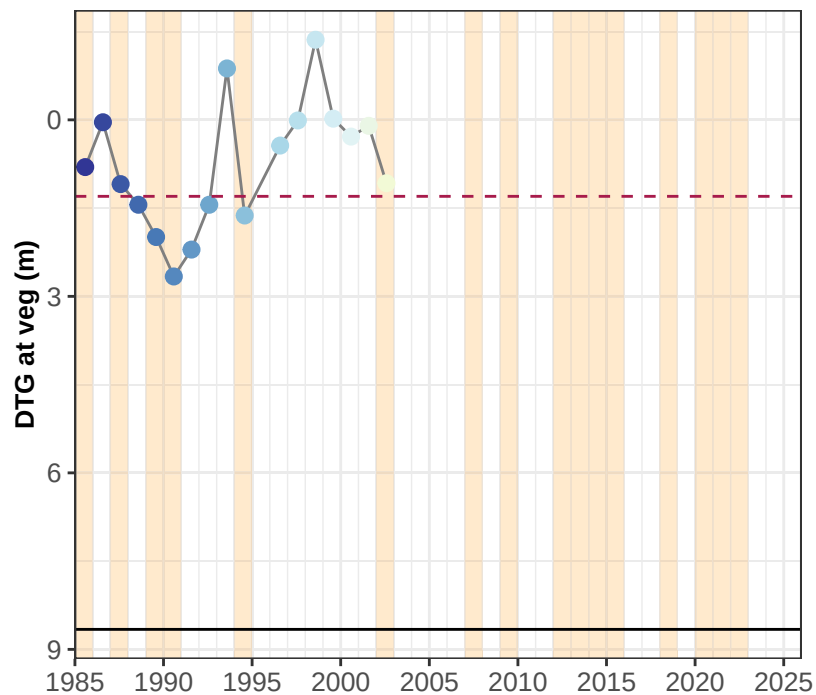


Quercus (gdeID: 377398)

