## Litoria tyleri (N = 33748 data points) day mean\_min\_temp mean\_max\_temp 5.0% 3.50% 3.00% 4.0% 3.00% 3.0% 2.50% sensitivity specificity model mse auc 2.0% 2.50% RF 0.118 0.528 0.935 0.877 0.386 1.0% 2.00% Calibrated RF 0.050 0.502 0.938 0.877 0.378 10 100 200 300 20 40 60 20 30 40 0 rain\_3\_days mean\_rainfall rain\_10\_days Probability of calling 3.20% of calling 3.00% 2.80% 3.60% 3.50% 3.25% 3.30% Predictor importance 3.00% 3.00% grid\_lat 2.75% 100 200 100 200 300 400 500 200 400 600 800 grid\_Ing phase mean\_vapour 3.60% 4.00% day 3.40% 3.50% 3.20% mean\_min\_temp · 3.00% 3.00% 2.50% 2.80% mean\_max\_temp · 2.00% 0.75 1.00 30 0.25 0.50 10 20 mean\_vapour · Calibration model 1.00 number\_of\_samples -Calibrated prediction rain\_10\_days · phase rain\_3\_days mean\_rainfall · 0.00 0.25 0.50 100 0.75 200 0.00 1.00 300 RF prediction Predictor Importance (Gini Index)