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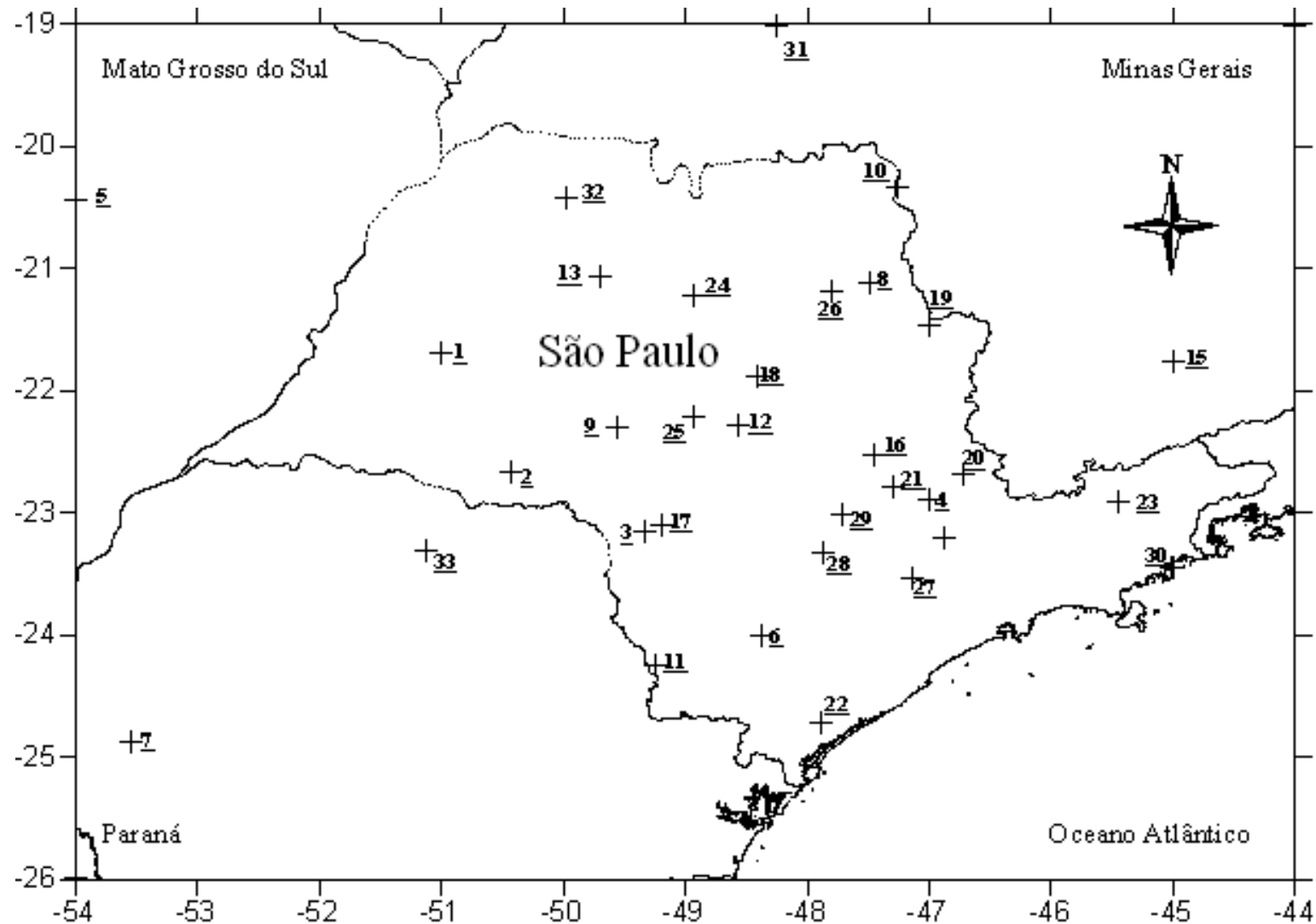
College on Soil Physics – 30th Anniversary (1983–2013)