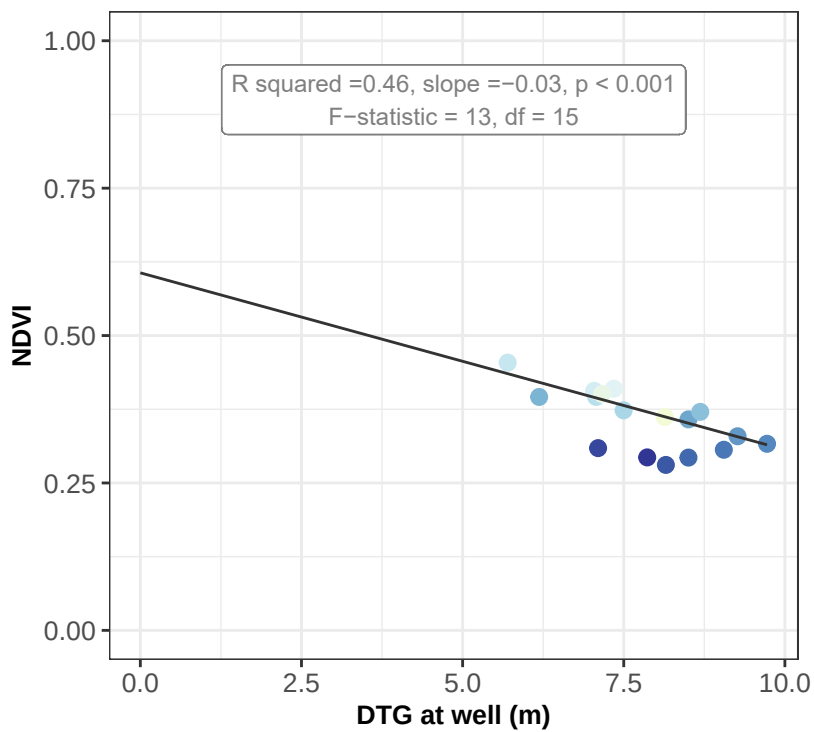
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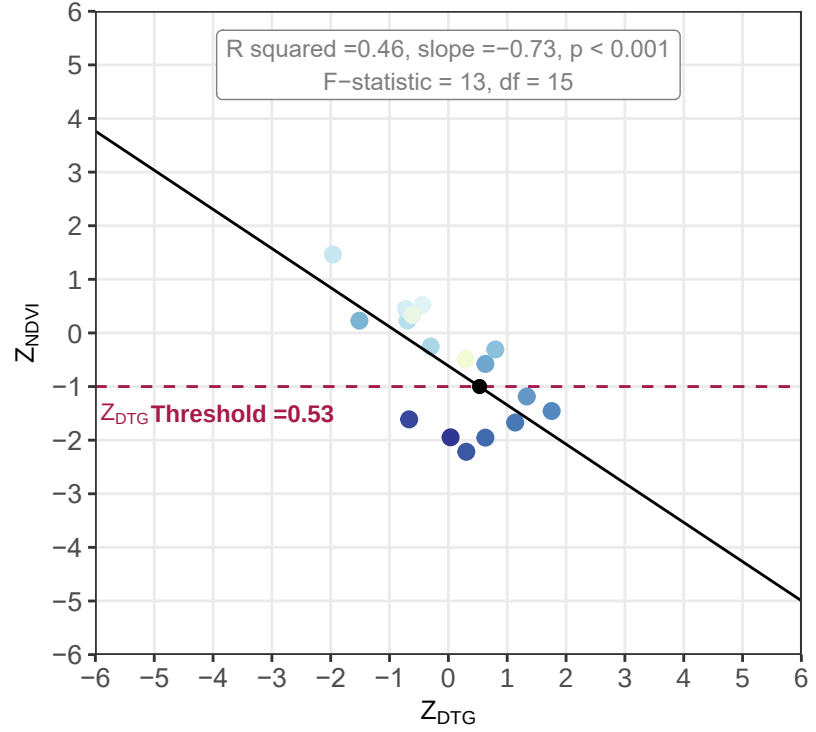
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c

