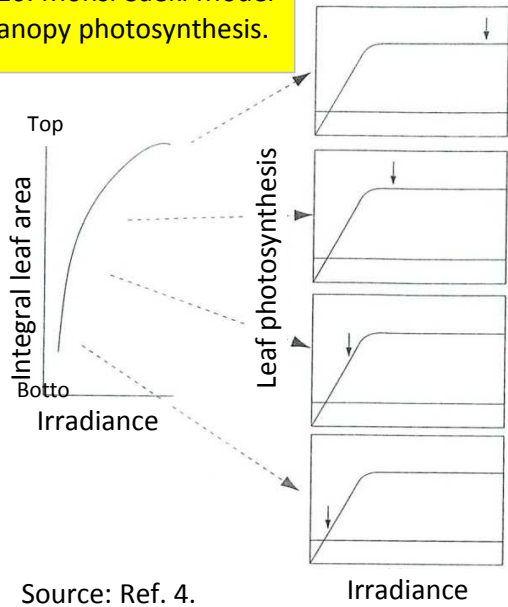
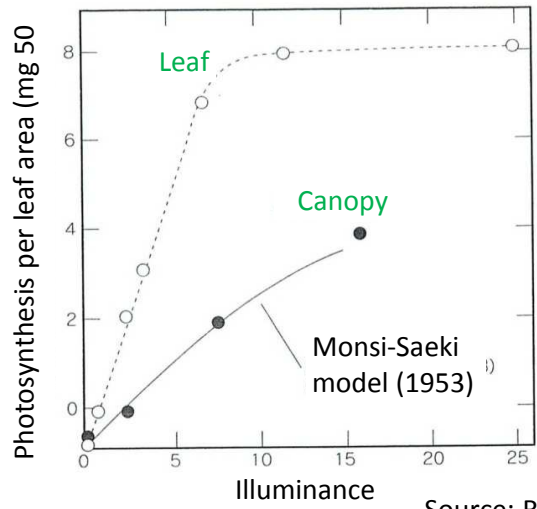


Fig. 20. Monsi-Saeki Model of canopy photosynthesis.



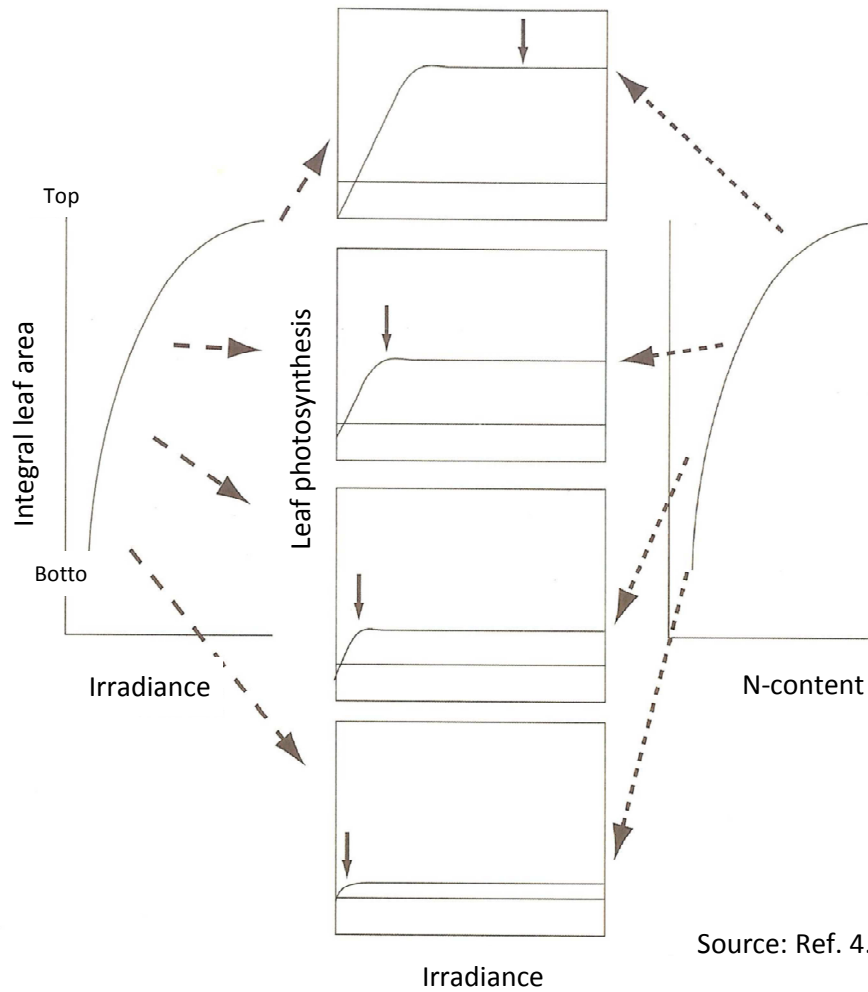
Source: Ref. 4.

