Logistic and Probit Regression for Meron Data

Results of logistic regression

```
Deviance Residuals:
    Min       1Q   Median       3Q      Max
-3.4974  -0.3888   0.1139   0.4903   2.1899

                 Estimate Std. Error z value Pr(>|z|)
(Intercept)     -3.209e+01  1.425e+03  -0.023  0.98203
alt              4.874e-02  1.374e-02   3.546  0.00039 ***
stream.dist     -1.489e-02  6.075e-03  -2.451  0.01426 *
road.dist       -5.820e-04  1.721e-03  -0.338  0.73529
water.dist       3.610e-03  1.760e-03   2.051  0.04022 *
slope            1.137e+01  1.169e+01   0.972  0.33100
ns.aspect        2.804e-02  1.805e-02   1.554  0.12018
ew.aspect       -2.098e-02  3.628e-02  -0.578  0.56304
cattle.low      -9.500e+00  1.425e+03  -0.007  0.99468
cattle.med.high -1.107e+01  1.425e+03  -0.008  0.99380
goats           -1.061e+01  1.425e+03  -0.007  0.99406
slope:ns.aspect -3.032e-01  1.094e-01  -2.771  0.00559 **
slope:ew.aspect  2.953e-01  2.343e-01   1.260  0.20756
---
(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 256.41  on 199  degrees of freedom
Residual deviance: 122.60  on 187  degrees of freedom
AIC: 148.6
```

Results of probit regression

```
Deviance Residuals:
    Min       1Q   Median       3Q      Max
-3.5588  -0.4136   0.1045   0.5246   2.0799

                 Estimate Std. Error z value Pr(>|z|)
(Intercept)     -1.911e+01  2.043e+02  -0.094 0.925453
alt              2.417e-02  7.120e-03   3.394 0.000688 ***
stream.dist     -8.174e-03  3.288e-03  -2.486 0.012926 *
road.dist       -2.985e-04  9.007e-04  -0.331 0.740335
water.dist       1.997e-03  9.193e-04   2.172 0.029834 *
slope            4.823e+00  6.164e+00   0.782 0.433946
ns.aspect        1.972e-02  9.920e-03   1.988 0.046825 *
ew.aspect       -1.754e-02  1.891e-02  -0.928 0.353487
cattle.low      -1.817e+00  2.041e+02  -0.009 0.992897
cattle.med.high -2.468e+00  2.041e+02  -0.012 0.990352
goats           -2.370e+00  2.041e+02  -0.012 0.990738
slope:ns.aspect -1.834e-01  5.993e-02  -3.060 0.002212 **
slope:ew.aspect  2.079e-01  1.235e-01   1.684 0.092266 .
---
(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 256.41  on 199  degrees of freedom
Residual deviance: 126.40  on 187  degrees of freedom
AIC: 152.4
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