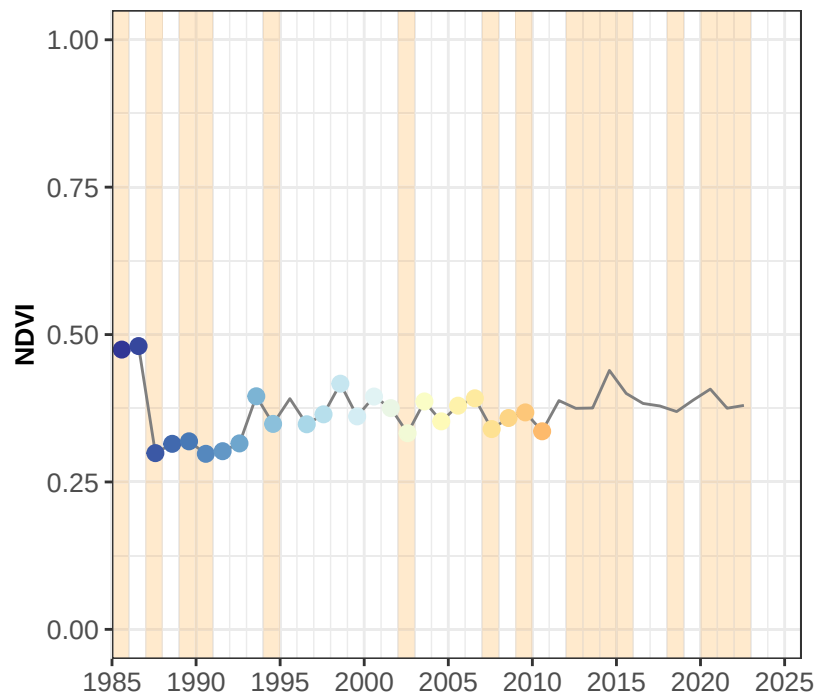


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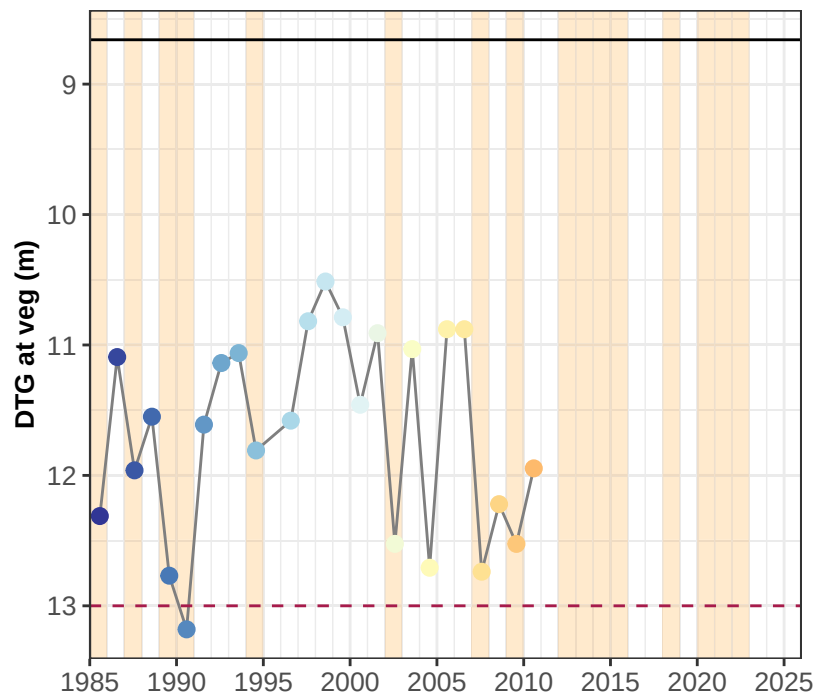


Quercus (gdeID: 377743)