Fig. 21. Monsi-Saeki Model as compared with observed canopy and leaf photosynthesis rates.



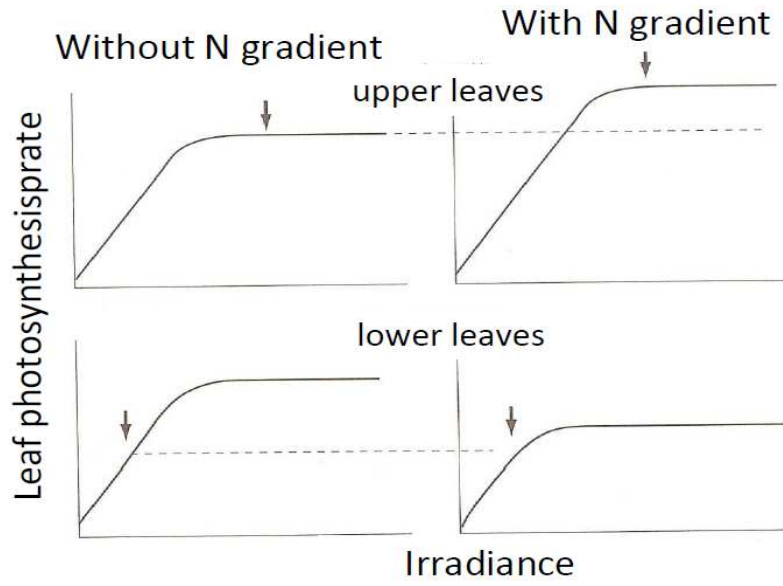
Source: Ref. 4.

Fig. 22. Hirose-Werger Model for photosynthesis with N gradient for optimum light use.



