MAXIMUM ENTROPY ALGORITHM

1. Start with a blank map B, and a small positive value of parameter λ.

2. From B, compute the model modulation profile $\{e_i\}$.

3. Calculate the C (or χ^2) statistic measuring the difference between the observed modulation profile $\{n_i\}$ and $\{e_i\}$.

4. From the modulation pattern, $\{n_i\}$ and $\{e_i\}$, compute the gradient of C (or χ^2) with respect to the free parameters (the map pixels). This is the "gradient map".

5. Using the fixed-point method (Sakao, 1992), find the map B which yields a maximum of the difference of the entropy and λ times the gradient map.

6. If C (or χ^2) has not fallen below a pre-determined limit, increase λ by a few percent and repeat from step 2.

7. B is the "Maximum Entropy" map.