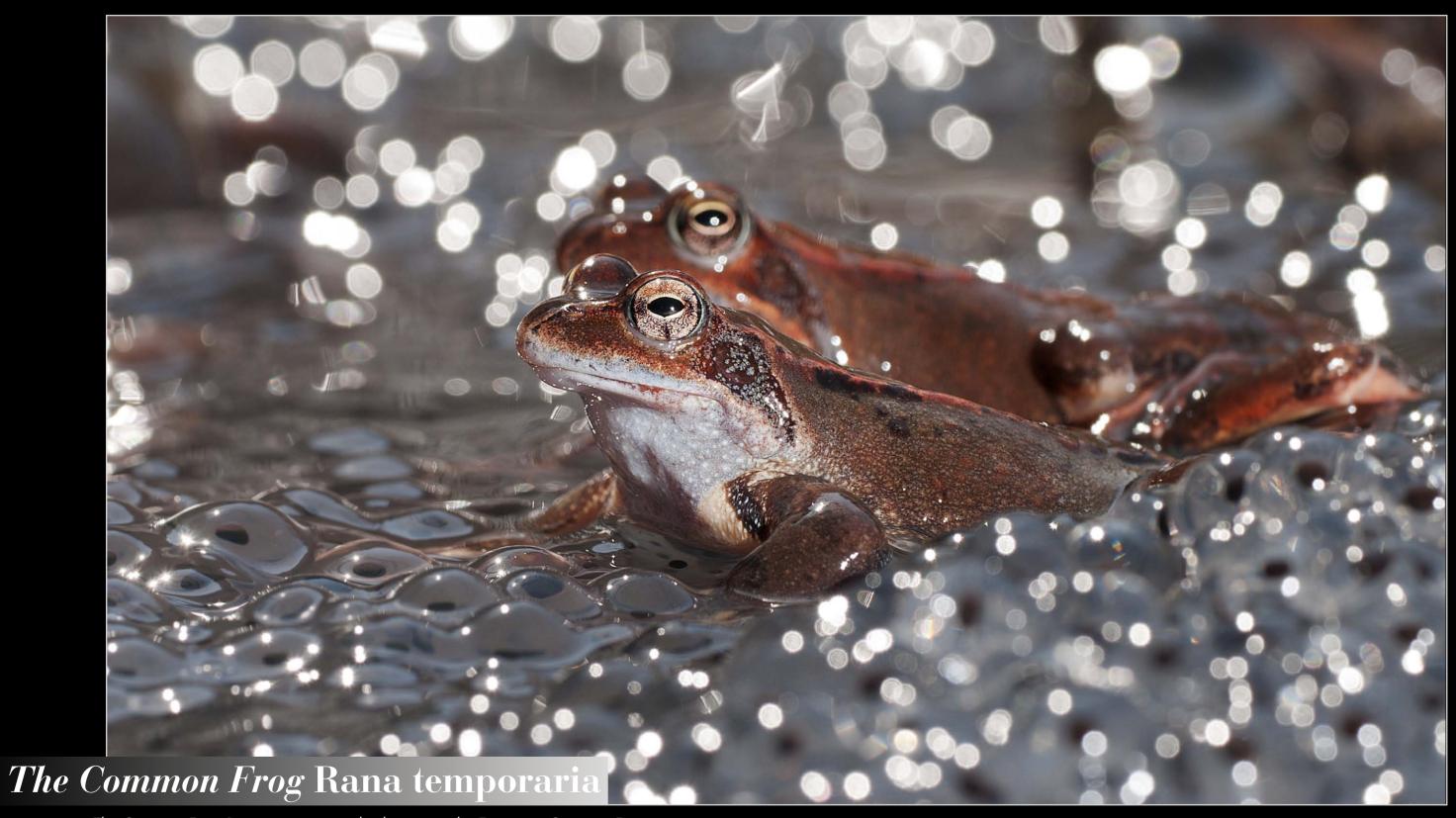
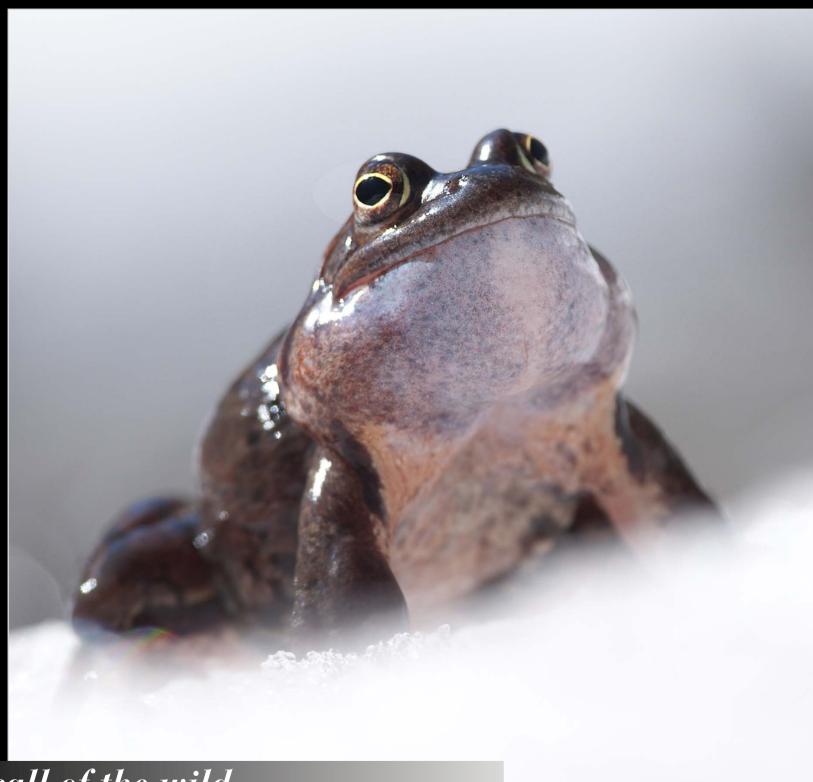
Beauty of the Beast