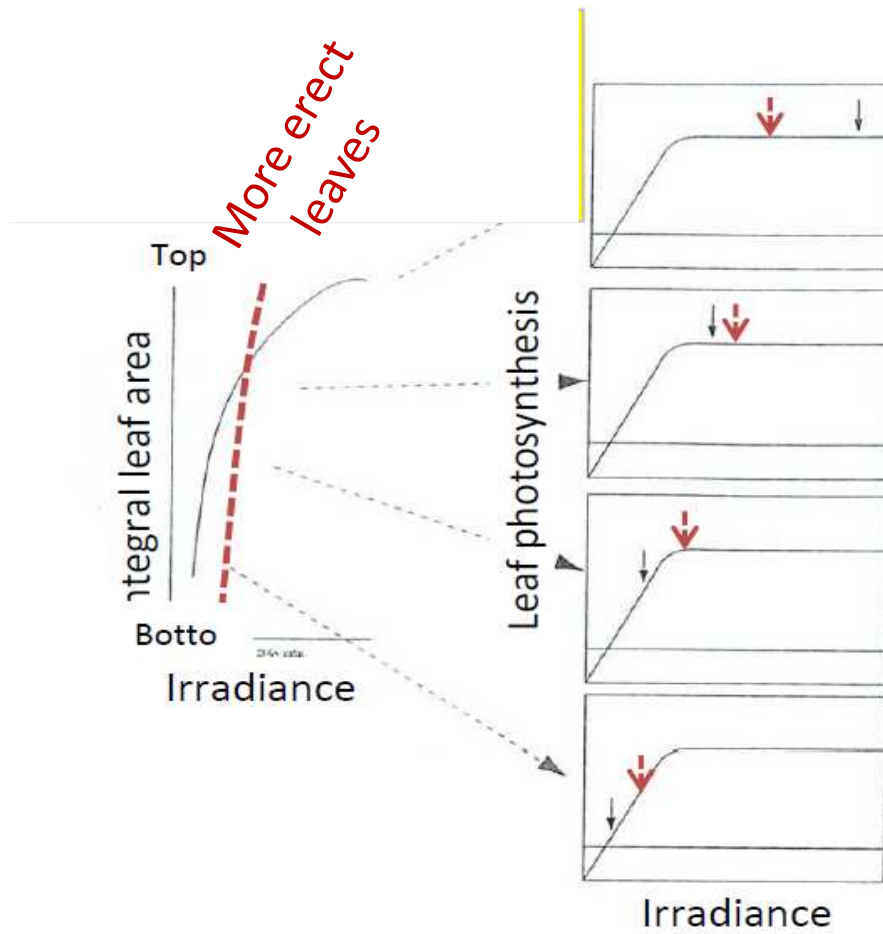
Source: Ref. 4.

Fig. 23. Effect of leaf N gradient on canopy photosynthesis rate.



Source: Ref. 4.

Fig. 24. Effect of altered irradiance profile on canopy photosynthesis



Source: Ref. 4.

Fig. 25. Temporal change in rice plant biomass (A) and nitrogen (B) throughout a growing season

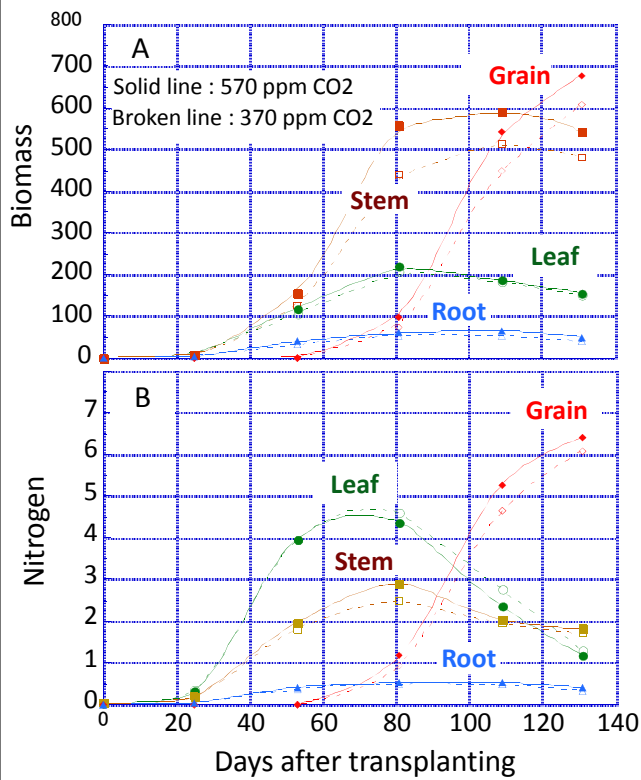


Fig. 26. Relationship between nitrogen accumulated through to the initiation of grains and number of fertile grains at harvest in rice

