**Index of Bespoke MATLAB Functions Provided in Computational Statistics in the Earth Sciences**

ADistance – computes the Aitchison distance between two compositions

AInnerProduct – computes the Aitchison inner product of the two compositions

Anorm – computes the Aitchison norm for a composition

Anovar – computes anova table for a linear regression

Benjamini – Benjamini-Hochberg multiple hypothesis testing

BI – bounded influence linear regression using Chave-Thomson algorithm

Cart\_to\_Comp – converts Cartesian components on a unit ternary diagram to a composition

Close – performs closure operation on a composition

Clr – applies the centered log ratio transformation to a composition

ClrI – computes the inverse centered log ratio transformation

Comp\_to\_Cart – converts a closed composition to Cartesian components on a unit ternary diagram

Contrast – computes the contrast matrix for a sequential binary partition

Huber – robust linear regression using Huber weights

Hypergeometric2f1 – Gauss hypergeometric function

Ilr – computes the isometric log ratio transformation for a composition

IlrI – computes the inverse isometric log ratio transformation

NVariation – computes the normalized variation matrix for a composition

Padesum – series summation using Padé approximants

Perturbation – performs perturbation operation on two compositions

Pochammer – Pochammer’s symbol

Powering – performs power transformation on a composition

Ternary – function to set up axes for a ternary diagram

TernaryLabel – places labels on the axes of a ternary diagram

TernaryLine – plots a compositional line on a ternary diagram

TernaryPlot – plots compositional data as a scatter plot on a ternary diagram

Treg – computes t table for a linear regression

WilksLambda – computes Wilks lambda statistic and p-value