The frenzied mating of Common Frogs in the frozen waters of a remote mountain pond in Northern Italy - a truly unique photographic record



The Common Frog Rana temporaria, also known as the European Common Frog or European Common Brown Frog, is found throughout much of Europe as far north as well north of the Arctic Circle in Scandinavia and as far east as the Urals, except for most of Iberia, southern Italy, and the southern Balkans. The farthest west it can be found is Ireland, where it has long been thought (erroneously) to be an entirely introduced species.



The call of the wild

A large male - just emerged from hibernation - stands its ground in the snow, loudly croaking to advertise its presence, stake its territory and find a willing female to start the yearly mating ritual. The average weight of Rana temporaria is 22.7 grs. (0.80 oz). Females, as it commonly happens, are usually slightly larger than males.

TEXTS AND PHOTOGRAPHS BY CLAUDIO PIA

Maggiorasca, Aveto Valley - a land of females, so it's a tough battle for them craggy hills and wooded slopes, thick to win the back of the female for

place here every year in the month of It's a great effort for her, and at the March, among the wide, silent end of the mating ritual one can see expanses of ice and snow...Emerging a lot of dead frogs in the water. from hibernation and completely disregarding the one goal – mating.

one hour, carrying all the me this is heaven!

pond - if I have picked the right day begin to see a few pairs of frogs Claudio Pia is a nature photographer females carry the males on their back. his work visit www.claudiopia.it

orthern Italy, Mount Males are much more numerous than with hazelnut bushes and oak trees. mating. The female can carry the male on her back for a few days, until A veritable miracle of nature takes she decides to spawn into the water.

freezing What is truly extraordinary about this temperatures, hundreds of specimens small place is the astounding number of the Common Frog Rana temporaria of frogs that show up here – it's hard meet and jostle in the ice with only to believe so many hundreds of Rana temporaria can survive in a wood with such a small lake. This This "miracle" lasts only a few days - population must actually be one of I think a maximum of four - and to find the largest in Italy. The surface of this myself in the right place at the right little alpine lake is often completely time I have to drive for 70 kms and covered with a thick layer of eggs, walk in knee-deep snow for at least and for a nature photographer like

photographic gear on my back - Then, after three or four days of sometimes even having to pull it along continuously mating in the halfon a small sled. And every time I risk frozen, icy waters of the pond, the to get there and find out that the frogs frogs disappear among the are still hibernating..it's a bit of a bet! submerged leaves and it becomes quite difficult to spot even a single As I'm getting close to the tiny alpine one of them. Until next year...