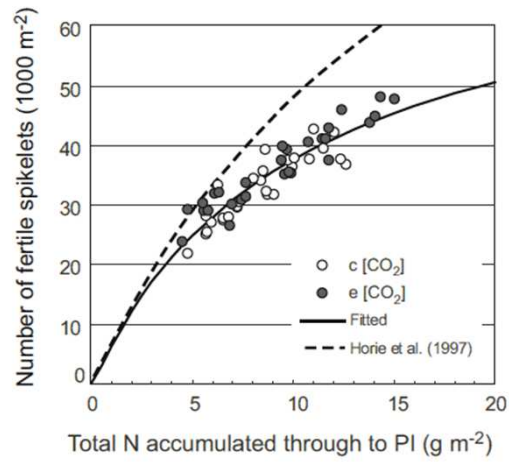
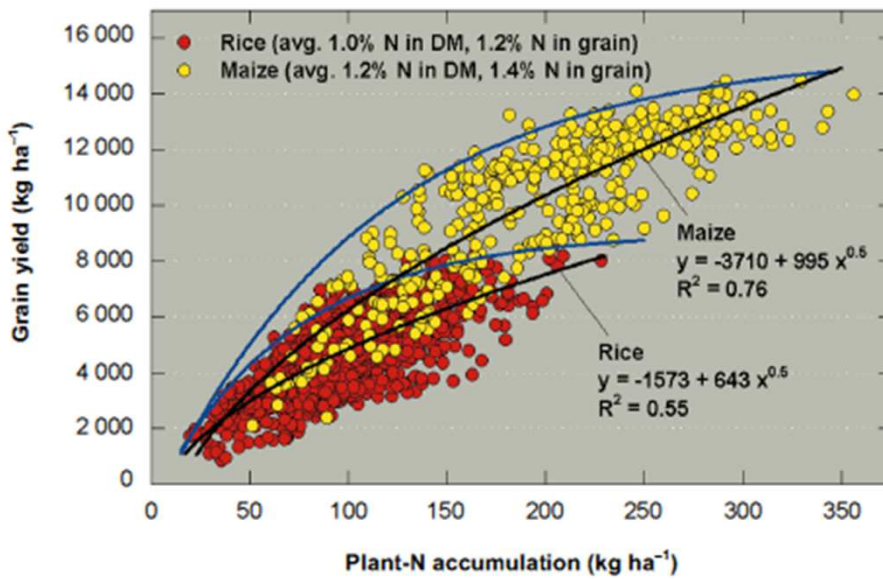


Fig. 27. Relationship between nitrogen accumulated by plants and grain yield in maize



Source: Cassman K.G. et al. (2002). *Ambio* 31, 132-140.

Fig. 28. Response of IR8 and its parents to increased N application. Source: Ref. 3.

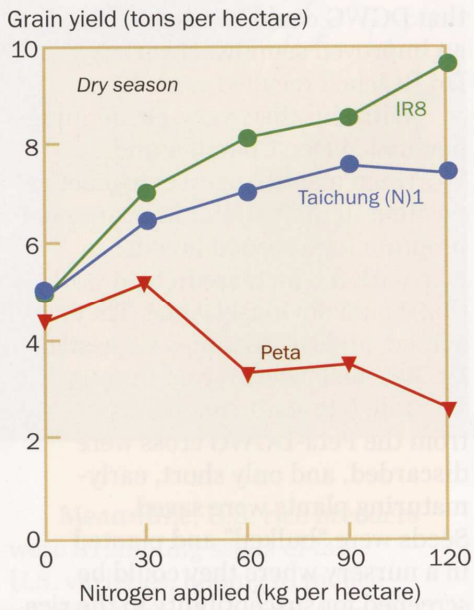


Fig. 29. Response of leaf photosynthesis to leaf nitrogen content in maize, soybean, rice and rice relatives. Source: Ref. 1.

