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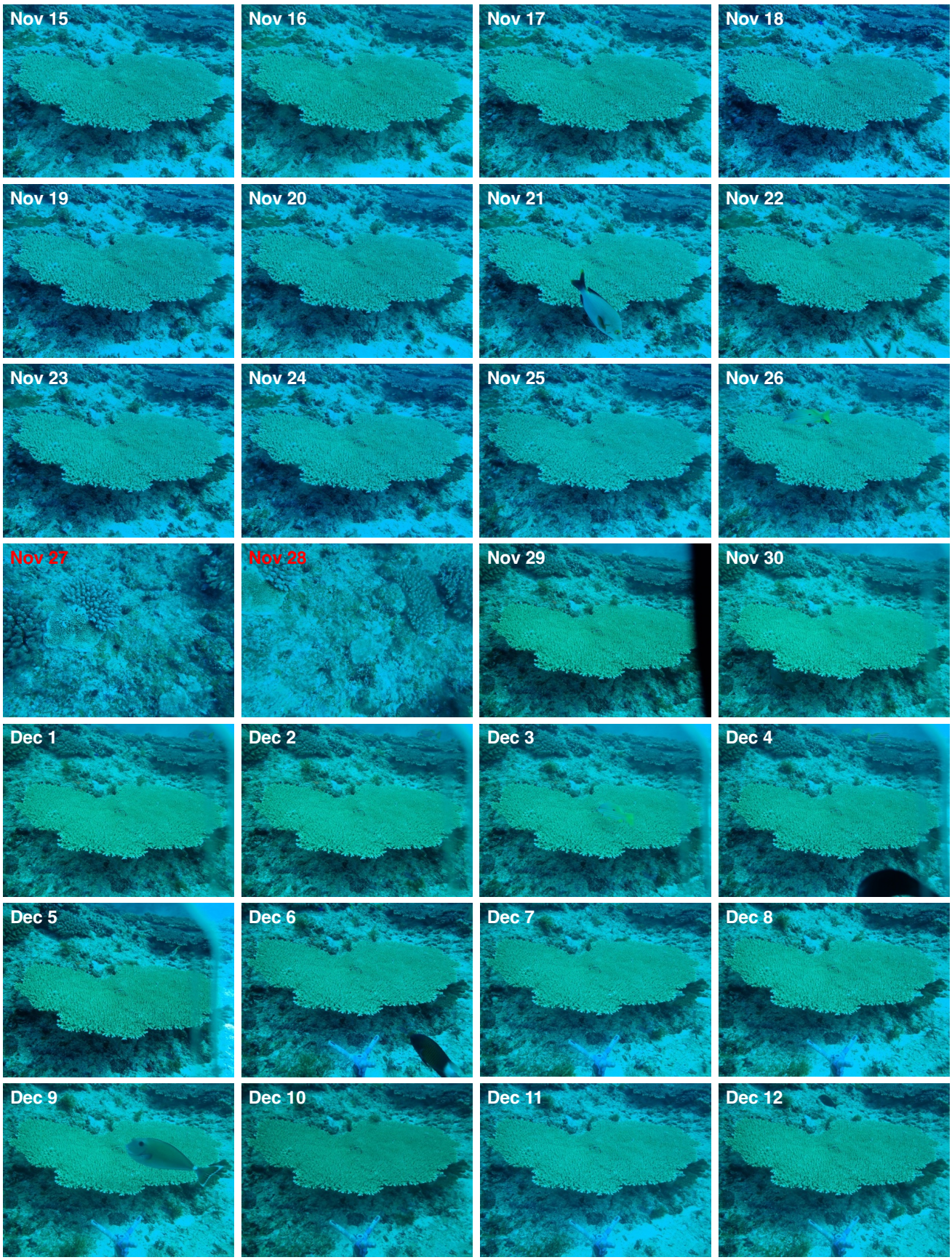
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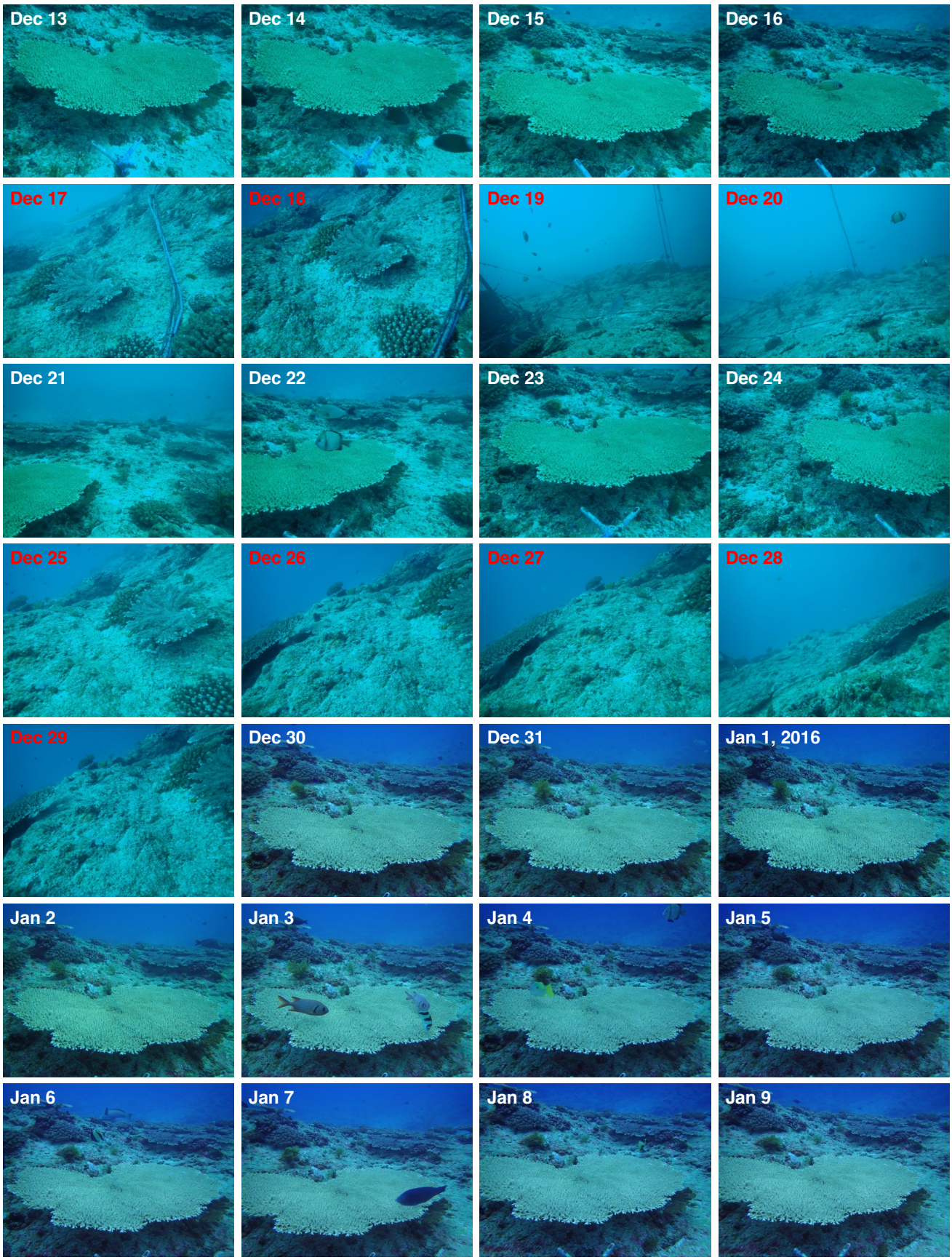
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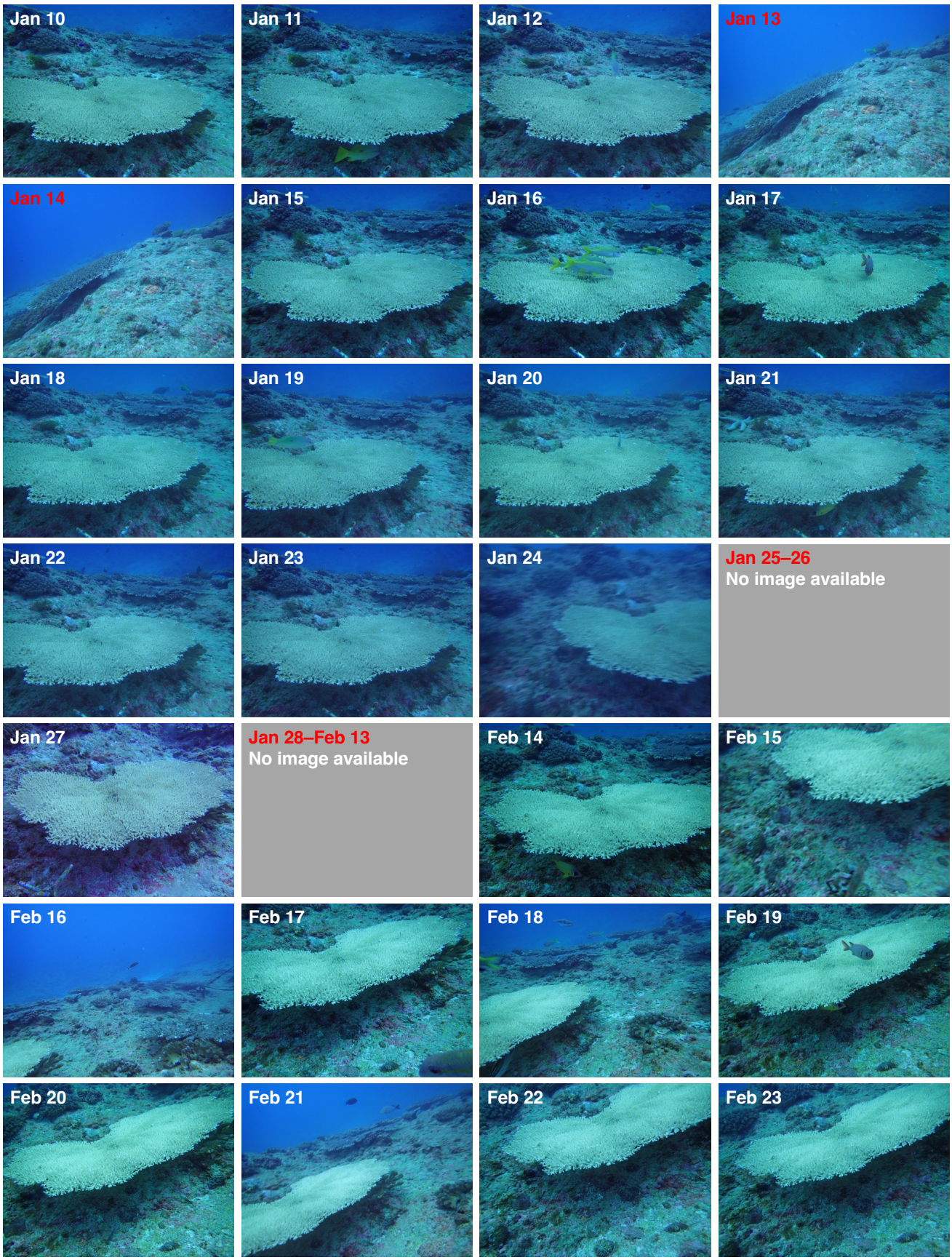
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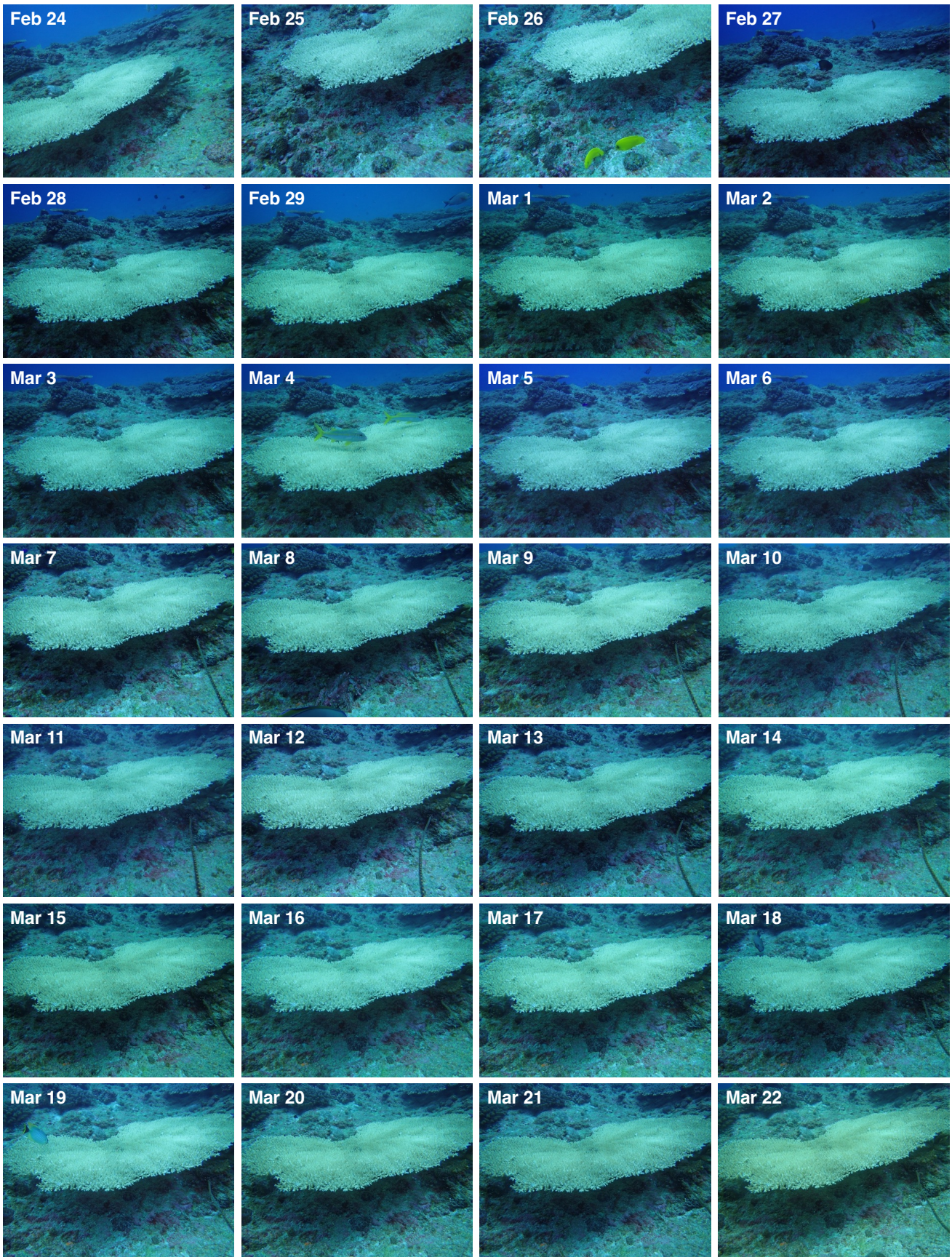
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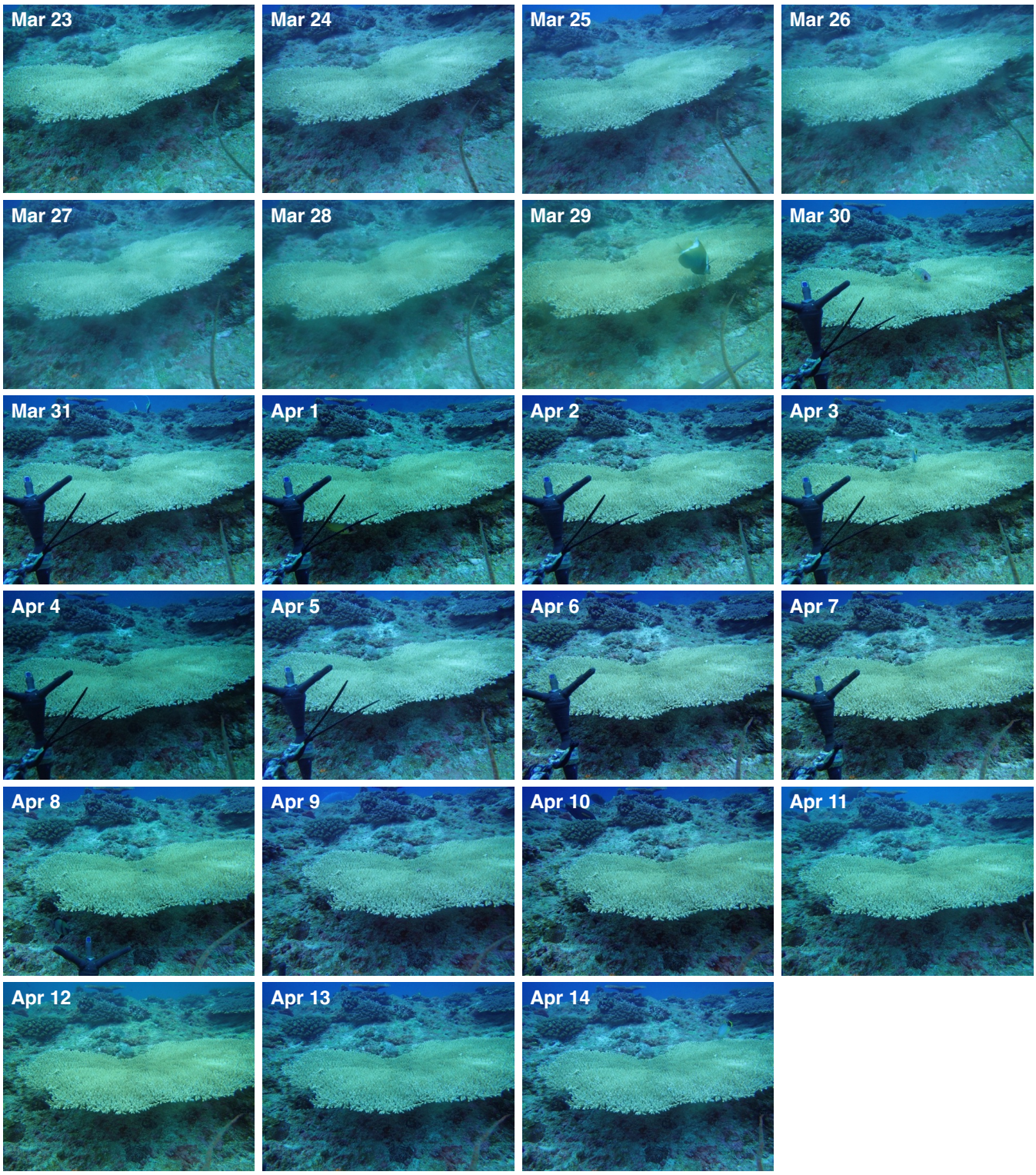
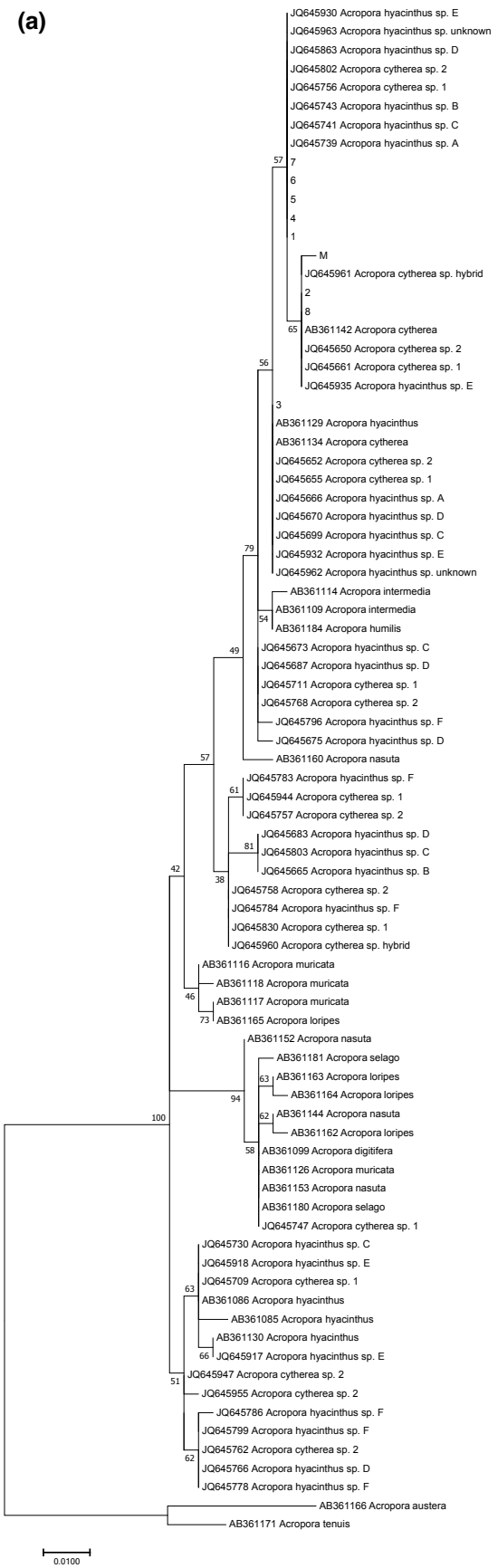