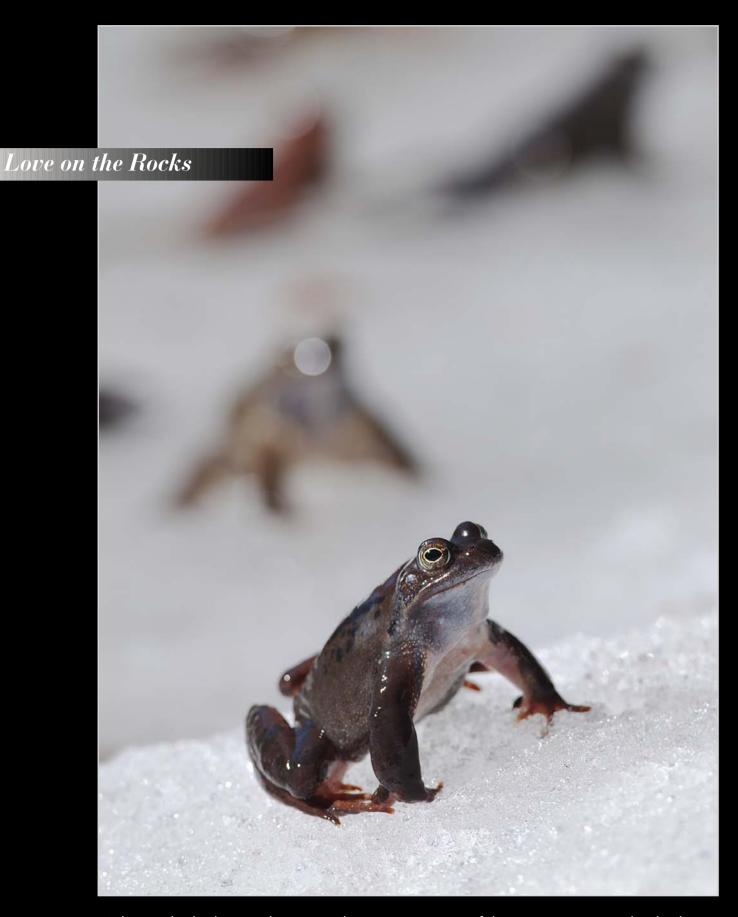
hopping around in the snow. The based in Northern Italy. To see more of



The first males scan their frozen surroundings, looking for a prospective mate. Males are distinguishable from females due to hard swellings (called nuptial pads) on their first finger. These are used for gripping females during mating. Also, males' throats often turn white during the mating season. A final differentiation can be the color—during the mating season, males are generally light and greyish in colour, whereas the female is deep brown or red.



Mating begins in the still semi-frozen water, with several males competing to copulate with a single female. Common frogs breed in shallow, still, fresh water bodies such as ponds, with breeding commencing in March. The adults congregate in the ponds, where the males compete for females. The courtship ritual involves croaking, and a successful male grasps the female under the forelegs.



Males on the lookout in the snow. The mating season of the species is exceedingly short - just a week in March, after which the frogs move back to their terrestrial habitat.



A female among clusters of freshly-laid eggs. The actual spawning of the species typically occurs at night, but the courtship rituals take also place during daytime.







Wrestling for love

In a blind frenzy of desire, a male tries to embrace a pair which is already locked in *amplexus*. Females of this species are very often mated to exhaustion, drowning during the embrace or succumbing immediately after spawning. Notice the remarkable difference in color between the two grey-brown males and the red female.



A male (on top) and a female are locked in a successful embrace, floating in a veritable ocean of fecundated eggs. The females, which are generally larger than the males, lay between 1,000 and 2,000 gelatinous, transparent, round eggs which float in large clusters.