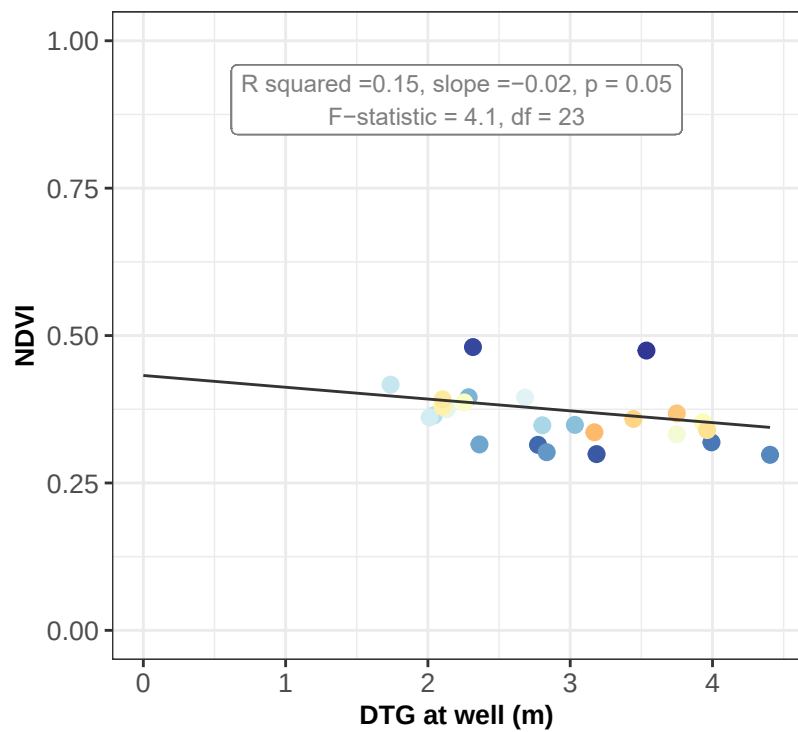
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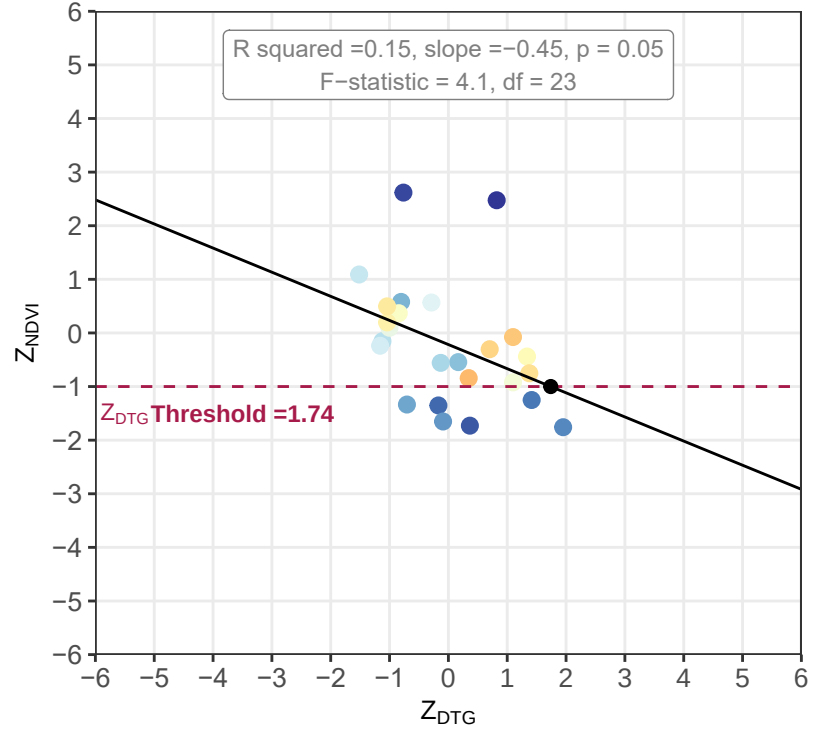
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c