25 February – 1 March, 2013

Modeling for crop production

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BRAZIL*

São Paulo State sites



Simulation of PAR and Temperature by bivariated normal distribution

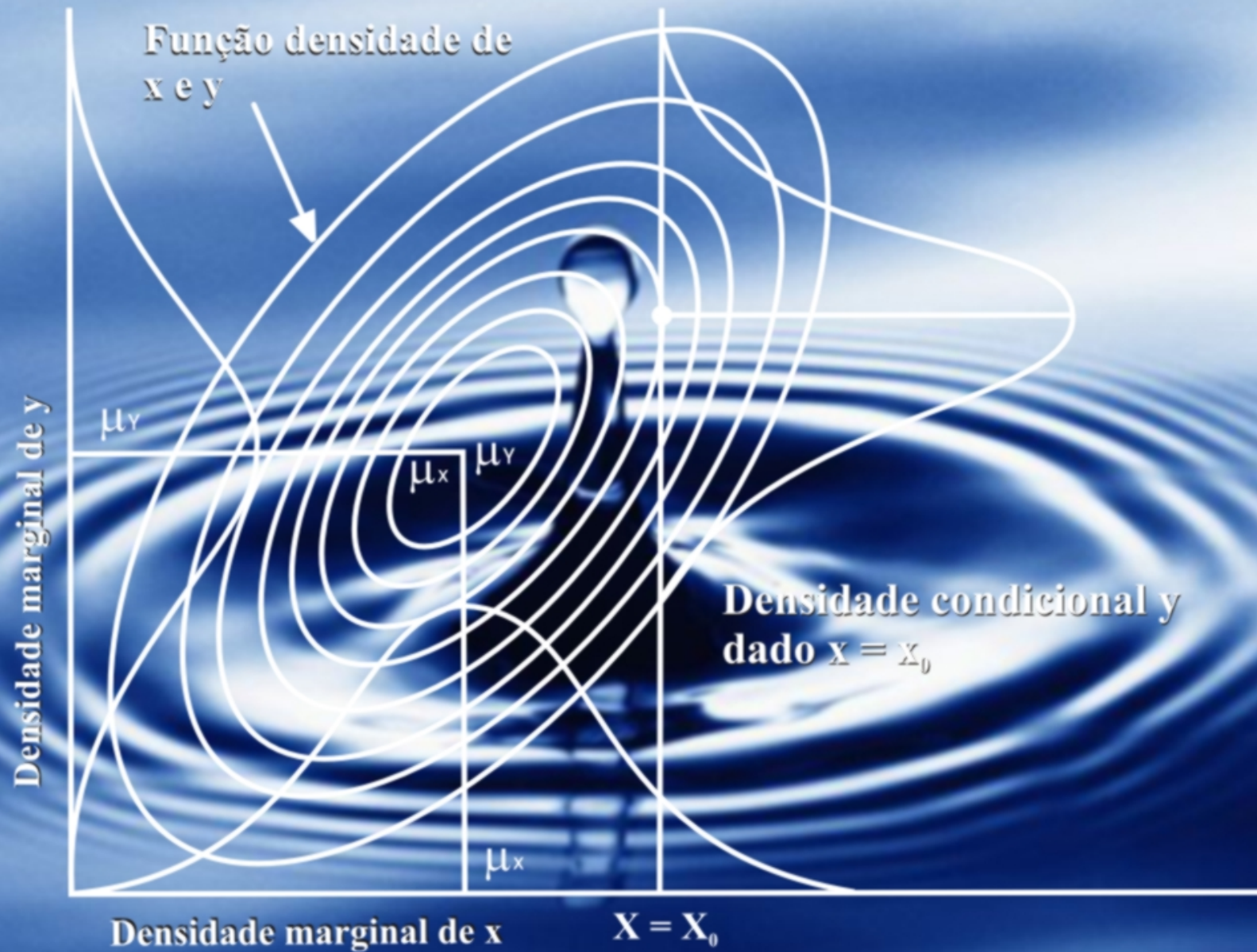
$$N_1 = \sqrt{-2 * \ln(\kappa_1)} * \cos(2 * \pi * \kappa_2)$$