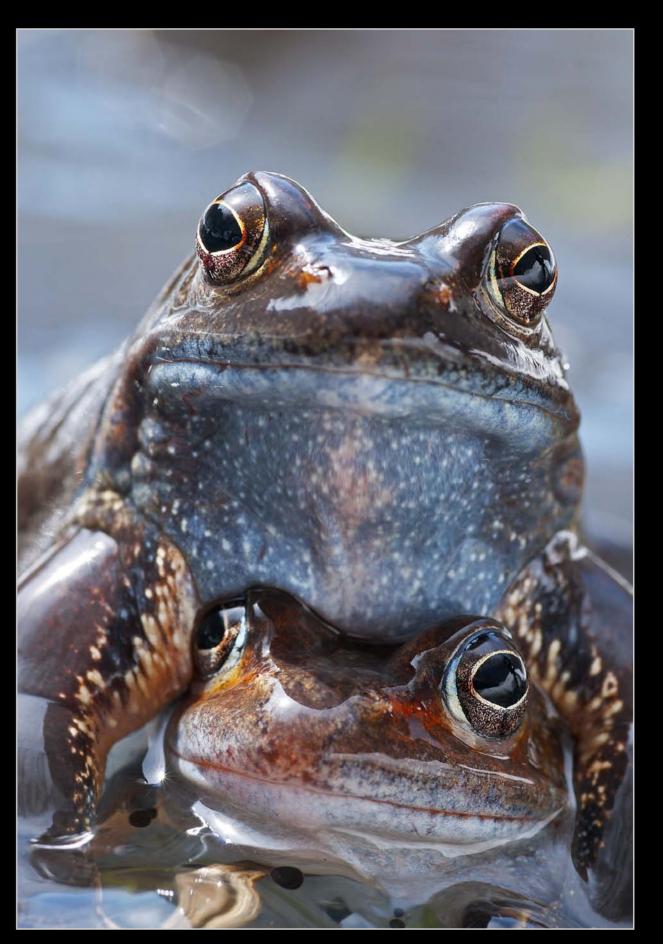
A careful scan of the image reveals an almost inextricable mass of frogs and fecundated eggs with no less than seven males and a single female. The Common Frog is found throughout much of Europe as far north as northern Scandinavia inside the Arctic Circle and as far east as the Urals, except for most of Iberia, southern Italy, and the southern Balkans.



Adult Common Frogs have a body length of 6 to 9 centimetres (2.4 to 3.5 in) with olive green, grey-brown, brown, olive-brown, grey, yellowish or rufous backs and flanks. However, common frogs can also lighten and darken their skin in order to match their surroundings. More unusual colourations are occasionally observed - both black and red individuals have been found - and male common frogs have been known to turn greyish blue in the mating season.



Scores of mating frogs, locked in embrace, now dot the half-frozen surface of the small mountain lake, with thick masses of eggs already covering its surface.



