

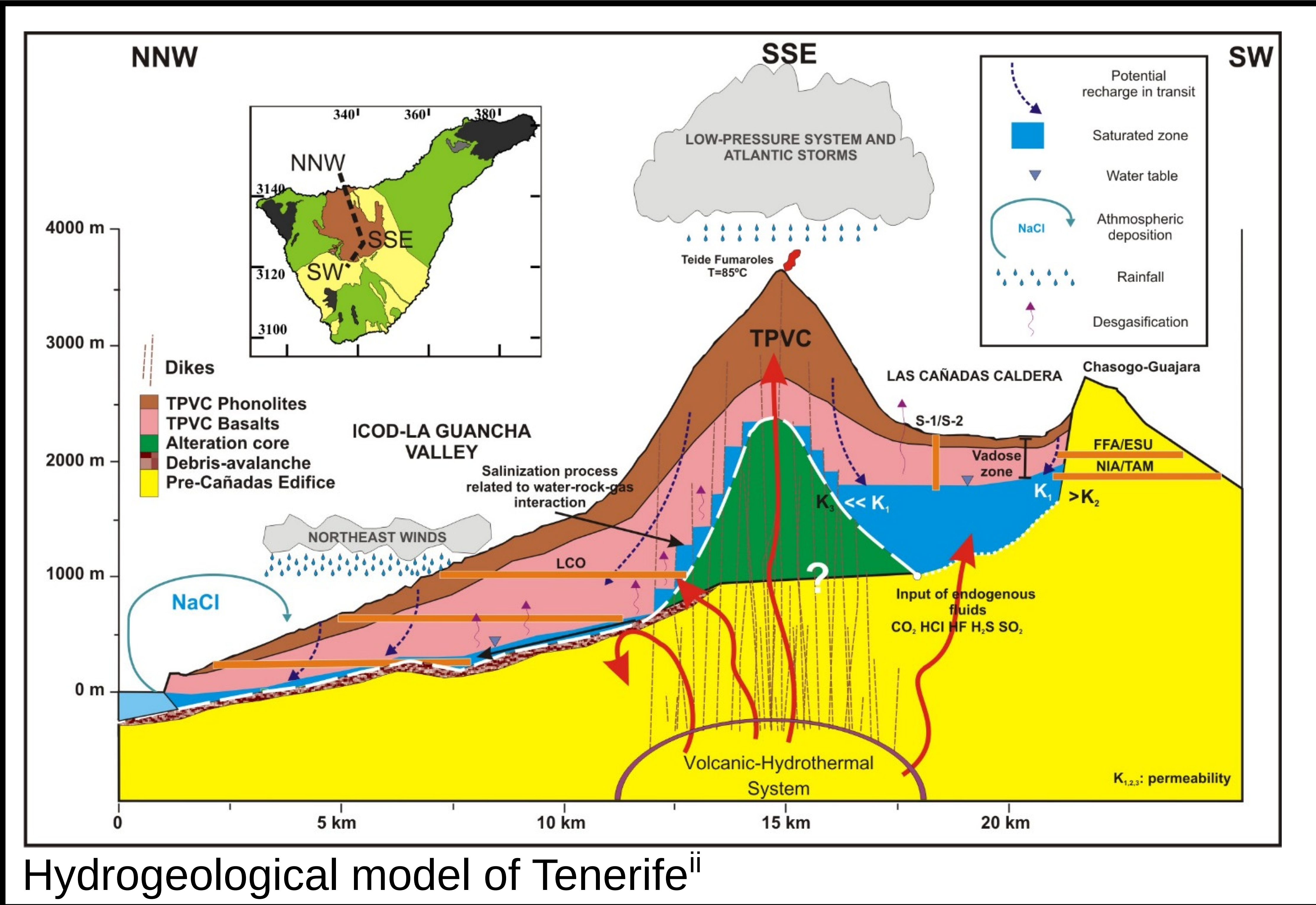
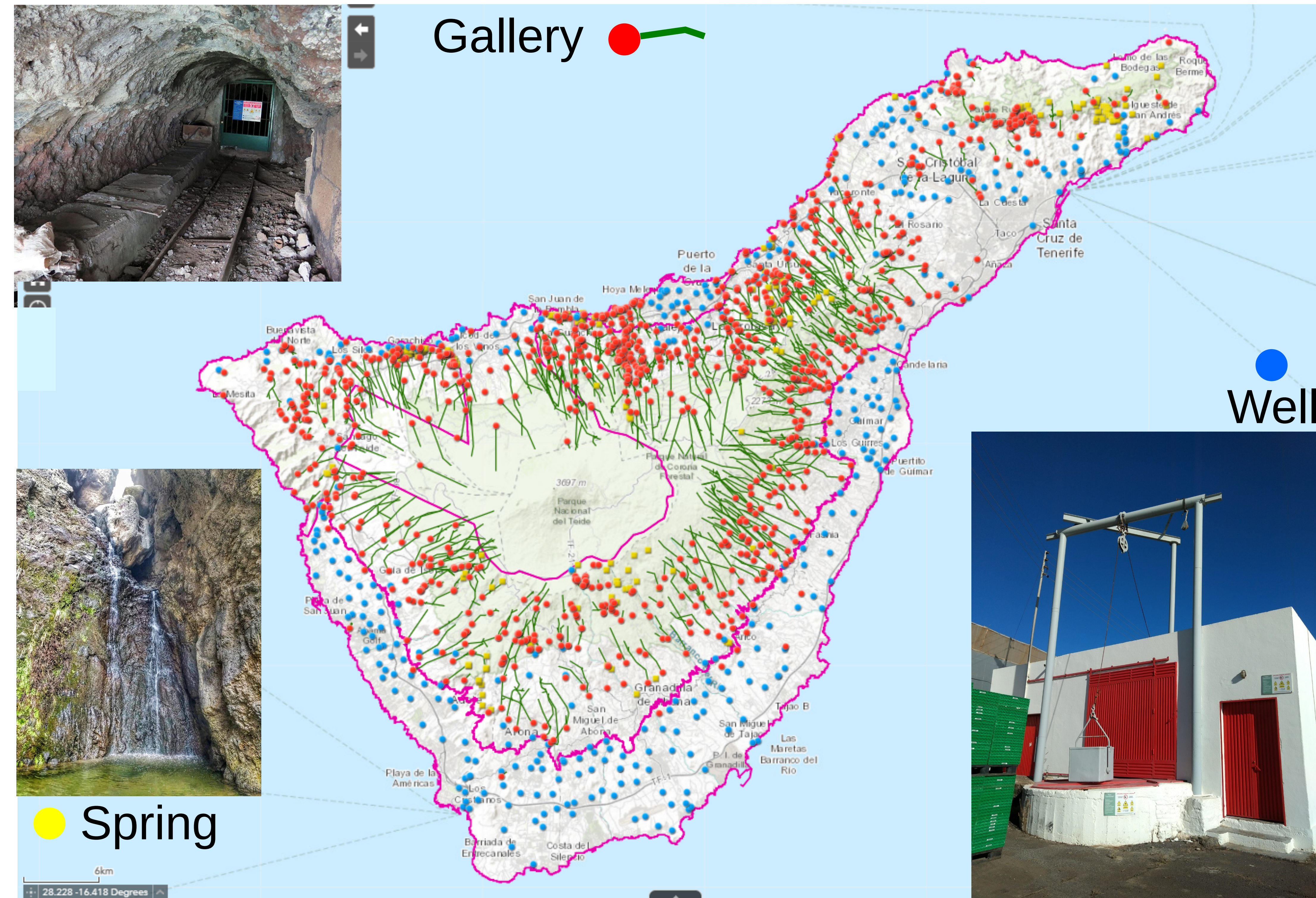
An over-used ocean island coastal aquifer, Tenerife (Spain) - tracing inputs for improved resource management

Beverley Coldwell, María Cordero, Nemesio M. Pérez, Cecilia Amonte, María Asensio-Ramos, Gladys V. Melián, Eleazar Padrón

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Instituto Tecnológico y de Energías Renovables, Granadilla de Abona, 38600, Santa Cruz de Tenerife, Canary Islands

Location of aquifer extraction points, natural and man-made (Consejo Insular de Aguas de Tenerife)



Max $^{87}\text{Sr}/^{86}\text{Sr}$ composition of basaltic host rock: 0.7043

$^{87}\text{Sr}/^{86}\text{Sr}$ of seawater: 0.7092

7 sample points
> max basalt
(groundwater)

2 sample points
below max basalt yet
>600mg/l Cl

ⁱ Custodio et al., 2017. SASMIE project
ⁱⁱ Marrero Diaz et al., 2015. Bull Volc 77-86

80-90% of water used is
aquifer-derived
Extraction > recharge = net
loss $\sim 2\text{km}^3$ 2000-2010ⁱ
Decadal recovery periodsⁱ

Well closure
parameters:
Cl >600mg/L,
Conductivity
>1000 $\mu\text{S}/\text{cm}$.

