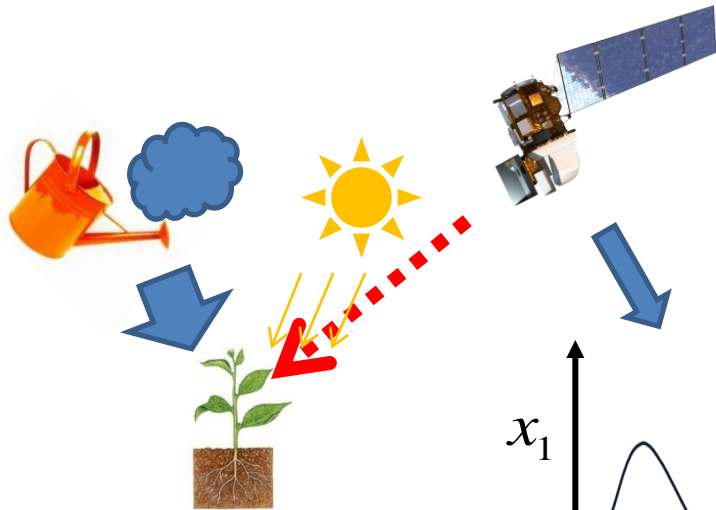


# La modélisation du chaos appliquée à la classification des couverts agricoles (Inde du Sud)

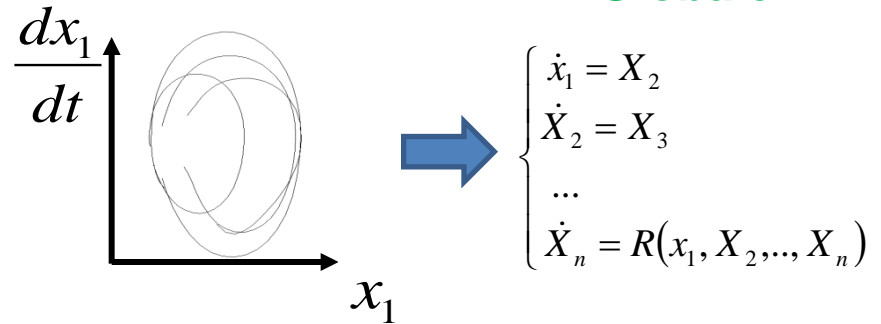
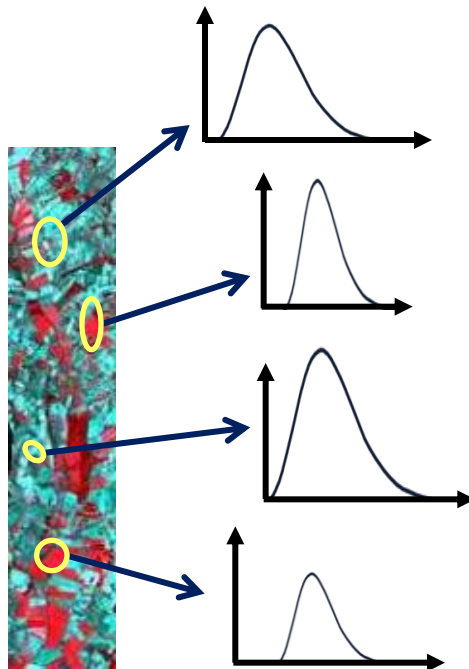
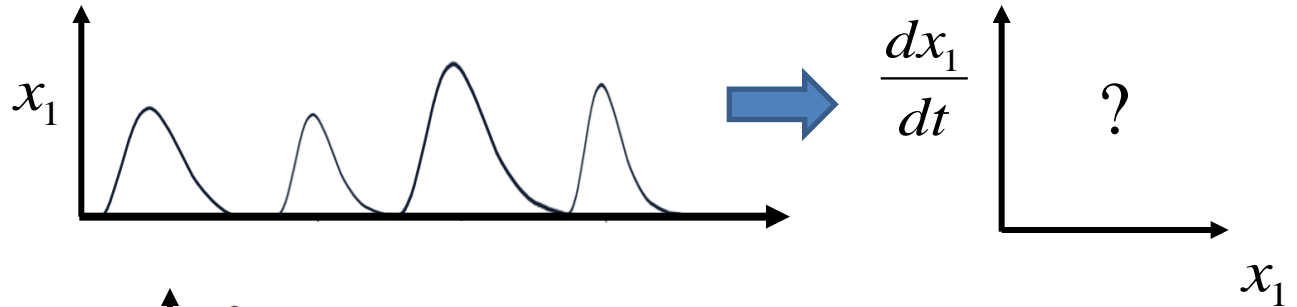