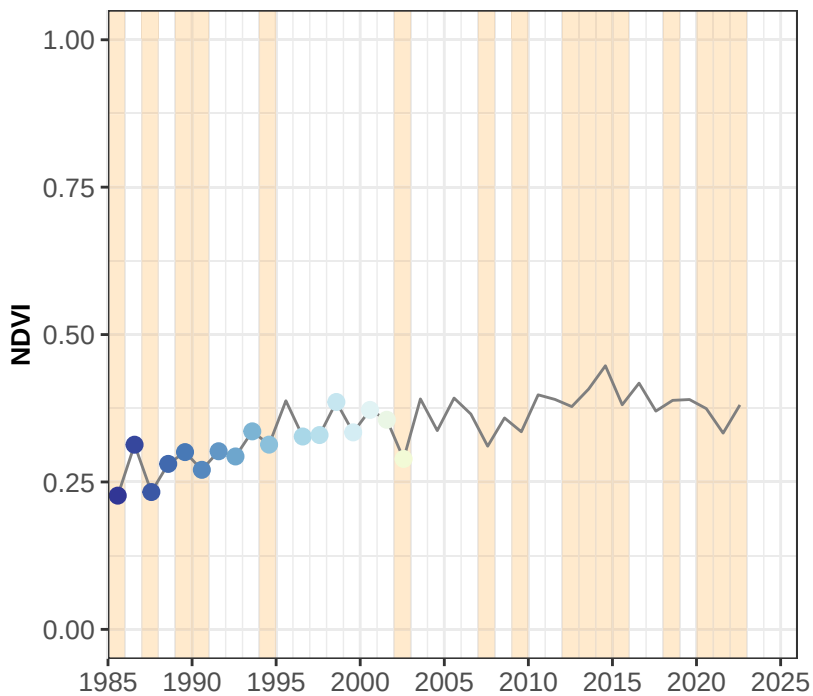


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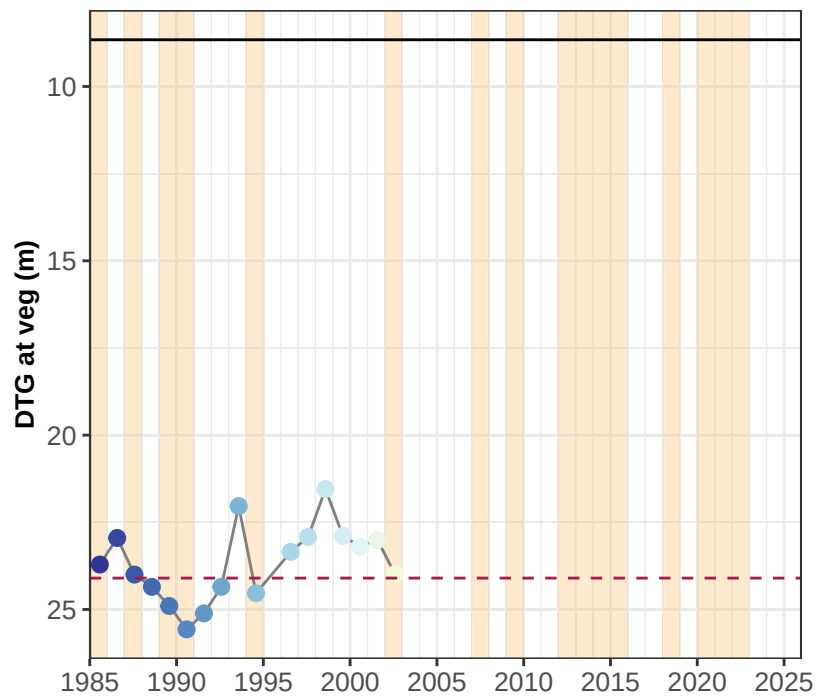


Quercus (gdeID: 377764)