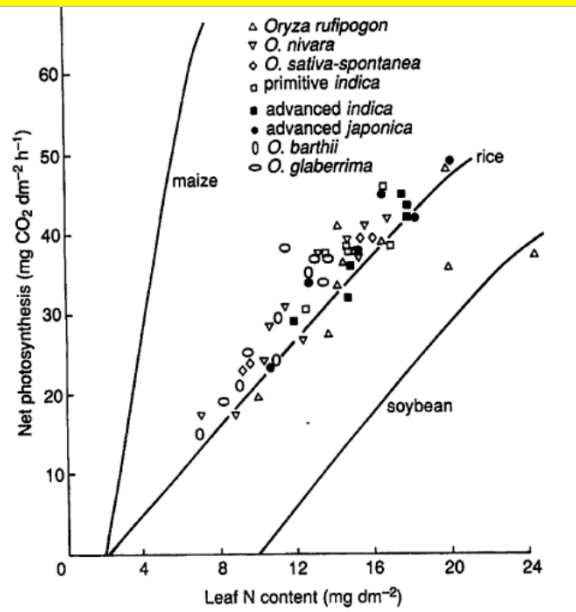


Fig. 30. The rice cultivar IR8 and its parents. Source: Ref. 3.

IR8 PICTURED next to its parents: Peta, a tall, vigorous variety from Indonesia, and the Taiwanese dwarf variety DGWG.

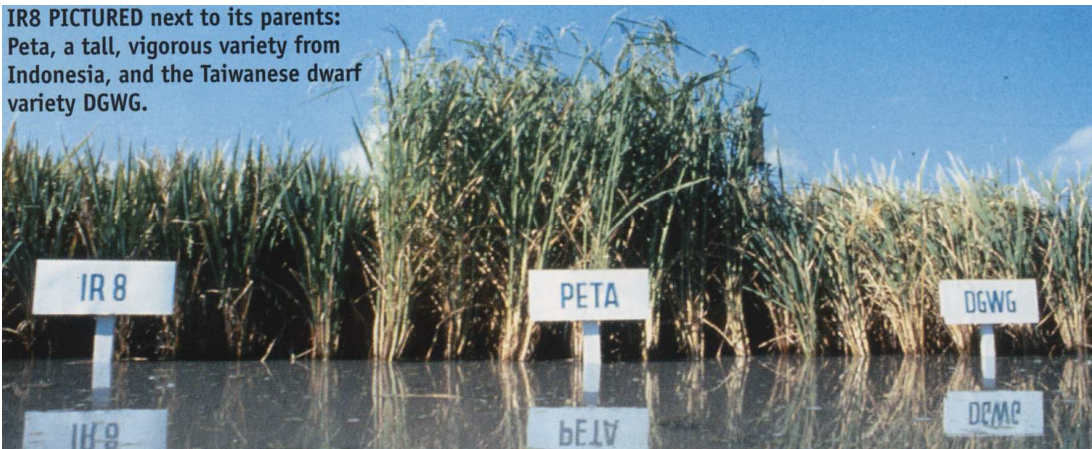


Fig. 31. Relationship between stem height and harvest index in wheat, barley, maize, oat, and rice. Source: Ref. 1.

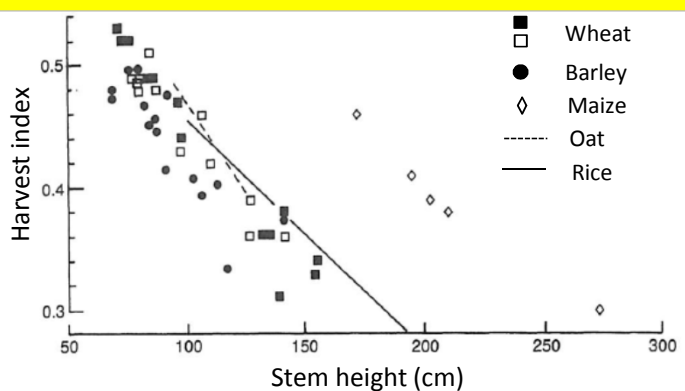


Fig. 32. Increase of harvest index in old and new varieties of wheat, barley, and rice. Source: Ref. 1.