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L.Ruiz, S. Corgne, L. Hubert-Moy, Y. Kerr

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$$\begin{cases} \dot{x}_1 = f_1(x_1, x_2, \dots, x_d) \\ \dot{x}_2 = f_2(x_1, x_2, \dots, x_d) \\ \dots \\ \dot{x}_d = f_d(x_1, x_2, \dots, x_d) \end{cases}$$

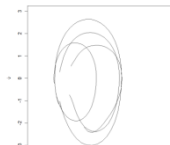
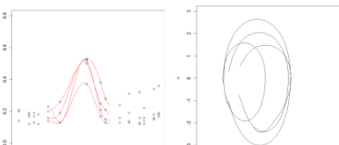


## Modélisation Globale

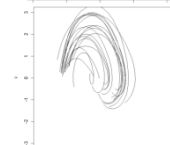
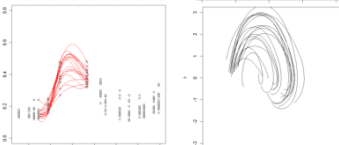
$$\begin{cases} \dot{x}_1 = X_2 \\ \dot{X}_2 = X_3 \\ \dots \\ \dot{X}_n = R(x_1, X_2, \dots, X_n) \end{cases}$$

Espace des phases

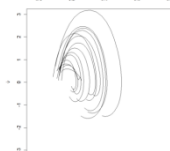
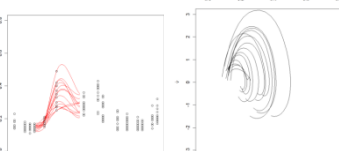
Maïs



Sorgho



Tournesol



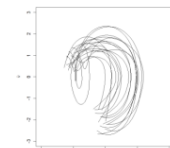
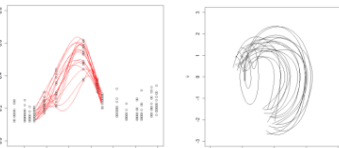
⋮

⋮

⋮

⋮

Curcuma



Banque de modèles

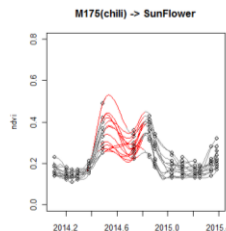
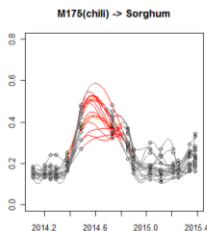
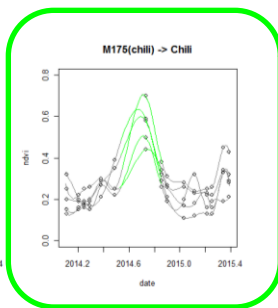
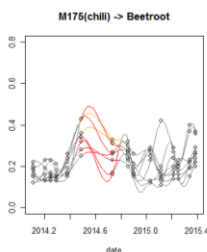
- $M_{\text{Maïs}}$
- $M_{\text{Sorgho}}$
- $M_{\text{Tournesol}}$
- $M_{\text{Roses d'Inde}}$
- $M_{\text{Piment}}$
- $M_{\text{Haricot}}$
- $M_{\text{Betterave}}$
- $M_{\text{Banane}}$
- $M_{\text{Ail}}$
- $M_{\text{Curcuma}}$



$$d(M, \psi^{obs})$$

Exemple:

$M_{\text{Piment}}$



Statistiques



de détection

100% bonne  
(5/5)

4% erronée  
(4/104)

À suivre...