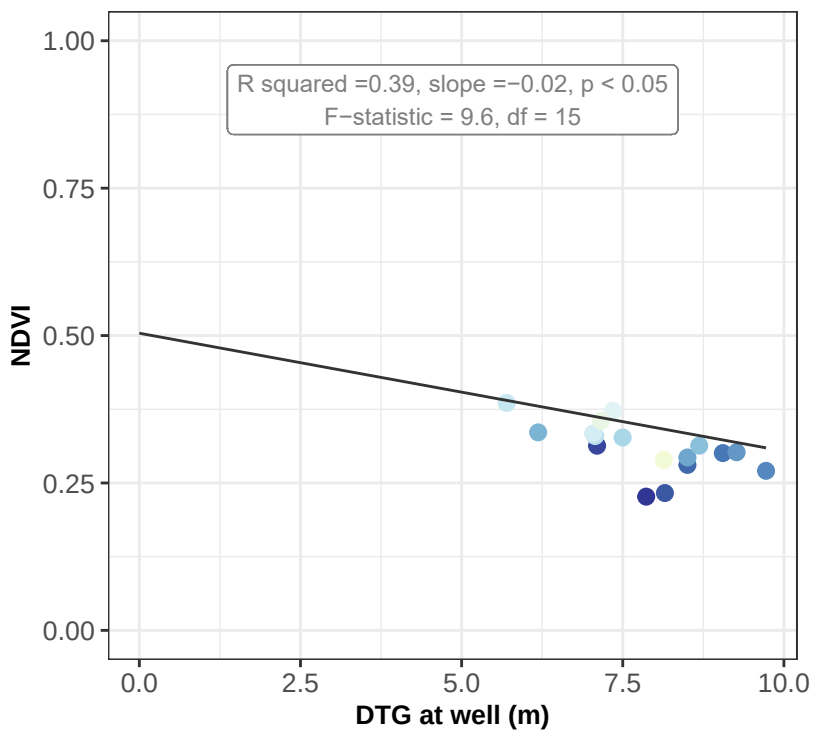
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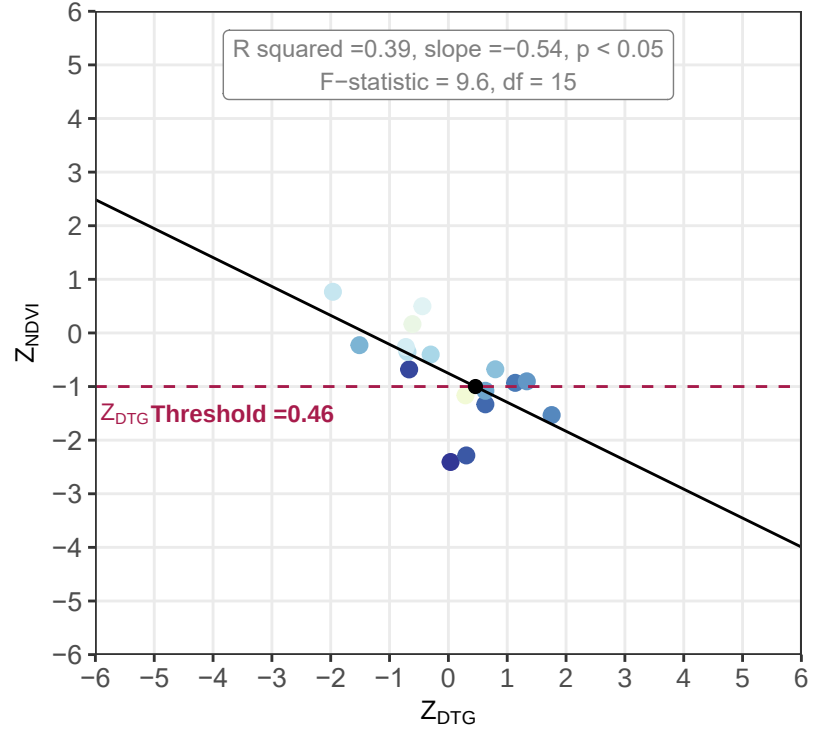
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c