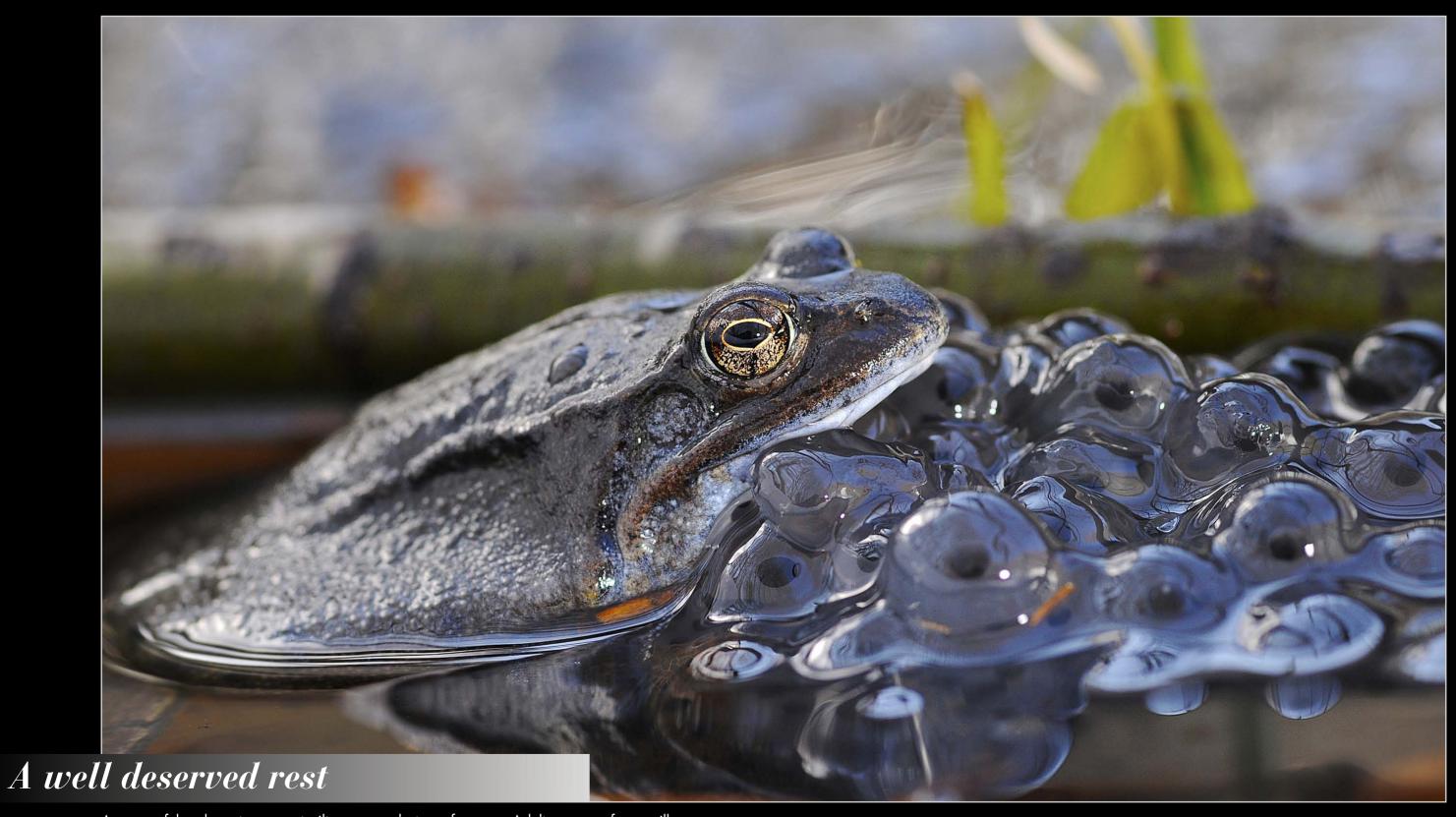
A close up portrait of a mating pair of *Rana temporaria* firmly locked in *amplexus*, with the male on top and the female below. The lock can last for several hours.



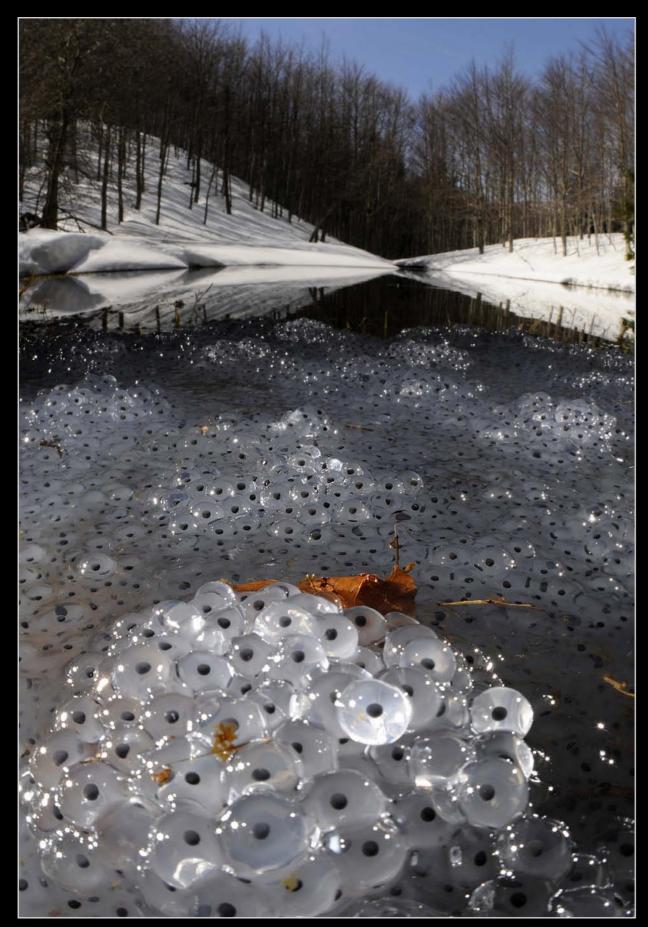
The flanks, limbs and backs of this species are covered with irregular dark blotches, and it usually sports a chevron-shaped spot on the back of the neck. The frogs' underbellies are white or yellow (occasionally more orange in females) and can be speckled with brown or orange. Their eyes are brown with transparent horizontal pupils, and they have transparent inner eyelids to protect their eyes while underwater, as well as a darker "mask" which covers their eyes and eardrums.



