# Planting Haloxylon ammodendron under photovoltaic panels

## Overview

The research focuses on two ecological governance measures: (1) the direct planting of Haloxylon ammodendron in bare sand in front of, between, and behind photovoltaic panels and (2) the planting of H. ammodendron after laying straw checkerboard barriers. The research focuses on. An in-situ field experiment was established to examine the influence of a long-term enhanced precipitation and N deposition on the photosynthetic traits and physiological characteristics of Haloxylon ammodendron in the Gurbantunggut Desert, northwest China, throughout the growing season in. Haloxylon ammodendron is a strong halophyte, and its hydraulic characteristics and carbon metabolism response to drought and salt stress under natural conditions have not been widely studied.

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### Haloxylon ammodendron plantations: enhancing multi-trophic ...

In this study, we set up a vegetation gradient in the desert-oasis ecotone of Zhangye Oasis, Hexi Corridor, spanning from natural desert vegetation (mobile and fixed sandy dunes) to ...

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### Soil Water Dynamics and Plant Water Use Pattern in Haloxylon

When precipitation infiltration was combined with the original soil water, the soil water and plant water use will experience significant dynamic changes, which play an important role in the

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### Effects of Two Ecological Governance Measures for Photovoltaic ...

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### Long-term impact of Haloxylon

**ammodendron plantations on the ...**

Haloxylon ammodendron plantations are crucial for dune stabilization and sand movement control in arid desert-oasis ecotones, effectively safeguarding oasis ecosystems. However, their ...

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**Photosynthetic regulation of C-4 desert plant Haloxylon ammodendron**

Results showed that under high radiation, in the AE, the species down-regulated its net assimilation rate (A) and maximum photochemical efficiency of PS II (Fv/Fm), indicating photoinhibition.

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**Restoration status of 38-year-old Haloxylon ammodendron plantations**

In the desert-oasis transition zone at the southern edge of the Junggar Basin, limited precipitation and clayey soil pose significant challenges for shrub forest ecological barriers. In the ...

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**Hydraulic characteristics and carbon metabolism of Haloxylon**

Under the influence of drought and

salinity, the anisohydric properties of H. ammodendron weakened its stomatal regulation ability and made it susceptible to water transport ...

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**Haloxylon Ammodendron**

Haloxylon ammodendron is a common plant in Xinjiang, belonging to Amaranthaceae and Clostridium. It is good at stabilizing sand and sequestering carbon (Cheng et al., 2020; Li and Zhao, 2017).

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**Insights into the multi-chromosomal mitochondrial genome structure of**

Haloxylon ammodendron holds significance as an ecological plant, showcasing remarkable adaptability to desert conditions, halophytic environments, and sand fixation. With its potential for carbon ...

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deposition on the photosynthetic traits and physiological characteristics of ...

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