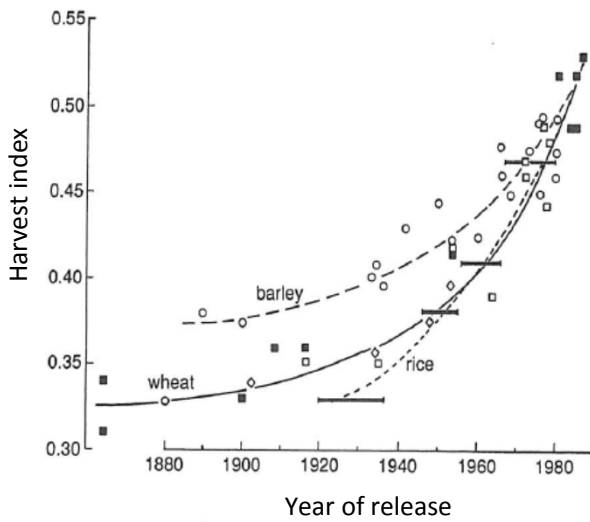


Fig. 33. Relationship between harvest index and growth duration in rice. Source: Akita (1989). in L.-R. Pollard ed., "Progress in irrigated rice research" (IRRI), pp. 41-73.

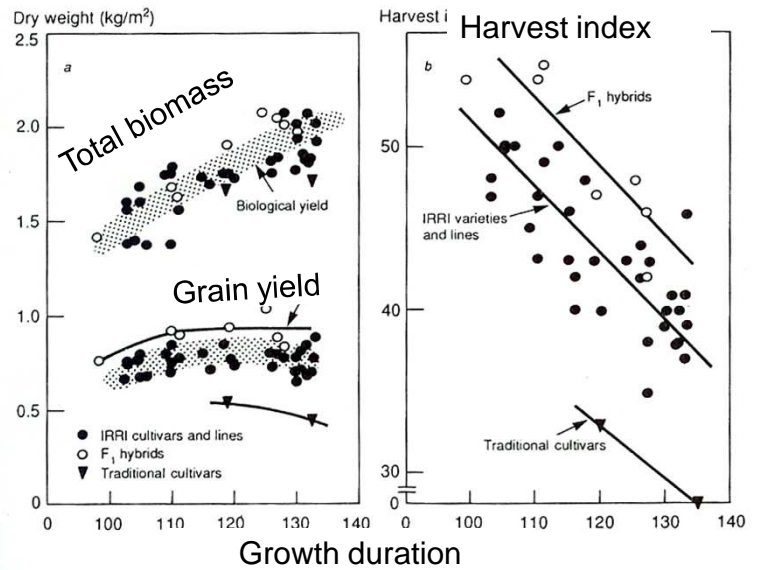


Fig. 34. Traditional and modern rice cropping systems in Mekong Delta of Vietnam