Fig. S1. Pictures of the main colony were automatically captured every day from 18 October 2015 to 14 April 2016 with a digital camera protected by a waterproof housing. We could not take pictures of the main colony on some days (dates in red font). We could not obtain any pictures at all on 25 and 26 January and from 28 January to 13 February because of errors


(a)
JQ645930 Acropora hyacinthus sp. E
JQ645963 Acropora hyacinthus sp. unknown
JQ645863 Acropora hyacinthus sp. D
JQ645802 Acropora cytherea sp. 2
JQ645756 Acropora cytherea sp. 1
JQ645743 Acropora hyacinthus sp. B
JQ645741 Acropora hyacinthus sp. C
JQ645739 Acropora hyacinthus sp. A
57
7
6
5
4
1
M
JQ645961 Acropora cytherea sp. hybrid
2
8
65
AB361142 Acropora cytherea
JQ645650 Acropora cytherea sp. 2
JQ645661 Acropora cytherea sp. 1
JQ645935 Acropora hyacinthus sp. E
56
3
AB361129 Acropora hyacinthus
AB361134 Acropora cytherea
JQ645652 Acropora cytherea sp. 2
JQ645655 Acropora cytherea sp. 1
JQ645666 Acropora hyacinthus sp. A
JQ645670 Acropora hyacinthus sp. D
JQ645699 Acropora hyacinthus sp. C
79
JQ645932 Acropora hyacinthus sp. E
JQ645962 Acropora hyacinthus sp. unknown
AB361114 Acropora intermedia
AB361109 Acropora intermedia
