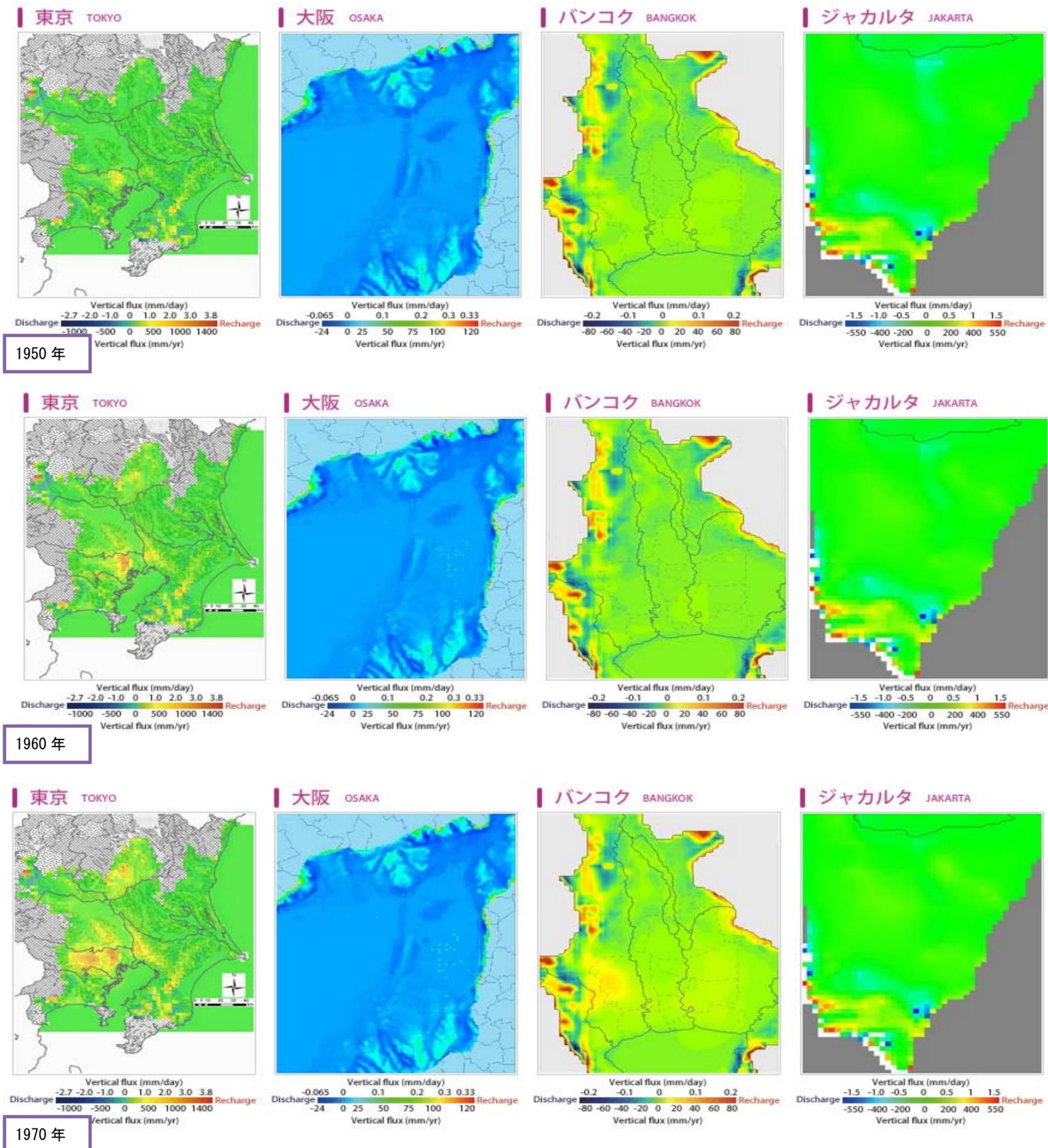
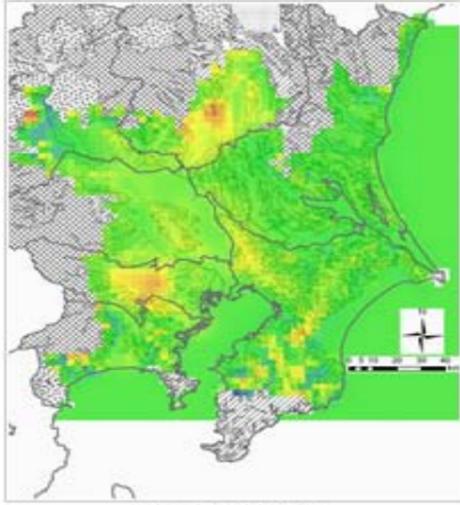


