Readme: Supplementary R script and Final Data Files

The following papers should be cited regarding files posted on the github archive listed below.

Papers

Trofymow, J.A., Shay, P-E., Tomm, B., Bérubé, J.A., Ramsfield, T.D. 2023. Differences in soil fungal communities between forested reclamation and forestry sites in the Alberta oil sands region. J. Fungi 2023, 9, 1110. https://doi.org/10.3390/ jof9111110

Trofymow, J.A., Shay, P-E., Myrholm, C.L., Tomm, B., Bérubé, J.A., Ramsfield, T.D. 2020. Fungi associated with tree species at an Alberta oil sands reclamation area, as determined by sporocarp assessments and high-throughput DNA sequencing. Appl. Soil Ecol. 147, 103359. Doi:10.1016/j.apsoil.2019.09.009

Github Archive

https://github.com/patg13/reclamation_site_data.git
Patg13/Reclamation_Site_Data: Data and scripts for the Reclamation site project

P-E. Shay. Author of R script and final data files

Files

2014 soil unnormalised data set with bio functions-JackPine_clean code.R
= R script for the analysis of the pyrosequencing data
W:\EDM\Soil_Fungi_PES\FieldTrip2014\DNAsoil2014

Illumina reseq of 2014-Min-10 samples-reclamation status analysis).R
= R script for the analysis of the Illumina data.
W:\EDM\Soil_Fungi_PES\FieldTrip2014\DNAsoil2014\Reclamation tests_Jack pine (with Illumina min-10 samples)

Stat-tests_2013-2014_soil_unnormalised_data_set_with_biological_functionsCopy.csv
= Pyrosequencing data for all six 2014 Gateway Hill sites each with 3 transects, all five 2013 Fort Chipewayn sites with single samples, and the two 2014 Fort Chipewayn sites each with 3 transects. Titles for columns H to CR represent sample names under the form of SiteCode_Transect#SoilFraction_YearSampled.
W:\EDM\Soil_Fungi_PES\FieldTrip2014\DNAsoil2014

Analysis19471_ITSSoil_20Dec2017_15h23.new.besthits.with_biof.NO_SINGLETONS.blast.csv
= Illumina data for all six 2014 Gateway Hill sites each with 3 transects and the two 2014 Fort Chipewayn sites each with 3 transects. Titles for columns N to AP represent sample names in the form: Area-SiteCode-Transect#-SoilFraction. Included are data from 2016 for Site “Sw”, an unmined natural white spruce stand (1 site x 2 transects x 4 soil fractions) at Gateway Hill, described in Trofymow et al. 2020.
W:\EDM\Soil_Fungi_PES\FieldTrip2014\DNAsoil2014\Illumina reseq of 2014-Min-10 and 2016-natural-white-spruce samples

Illumina reseq of 2014-Min-10_data table.csv
= Site characteristics and environmental sample data for Gateway Hill and Fort Chipewayn from 2014. Row titles (i.e. column A) represent sample names under if the form: Area.SiteCode.Transect#.SoilFraction. Included are data from 2016 for Site “Sw”, an unmined natural white spruce stand (1 site x 2 transects x 4 soil fractions) at Gateway Hill, described in Trofymow et al. 2020.
W:\EDM\Soil_Fungi_PES\FieldTrip2014\DNAsoil2014\Illumina reseq of 2014-Min-10 and 2016-natural-white-spruce samples

Stat-tests_2013-14 site descriptionForestReclam.csv
= Site characteristics and environmental sample data at Gateway Hill and Fort Fort Chipewayn from 2013 and 2014. Row titles (i.e. column A) represent sample names under the form of SiteCode_Transect#SoilFraction_YearSampled.
W:\EDM\Soil_Fungi_PES\FieldTrip2014\DNAsoil2014