

FACE-MDS Data Publications

Datasets developed as part of the FACE-MDS project or in close collaboration with partner projects. For other data from FACE projects, please visit the Distributed Research Facilities pages at <https://www.ornl.gov/content/free-air-carbon-dioxide-enrichment-face-experiments>.

2024

Obermeier W.A., Walker A.P., Nabel J., Loughran T., Hartung K., Bastos A., Havermann F., Anthoni P., Arneth A., Goll D., Lienert S., Lombardozzi D., Luyssaert S., McGuire P., Melton J., Poulter B., Sitch S., O'Sullivan M., Tian H., Wiltshire A., Zaehle S., Pongratz J.

2024. **Global Carbon Budget 1800-2018 Loss of Additional Sink Capacity and Present Transient Difference**. Free Air CO₂ Enrichment Model Data Synthesis (FACE-MDS), ESS-DIVE repository. Dataset. <https://doi.org/10.15485/2477409>

2020

Walker A.P., Powell A.S., Taylor B.N. 2020. **Literature synthesis and modelling data of terrestrial ecosystem responses to increasing atmospheric CO₂**. Free Air CO₂ Enrichment Model Data Synthesis (FACE-MDS), ESS-DIVE repository. Dataset. <https://doi.org/10.15485/1644687>

2018

Walker A.P., Yang B., Boden T., De Kauwe M.G., Fenstermaker L.F., Medlyn B., Megonigal J.P., Oren R., Pendall E., Zak D.R., Zaehle S., Burton A.J., Drake B.G., Evans R.D., Hungate B., Johnson D.P., Kim D., LeCain D., Lewin K.F., Lu M., Mueller K.F., Nowak R.S., Riggs J.S., Smith S.D., Tharp L.M., Zelikova T.J., Norby R.J. 2018. **FACE-MDS Phase 2: Meteorological Data and Protocols**. Free Air CO₂ Enrichment Model Data Synthesis (FACE-MDS), ESS-DIVE repository. Dataset. <https://doi.org/10.15485/1480328>

Walker A.P., De Kauwe M.G., Fenstermaker L.F., Hungate B., Medlyn B., Megonigal J.P., Oren R., Pendall E., Talhelm A.F., Zaehle S., Zak D.R., Boden T., Brown A.L., Burton A.J., Butnor J.R., Day F.P., Drake B.G., Dijkstra P., Evans R.D., Finzi A.C., Iversen C.M., Jackson R.B., LeCain D., McCarthy H.R., Powell T.L., Nowak R.S., Riggs J.S., Smith S.D., Stover D.B., Tharp L.M., Warren J.M., Wullschlegel S.D., Norby R.J. 2018. **FACE-MDS Phase 2: Data from Six US-Located Elevated CO₂ Experiments**. Free Air CO₂ Enrichment Model Data Synthesis (FACE-MDS), ESS-DIVE repository. Dataset. <https://doi.org/10.15485/1480325>

Walker A.P., De Kauwe M.G., Medlyn B., Zaehle S., Asao S., Guenet B., Harper A., Hickler T., Jain A K., Luo Y., Lu X., Luus K., Shu S., Wang Y., Werner C., Xia J., Norby R.J. 2018. **FACE-MDS Phase 2: Model Output**. Free Air CO₂ Enrichment Model Data Synthesis (FACE-MDS), ESS-DIVE repository. Dataset. <https://doi.org/10.15485/1480327>

2015

Norby R., Oren R., Boden T., De Kauwe M., Kim D., Medlyn B., Riggs J., Tharp M., Walker A., Yang B., Zaehle S. 2015. Phase 1 Free Air CO₂ Enrichment Model-Data Synthesis (FACE-MDS): Meteorological Data. CDIAC, ESS-DIVE repository. Dataset. <https://doi.org/10.3334/CDIAC/FACE-MDS/MET.01>

Walker A., De Kauwe M., Medlyn B., Zaehle S., Asao S., Dietze M., El-Masri B., Hanson P., Hickler T., Jain A., Luo Y., Parton W., Prentice I., Ricciuto D., Thornton P., Wang S., Wang Y., Warlind D., Weng E., Oren R., Norby R. 2015. **Phase 1 Free Air CO₂ Enrichment Model-Data Synthesis (FACE-MDS): Model Output Data (2015)**. CDIAC, ESS-DIVE repository. Dataset. <https://doi.org/10.3334/CDIAC/FACE-MDS/MOD.01>