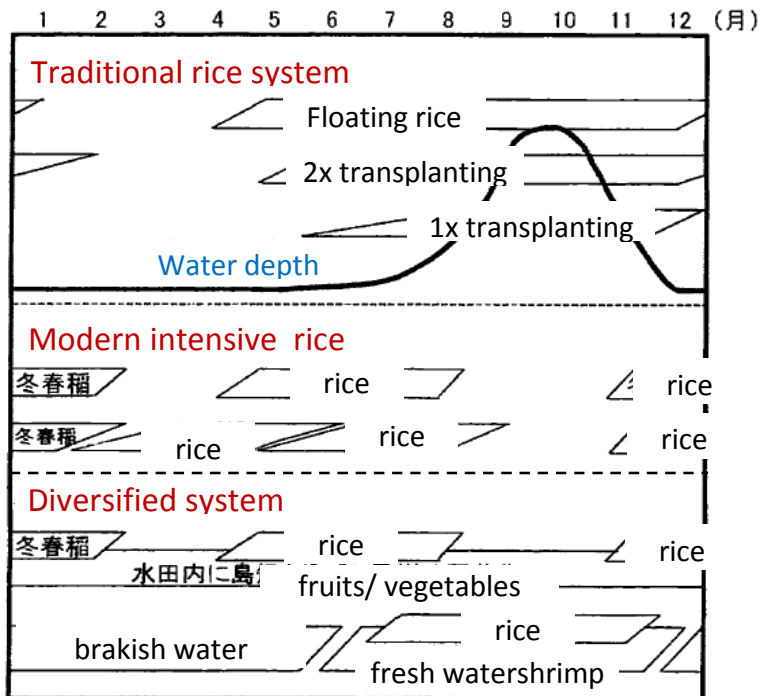


Fig. 35. Daylength at various latitudes. Source: Ref. 4.

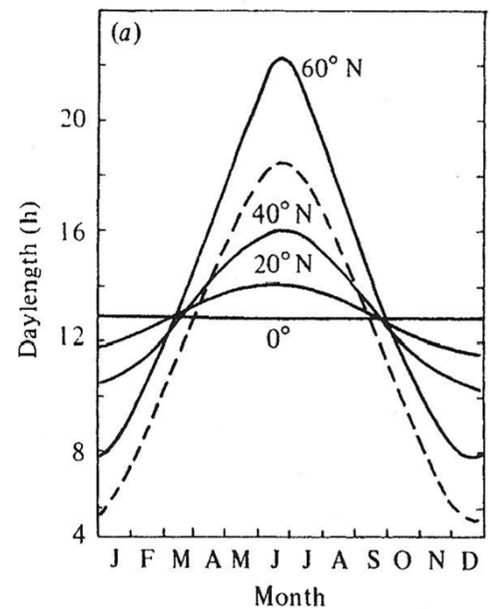


Fig. 36. Effect of solar irradiance on yield of rice. Source:

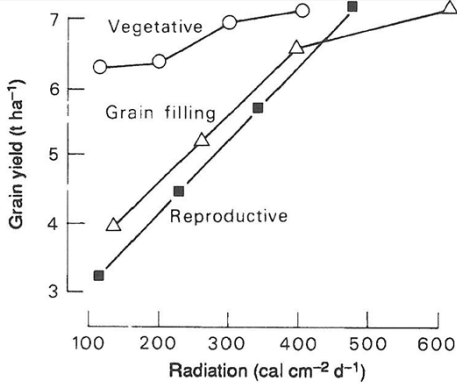


Fig. 37. Rice yield in Thailand.