$$N_2 = \sqrt{-2 * \ln(\kappa_1)} * \sin(2 * \pi * \kappa_2)$$

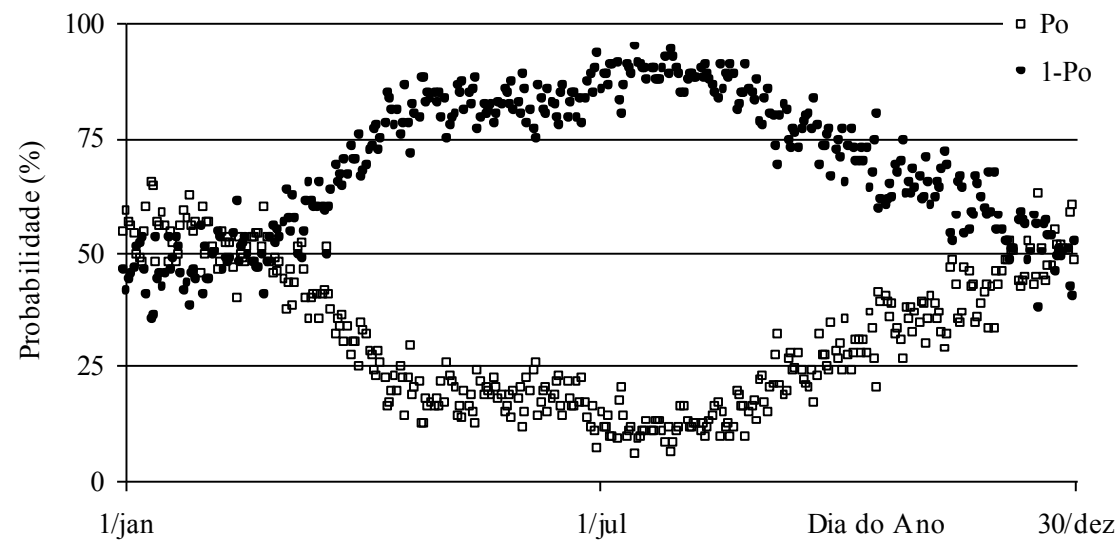
$$PAR_i = \mu_{PAR} + \sigma_{PAR} * N_1$$

$$T_i = (\mu_T + (\rho * \sigma_T / \sigma_{PAR}) * (PAR_i - \mu_{PAR})) + \sqrt{1 - \rho^2} * \sigma_T * N_2$$

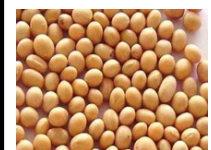
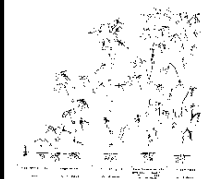
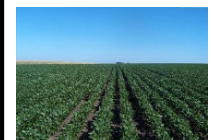
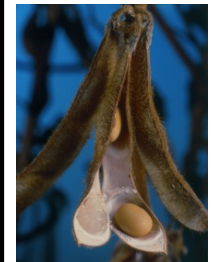
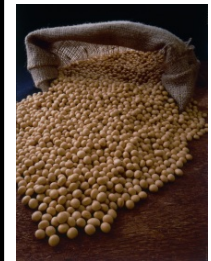
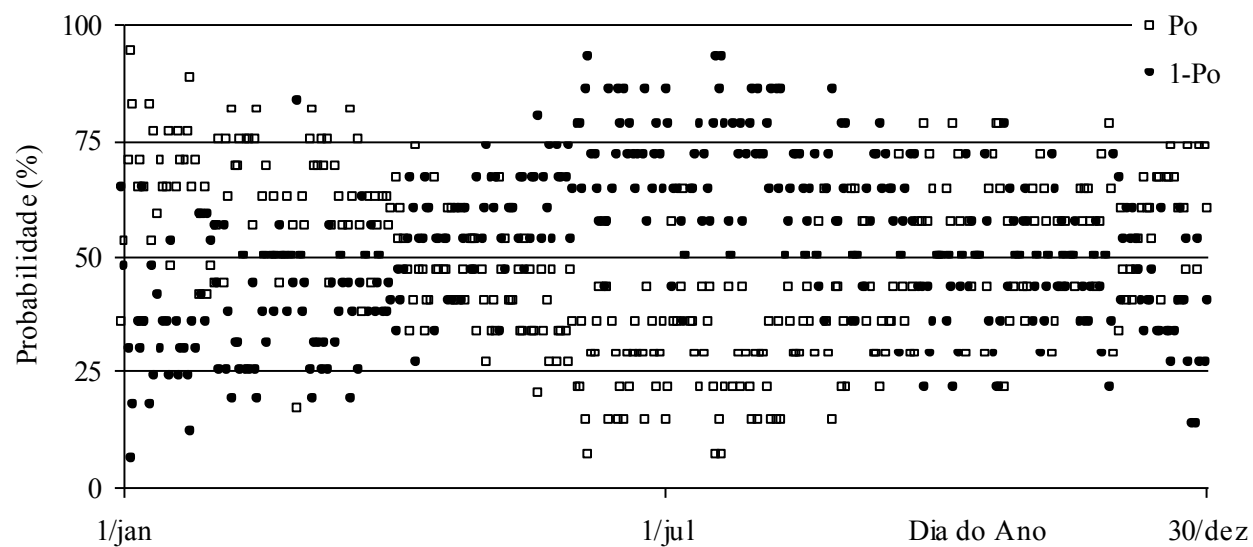
Bivariated Normal Distribution



