

New study on quantifying **Water Resource Vulnerability**

$$C(t) = C\left\{r \cdot \frac{Q}{W_D}\right\} = \exp_1(-r \cdot k) \exp\left(-\frac{P}{Q} \cdot \frac{W_D}{P}\right)$$

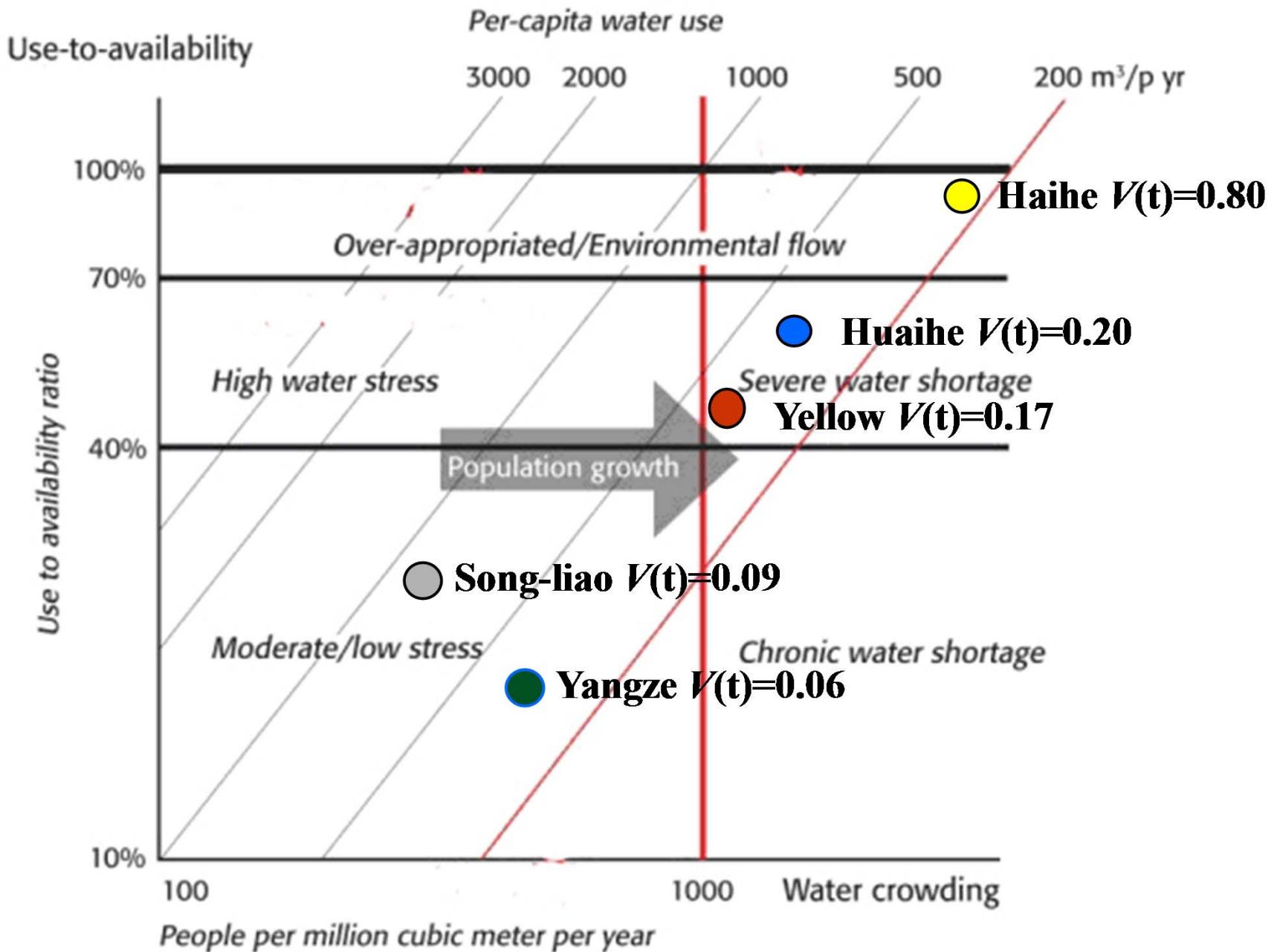
r – Use to availability ratio (%)

P/Q - water crowding (p / Million m³/ yr)