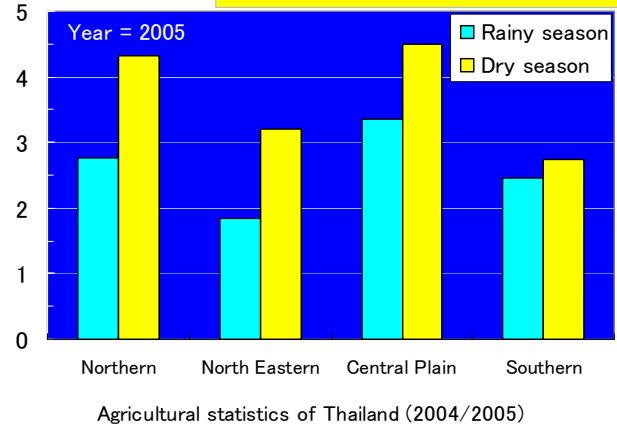
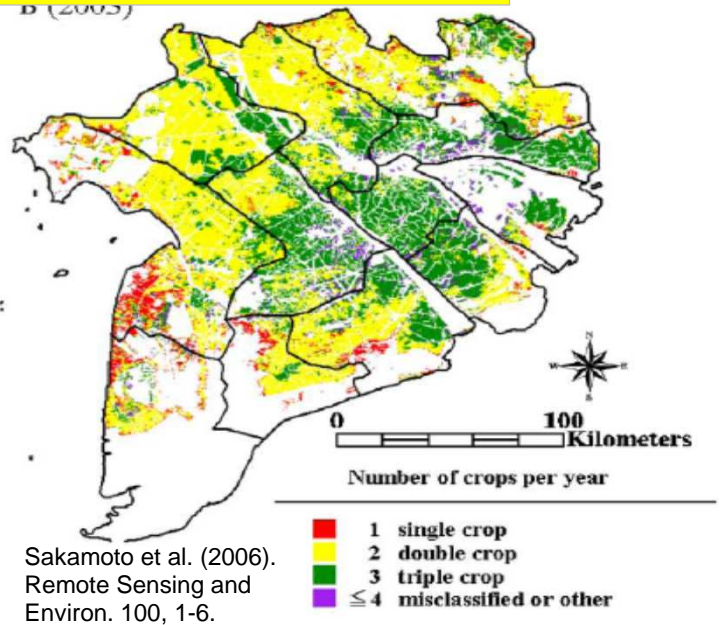
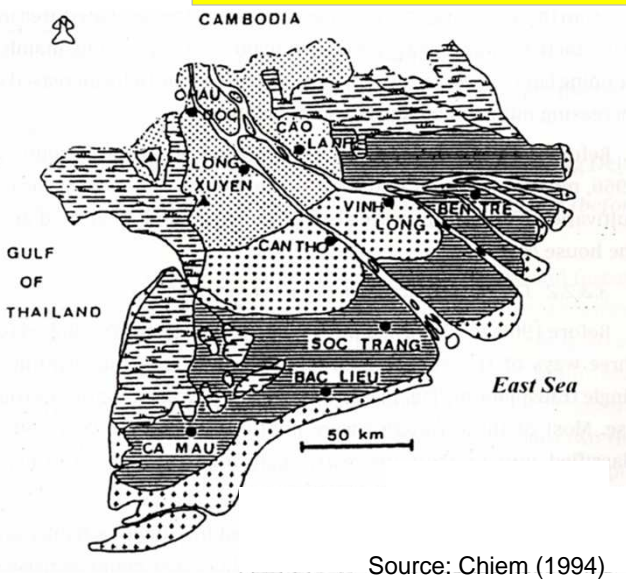
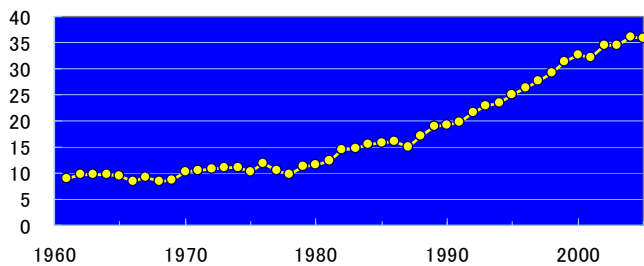


Fig. 38. Rice cropping systems in early 1970's (L) and 2003 (R) in Vietnamese Mekong



Rice production (Million t, paddy) in Vietnam



Rice yield (t/ha, paddy) in Vietnam

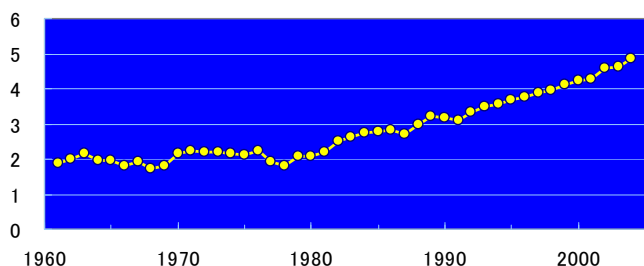


Fig. 39. Rice production in Vietnam.

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<http://faostat.fao.org/site/291/default.aspx>