54
AB361184 Acropora humilis
49
JQ645673 Acropora hyacinthus sp. C
JQ645687 Acropora hyacinthus sp. D
JQ645711 Acropora cytherea sp. 1
JQ645768 Acropora cytherea sp. 2
JQ645796 Acropora hyacinthus sp. F
JQ645675 Acropora hyacinthus sp. D
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AB361160 Acropora nasuta
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JQ645757 Acropora cytherea sp. 2
JQ645683 Acropora hyacinthus sp. D
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JQ645803 Acropora hyacinthus sp. C
JQ645665 Acropora hyacinthus sp. B
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JQ645758 Acropora cytherea sp. 2
JQ645784 Acropora hyacinthus sp. F
JQ645830 Acropora cytherea sp. 1
JQ645960 Acropora cytherea sp. hybrid
AB361116 Acropora muricata
AB361118 Acropora muricata
46
AB361117 Acropora muricata
73
AB361165 Acropora loripes
AB361152 Acropora nasuta
AB361181 Acropora selago
63
AB361163 Acropora loripes
AB361164 Acropora loripes
94
100
62
AB361144 Acropora nasuta
AB361162 Acropora loripes
58
AB361099 Acropora digitifera
AB361126 Acropora muricata
AB361153 Acropora nasuta
AB361180 Acropora selago