● 4都市の地下水涵養量

雨水が地下水にしみ込むことを涵養（かんよう）と言い、地下水の揚水量と関係しています。東京やバンコクは、揚水域の移動（都市近郊→山間部）で涵養域も動いています。大阪は揚水規制により大きな変化はみられません。ジャカルタは都市近郊の揚水量が増加し、涵養量も増加しています。

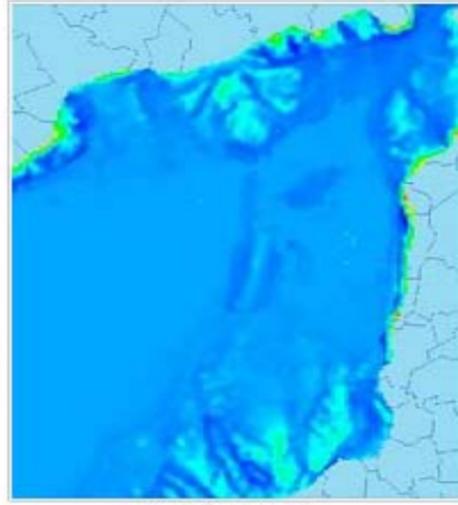


東京 TOKYO



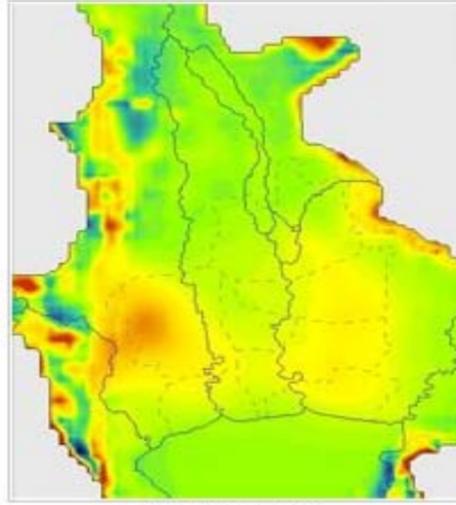
Vertical flux (mm/day)
 Discharge -2.7 -2.0 -1.0 0 1.0 2.0 3.0 3.8 Recharge
 Vertical flux (mm/yr)
 -1000 -500 0 500 1000 1400

大阪 OSAKA



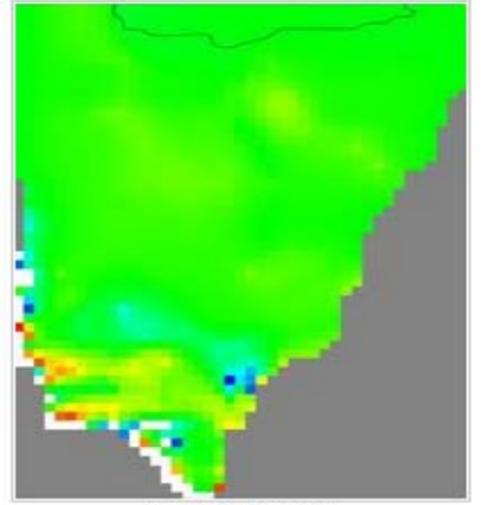
Vertical flux (mm/day)
 Discharge -0.065 0 0.1 0.2 0.3 0.33 Recharge
 Vertical flux (mm/yr)
 -24 0 25 50 75 100 120

バンコク BANGKOK



Vertical flux (mm/day)
 Discharge -0.2 -0.1 0 0.1 0.2 Recharge
 Vertical flux (mm/yr)
 -80 -60 -40 -20 0 20 40 60 80