•Campinas



•Ubatuba



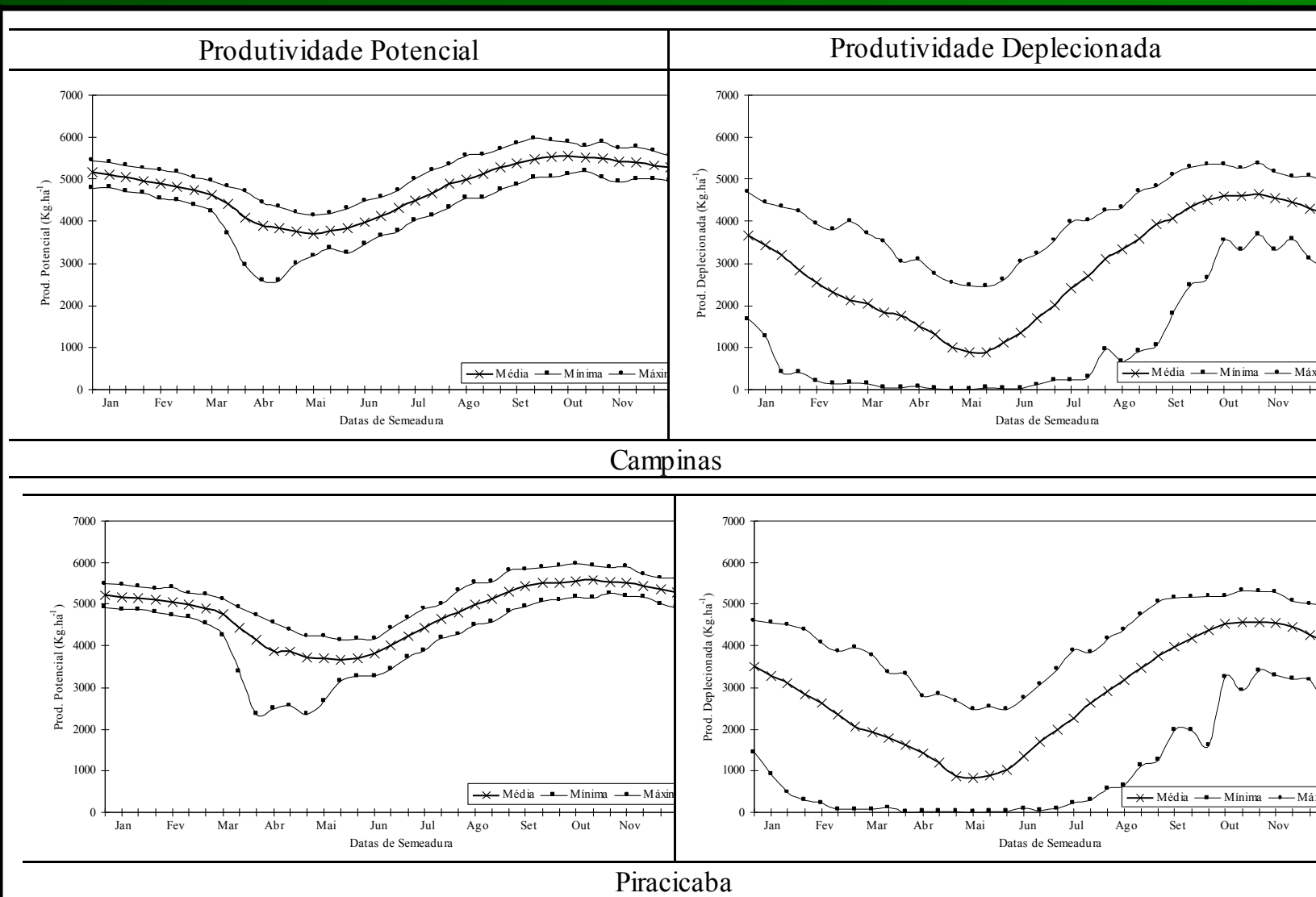
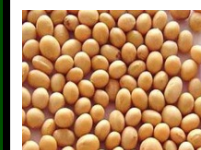
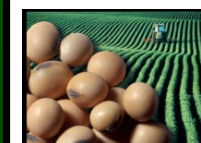
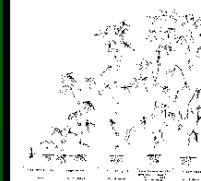