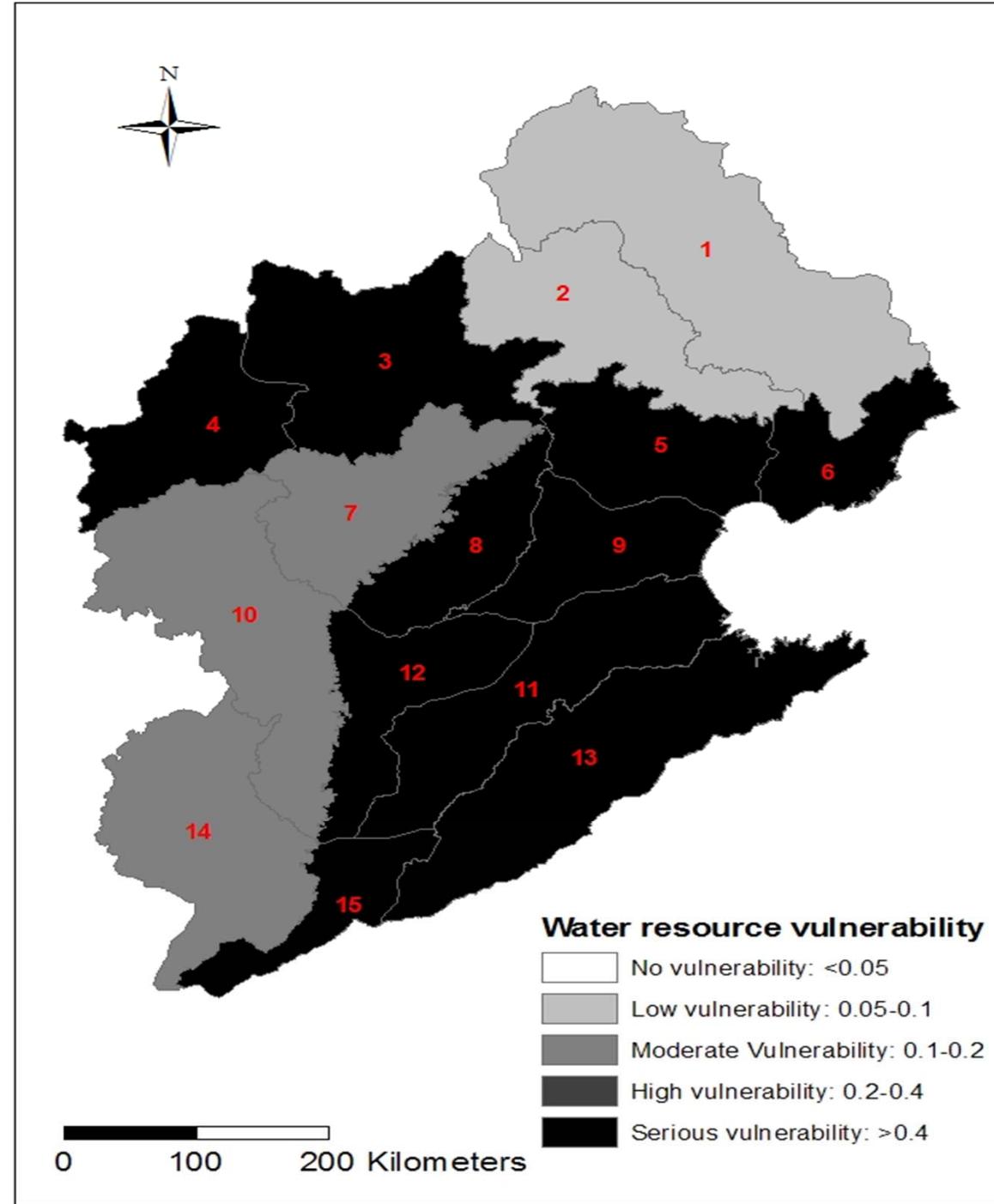
W_D/P - per capita water use (m³/p yr)

Categories of water resource vulnerability

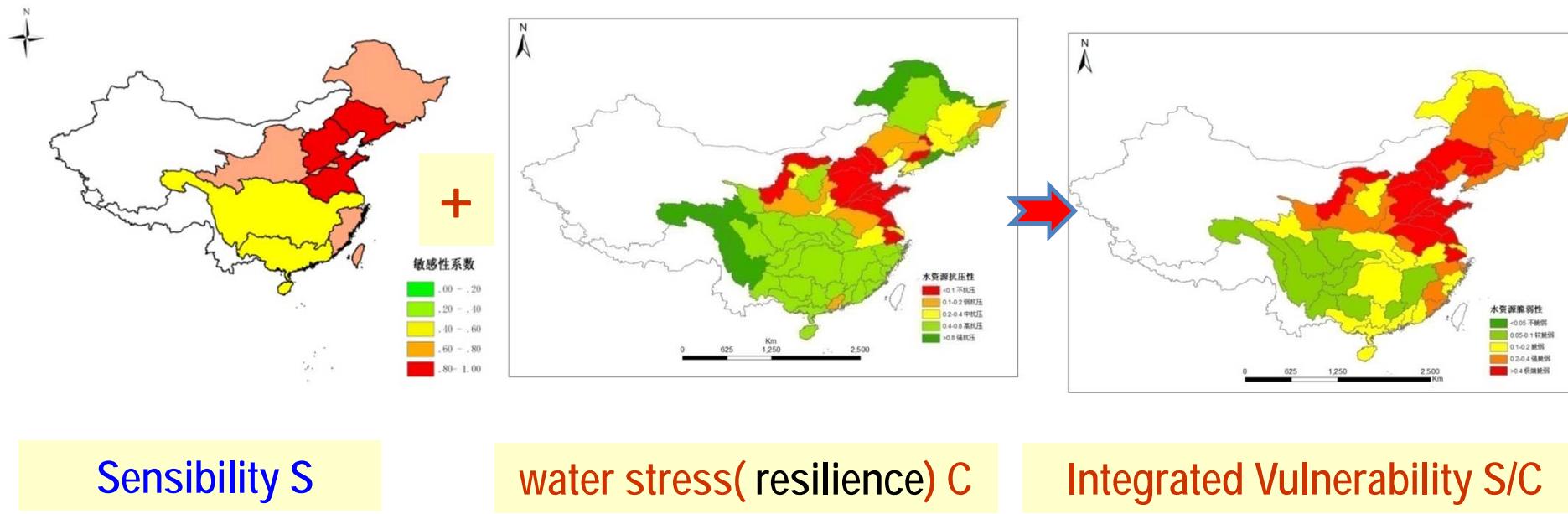
no vulnerability	low vulnerability	moderate vulnerability	high vulnerability	Serious vulnerability
<0.05	0.05-0.1	0.1-0.2	0.2-0.4	>0.4



Water Resource Vulnerability in Hai River



New Study on mapping vulnerability



2000年代表年（1980–2000年序列）