Crystal Data: Monoclinic. *Point Group*: 2/*m*. As radial and dendritic aggregates of bladed crystals to 200 μm, flattened on [001] and elongated along [010], displaying {001}, {100}, {010}, and {110}.

Physical Properties: *Cleavage*: n.d. *Tenacity*: Brittle. *Fracture*: Uneven. Hardness = n.d. D(calc.) = 3.22

Optical Properties: Transparent. *Color*: Pale green. *Streak*: n.d. *Luster*: Vitreous. *Optical Class*: Biaxial (–). $\alpha = 1.698(2)$ $\beta = 1.725(3)$ $\gamma = 1.737(3)$ 2V(meas.) = 66(2)° 2V(calc.) = 66.5° *Pleochroism*: *X* = light bluish green, *Y* = bluish green, *Z* = bluish green. *Absorption*: X < Y ≈ Z. *Dispersion*: Strong, *r* > *v*. *Orientation*: *Y* = *b*, *X* ^ *c* = 26°.

Cell Data: *Space Group*: $P2_1/m$. $a = 5.717(2)$ $b = 6.586(2)$ $c = 5.623(3)$ $\beta = 88.45(3)°$ Z = 2

X-ray Powder Pattern: Sadamisaki Peninsula, Ehime Prefecture, Japan.
5.7155 (100), 2.5596 (62), 2.4929 (37), 2.8432 (28), 2.8547 (22), 2.0304 (17), 2.0016 (17)

Chemistry:

	(1)
MnO	37.78
CuO	35.74
Cl	18.42
H_2O	[13.01]
- O = Cl	4.16
Total	100.79

(1) Sadamisaki Peninsula, Ehime Prefecture, Japan; average of 7 electron microprobe analyses supplemented by Raman spectroscopy, H_2O calculated from stoichiometry; corresponds to $Mn_{1.085}Cu_{0.915}Cl_{1.058}(OH)_{2.942}$.

Mineral Group: Atacamite family.

Occurrence: A secondary mineral formed by reaction between seawater and primary ore minerals (hausmannite, tephroite, alleghanyite, rhodonite, rhodochrosite, copper, chalcocite) in greenschist facies, metamorphosed, volcanogenic massive sulfide deposits.

Association: Cuprite, kutnohorite, malachite, chrysocolla, misakiite.

Distribution: From the Sadamisaki Peninsula, Ehime Prefecture, Japan.

Name: For the Sea of *Iyo*, located near the Sadamisaki Peninsula, Japan.

Type Material: National Museum of Nature and Science, Tokyo, Japan (M43864) and the Mineral Sciences Department, Natural History Museum of Los Angeles County, Los Angeles, California, USA (66625).

References: (1) Nishio-Hamane, D., K. Momma, M. Ohnishi, N. Shimobayashi, R. Miyawaki, N. Tomita, R. Okuma, A.R. Kampf, and T. Minakawa (2017) Iyoite, $MnCuCl(OH)_3$ and misakiite, $Cu_3Mn(OH)_6Cl_2$: new members of the atacamite family from Sadamisaki Peninsula, Ehime Prefecture, Japan. Mineral. Mag., 81(3), 485-498. (2) (2017) Amer. Mineral., 102, 2342-2343 (abs. ref. 1).