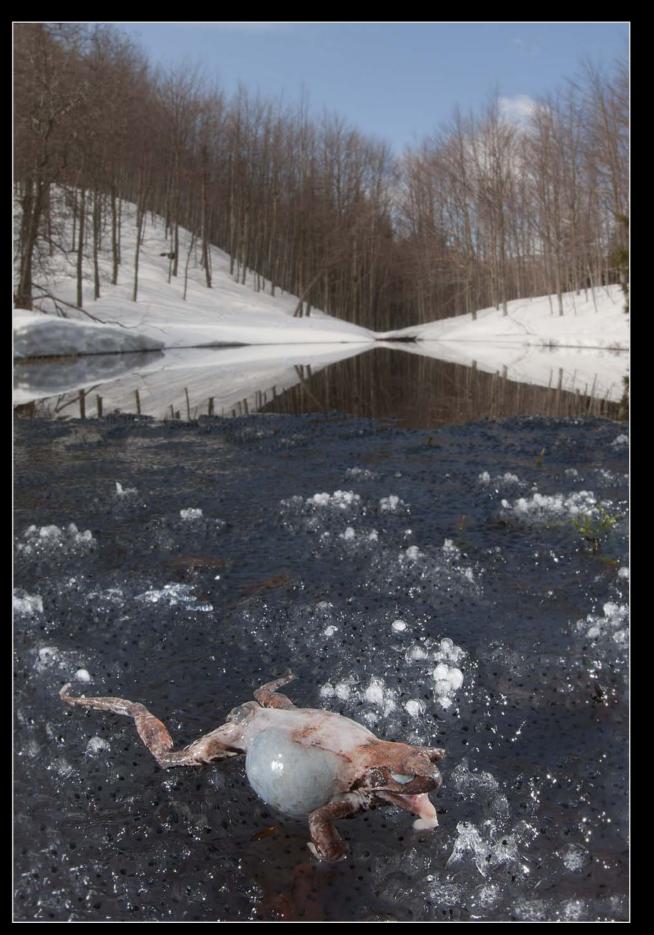
A hapless *Rana temporaria* female is being overwhelmed by several male suitors, all trying forcefully - and simultaneously - to lock her in the mating embrace. Many Common Frog females will meet their death in the icy waters of the ponds in this manner during the breeding ritual.



A successful male rests momentarilty among clusters of spawn. Adult common frogs will feed on any invertebrate of a suitable size, although they do not feed at all during the breeding season. Favorite foods include insects, snails, slugs and worms. Their feeding habits change during their lives; older frogs will exclusively feed on land, but young ones will also feed in the water. Tadpoles are mostly herbivores, feeding on algae, detritus and some plants, although they will also eat other animals in small amounts.



At the end of the mass breeding ritual most of the small pond's surface will be covered in the unmistakable gelatinous masses of eye-like, spawned eggs.



The remains of the day - a female which died of exhaustion lies among masses of spawn. The water is icing up again - but the survival of the colony has once more been assured.