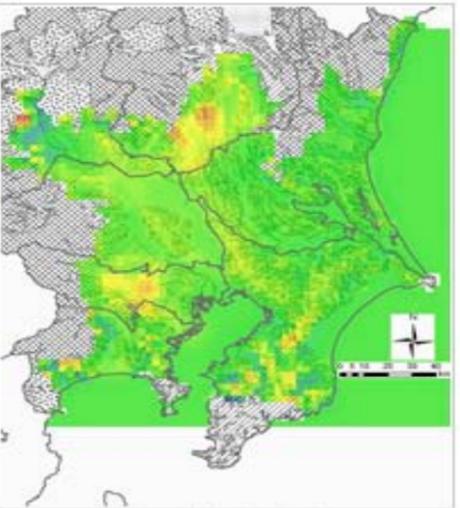
ジャカルタ JAKARTA



Vertical flux (mm/day)
 Discharge -1.5 -1.0 -0.5 0 0.5 1 1.5 Recharge
 Vertical flux (mm/yr)
 -550 -400 -200 0 200 400 550

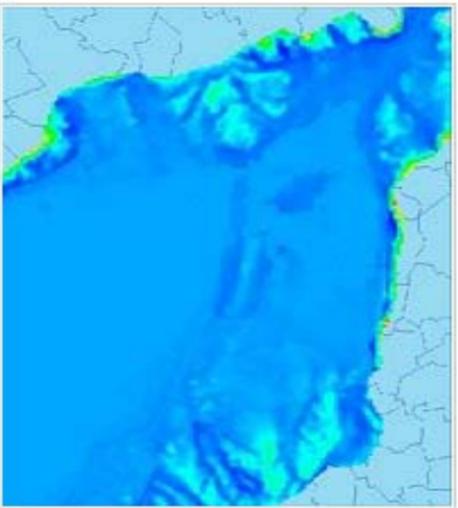
1980年

東京 TOKYO



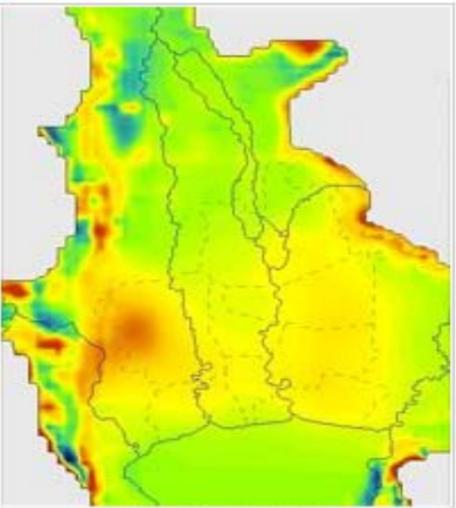
Vertical flux (mm/day)
 Discharge -2.7 -2.0 -1.0 0 1.0 2.0 3.0 3.8 Recharge
 Vertical flux (mm/yr)
 -1000 -500 0 500 1000 1400

大阪 OSAKA



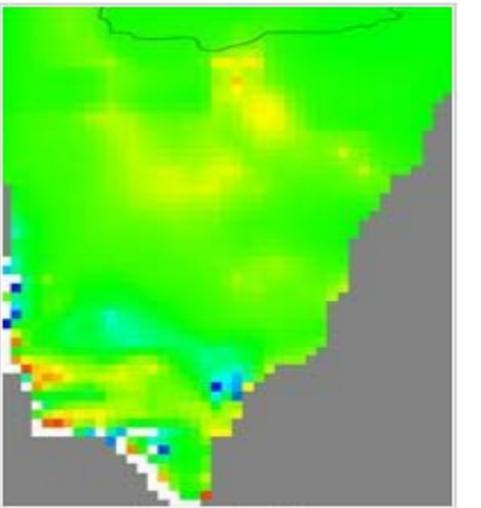
Vertical flux (mm/day)
 Discharge -0.065 0 0.1 0.2 0.3 0.33 Recharge
 Vertical flux (mm/yr)
 -24 0 25 50 75 100 120

バンコク BANGKOK



Vertical flux (mm/day)
 Discharge -0.2 -0.1 0 0.1 0.2 Recharge
 Vertical flux (mm/yr)
 -80 -60 -40 -20 0 20 40 60 80