JQ645747 Acropora cytherea sp. 1
JQ645730 Acropora hyacinthus sp. C
JQ645918 Acropora hyacinthus sp. E
JQ645709 Acropora cytherea sp. 1
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AB361086 Acropora hyacinthus
AB361085 Acropora hyacinthus
AB361130 Acropora hyacinthus
66
JQ645917 Acropora hyacinthus sp. E
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JQ645762 Acropora cytherea sp. 2
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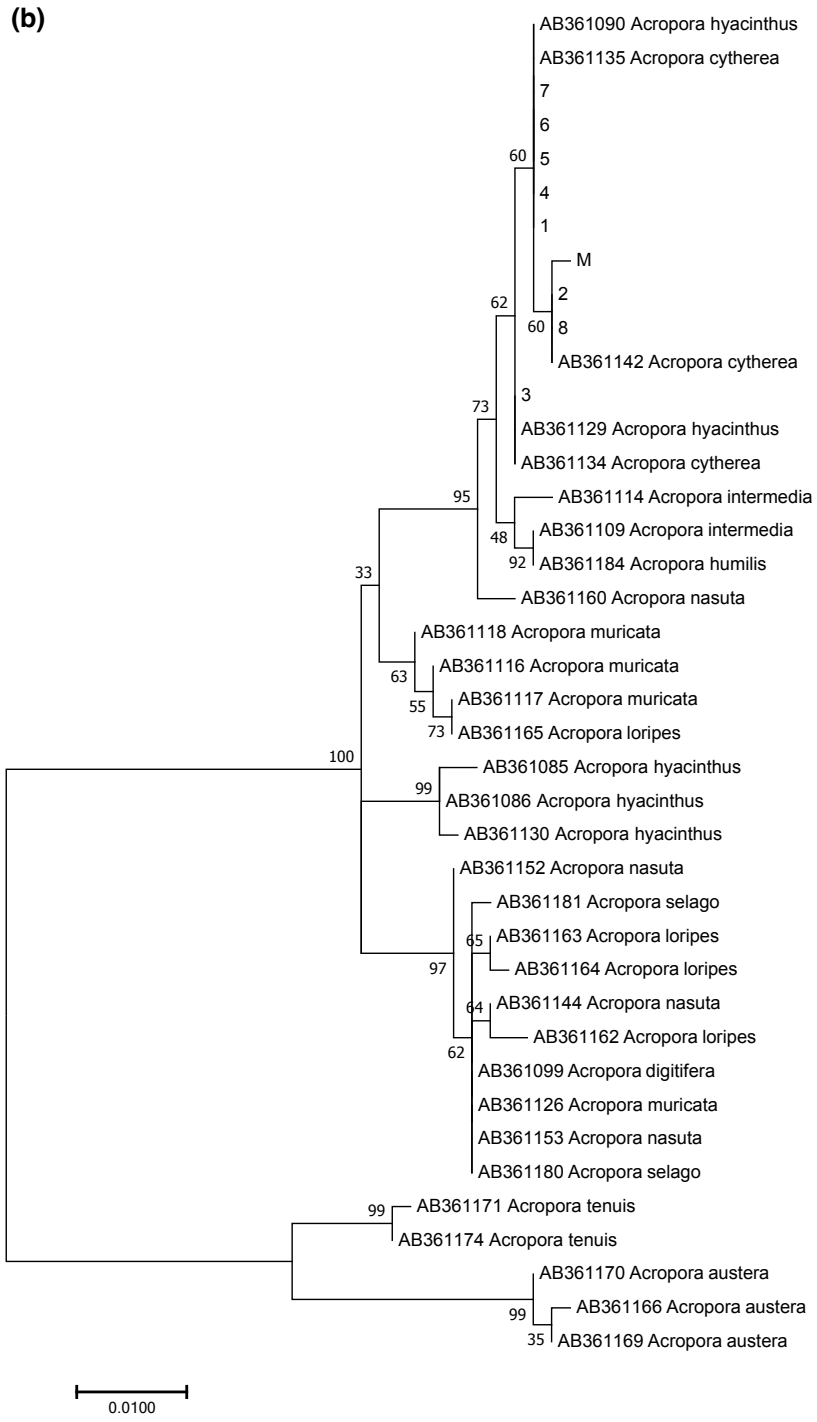