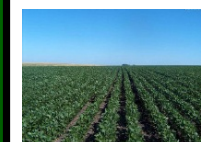
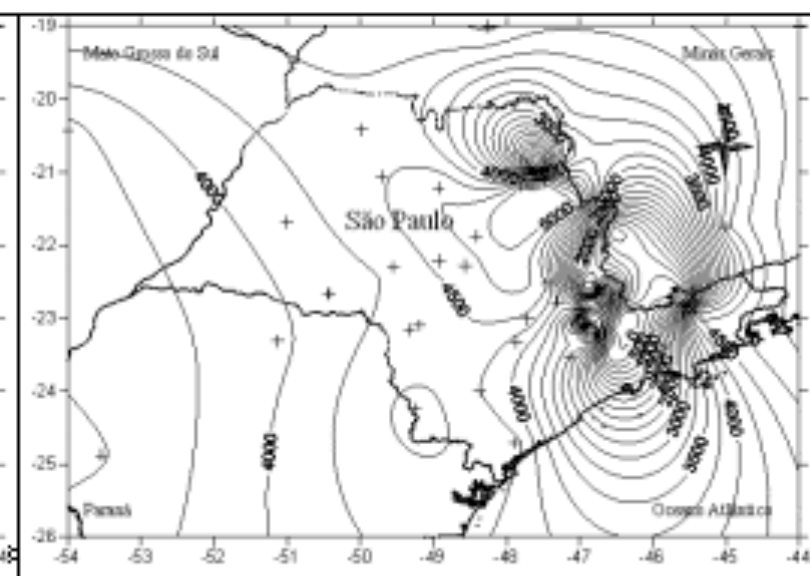
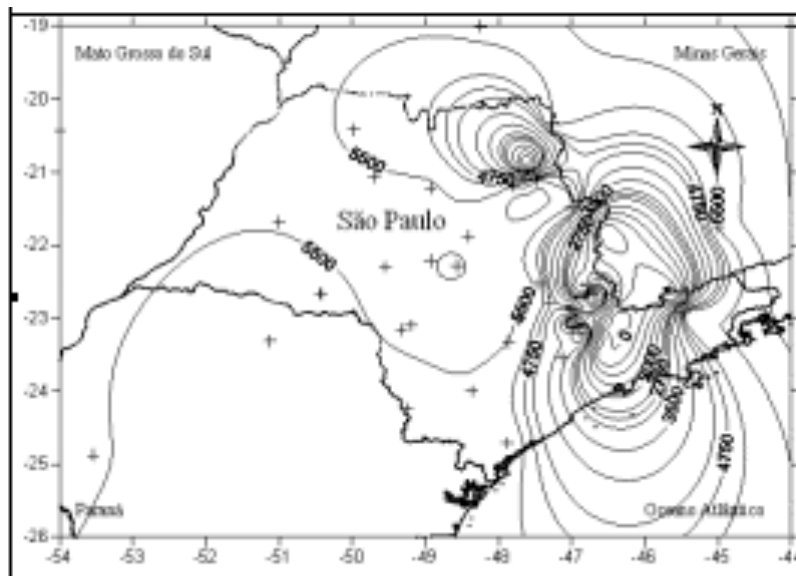
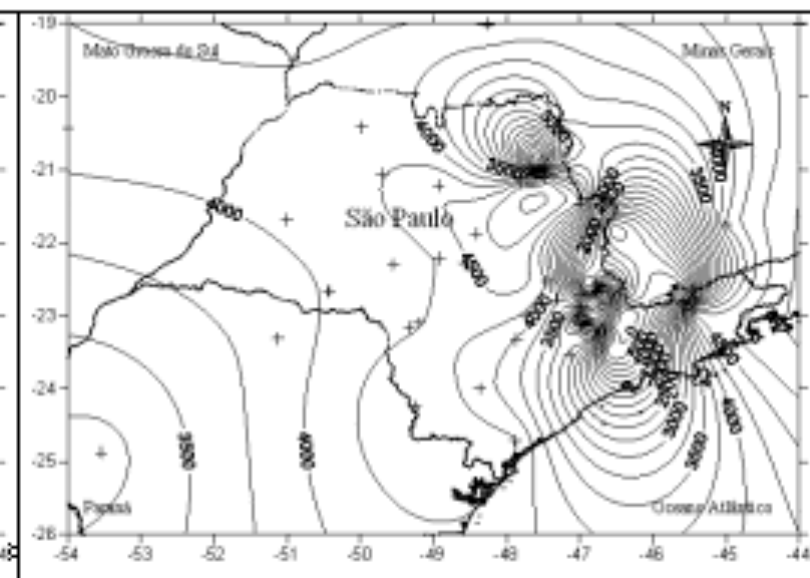
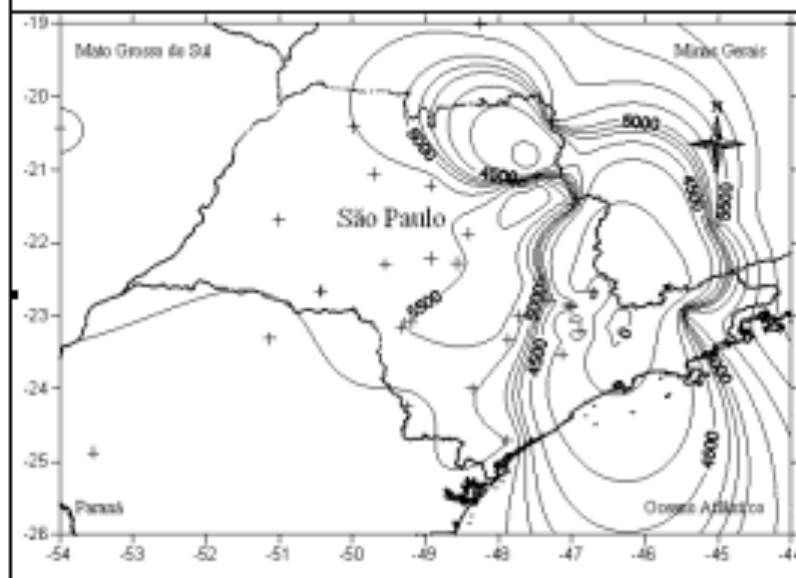


Figura 16 - Produtividade média, mínima e máxima durante as 36 datas de semeadura, obtidas através da simulação normal bivariada, valores referentes a 500 simulações (continuação)





Novembro ☼



Dezembro ☼