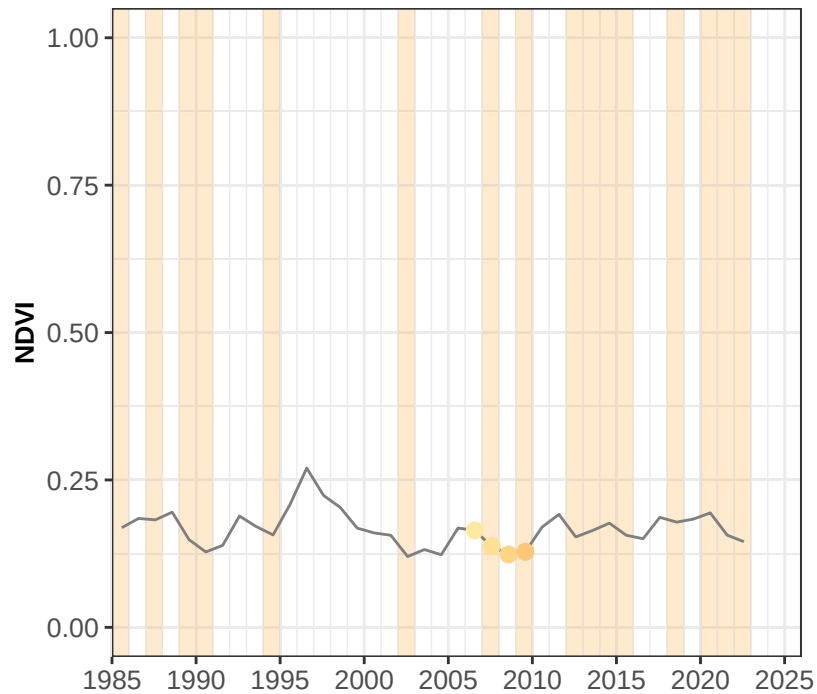


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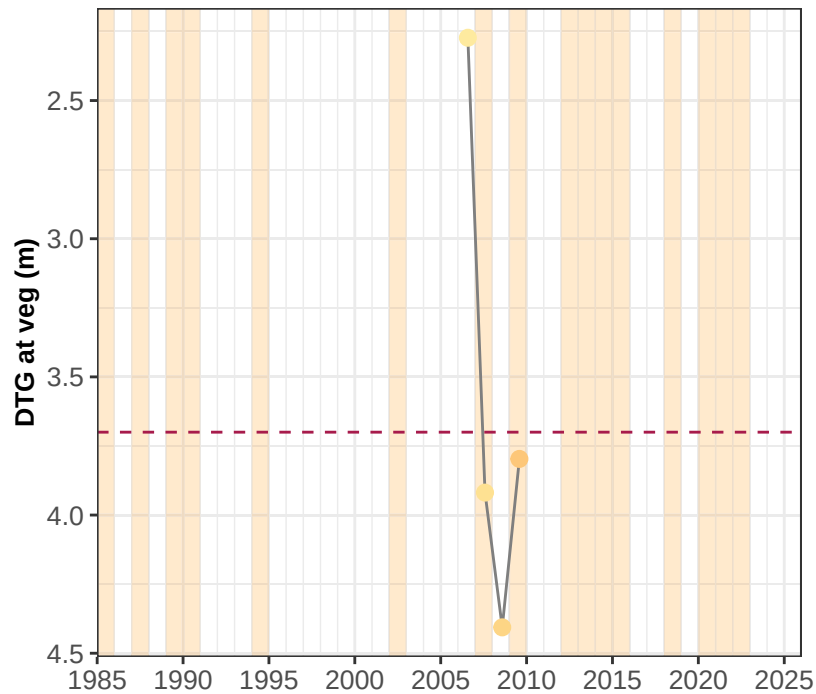


(gdeID: 38330)

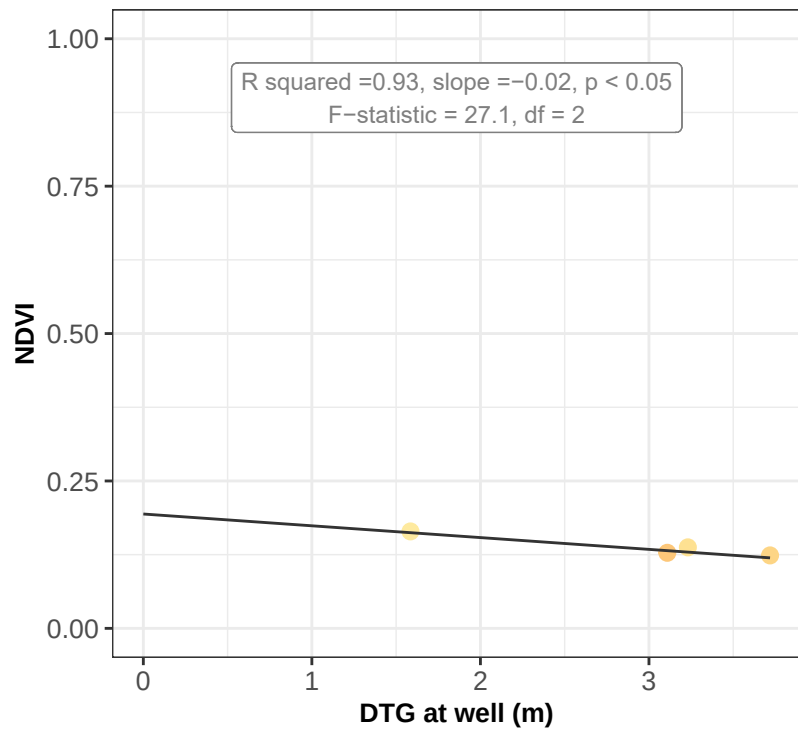
a



b



c



d