Fig. S2. Maximum-likelihood-based phylogenetic trees constructed by using (a) 331-bp-long and (b) 604-bp-long mtCR sequences of *Acropora* corals. The reference sequences were derived from studies by Ladner and Palumbi (2012) and Suzuki et al. (2016). The GenBank accession numbers of the reference sequences are listed in the phylogenetic trees. The reference sequences were selected to avoid duplication of sequences in the same region and to identify the morphological/genetic lineages

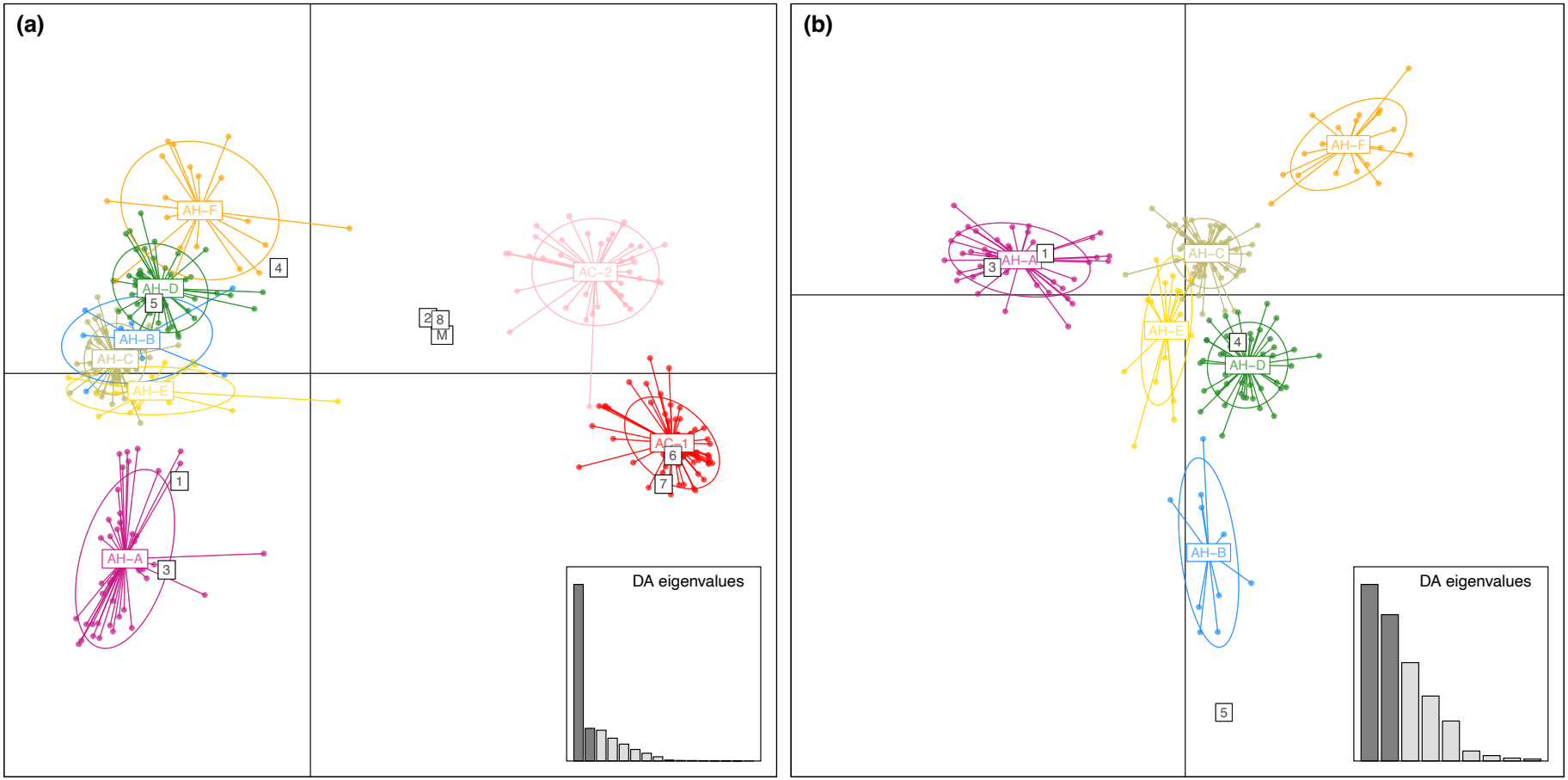

Fig. S3. Discriminant analysis of principal components (DAPC) clustering of the data obtained from the nine *Acropora* colonies and previous data from Ladner and Palumbi (2012). DAPC clusters of (a) all lineages and (b) lineages related to *Acropora hyacinthus*. The AC-1 and AC-2 genetic lineages are related to *Acropora cytherea*, and the AH-A to AH-F genetic lineages are related to *A. hyacinthus*. Each plot depicts the multilocus genotypes, including the nuclear loci and mtCR sequences, of the nine colonies. M: main colony; 1–8: nearby colonies

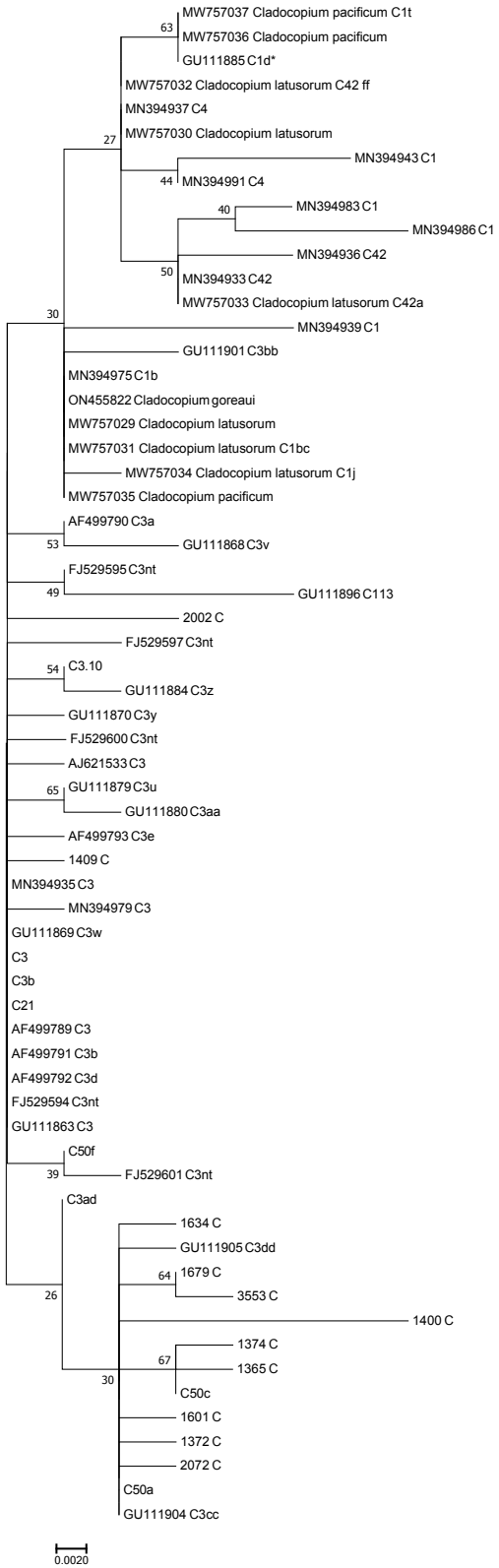

Fig. S4. Maximum-likelihood-based phylogenetic tree of the ITS2 sequences of the symbionts