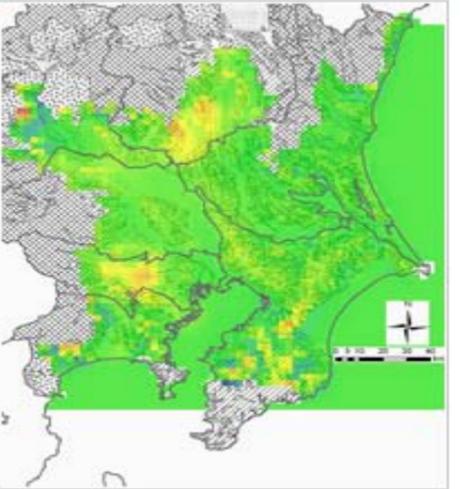
ジャカルタ JAKARTA



Vertical flux (mm/day)
 Discharge -1.5 -1.0 -0.5 0 0.5 1 1.5 Recharge
 Vertical flux (mm/yr)
 -550 -400 -200 0 200 400 550

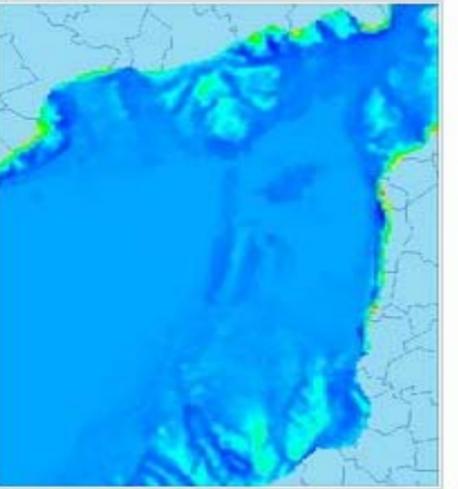
1990年

東京 TOKYO



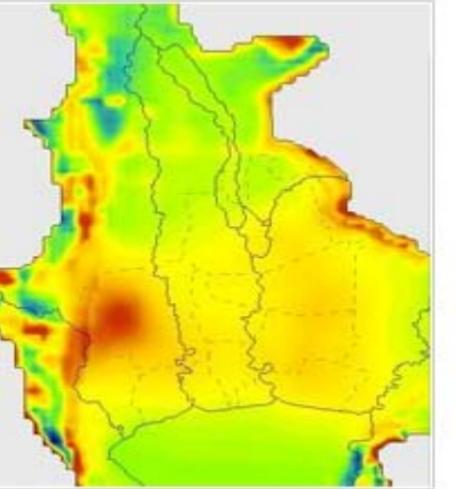
Vertical flux (mm/day)
 Discharge -2.7 -2.0 -1.0 0 1.0 2.0 3.0 3.8 Recharge
 Vertical flux (mm/yr)
 -1000 -500 0 500 1000 1400

大阪 OSAKA



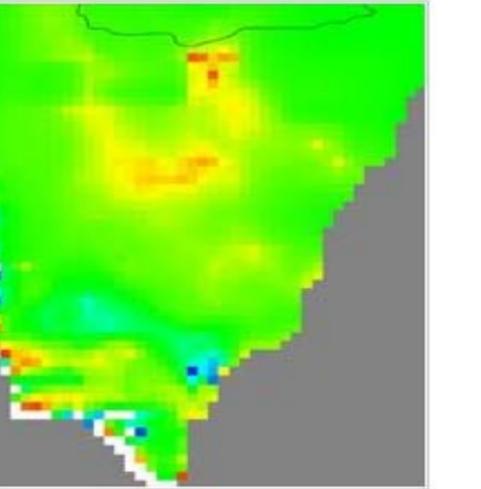
Vertical flux (mm/day)
 Discharge -0.065 0 0.1 0.2 0.3 0.33 Recharge
 Vertical flux (mm/yr)
 -24 0 25 50 75 100 120

バンコク BANGKOK



Vertical flux (mm/day)
 Discharge -0.2 -0.1 0 0.1 0.2 Recharge
 Vertical flux (mm/yr)
 -80 -60 -40 -20 0 20 40 60 80

ジャカルタ JAKARTA



Vertical flux (mm/day)
 Discharge -1.5 -1.0 -0.5 0 0.5 1 1.5 Recharge
 Vertical flux (mm/yr)
 -550 -400 -200 0 200 400 550

2000年