SMFig_MaxLikeliTree. Tree based pm COI sequences of North American *Anaxipha*.
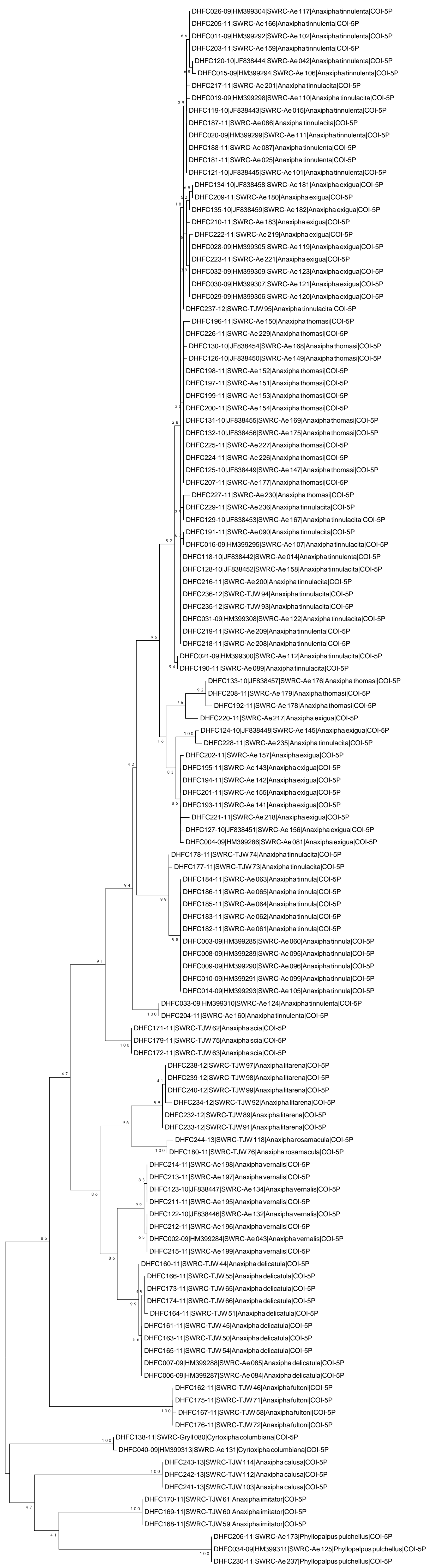
This tree is based on COI sequences for all 13 North American *Anaxipha* species plus *Cyrtoxipha columbiana* and *Phyllopalpus pulchellus*. Numbers on branches are bootstrap values. Individuals are identified as "BOLD sequence number"|"Genbank accession number (where appropriate)"|"Specimen number"|"Genus and species"|"sequenced gene".
Example: DHFC007-09|HM399288|SWRC-Ae_085|Anaxipha delicatula|COI-5P

DHFC026-09|HM399304|SWRC-Ae 117|Anaxipha tinnulenta|COI-5P
DHFC205-11|SWRC-Ae 166|Anaxipha tinnulenta|COI-5P
6 6 DHFC011-09|HM399292|SWRC-Ae 102|Anaxipha tinnulenta|COI-5P
DHFC203-11|SWRC-Ae 159|Anaxipha tinnulenta|COI-5P
DHFC120-10|JF838444|SWRC-Ae 042|Anaxipha tinnulenta|COI-5P
4 8 DHFC015-09|HM399294|SWRC-Ae 106|Anaxipha tinnulenta|COI-5P
DHFC217-11|SWRC-Ae 201|Anaxipha tinnulacita|COI-5P
3 9 DHFC019-09|HM399298|SWRC-Ae 110|Anaxipha tinnulenta|COI-5P
DHFC119-10|JF838443|SWRC-Ae 015|Anaxipha tinnulenta|COI-5P
DHFC187-11|SWRC-Ae 086|Anaxipha tinnulacita|COI-5P
DHFC020-09|HM399299|SWRC-Ae 111|Anaxipha tinnulenta|COI-5P
DHFC188-11|SWRC-Ae 087|Anaxipha tinnulenta|COI-5P
DHFC181-11|SWRC-Ae 025|Anaxipha tinnulenta|COI-5P
DHFC121-10|JF838445|SWRC-Ae 101|Anaxipha tinnulenta|COI-5P
6 8 DHFC134-10|JF838458|SWRC-Ae 181|Anaxipha exigua|COI-5P
DHFC209-11|SWRC-Ae 180|Anaxipha exigua|COI-5P
5 2 DHFC135-10|JF838459|SWRC-Ae 182|Anaxipha exigua|COI-5P
1 8 DHFC210-11|SWRC-Ae 183|Anaxipha exigua|COI-5P
DHFC222-11|SWRC-Ae 219|Anaxipha exigua|COI-5P
8 DHFC028-09|HM399305|SWRC-Ae 119|Anaxipha exigua|COI-5P
DHFC223-11|SWRC-Ae 221|Anaxipha exigua|COI-5P
3 9 DHFC032-09|HM399309|SWRC-Ae 123|Anaxipha exigua|COI-5P
DHFC030-09|HM399307|SWRC-Ae 121|Anaxipha exigua|COI-5P
DHFC029-09|HM399306|SWRC-Ae 120|Anaxipha exigua|COI-5P
DHFC237-12|SWRC-TJW 95|Anaxipha tinnulacita|COI-5P
DHFC196-11|SWRC-Ae 150|Anaxipha thomasi|COI-5P
DHFC226-11|SWRC-Ae 229|Anaxipha thomasi|COI-5P
DHFC130-10|JF838454|SWRC-Ae 168|Anaxipha thomasi|COI-5P
DHFC126-10|JF838450|SWRC-Ae 149|Anaxipha thomasi|COI-5P
DHFC198-11|SWRC-Ae 152|Anaxipha thomasi|COI-5P
DHFC197-11|SWRC-Ae 151|Anaxipha thomasi|COI-5P
DHFC199-11|SWRC-Ae 153|Anaxipha thomasi|COI-5P
3 0 DHFC200-11|SWRC-Ae 154|Anaxipha thomasi|COI-5P
2 8 DHFC131-10|JF838455|SWRC-Ae 169|Anaxipha thomasi|COI-5P
DHFC132-10|JF838456|SWRC-Ae 175|Anaxipha thomasi|COI-5P
DHFC225-11|SWRC-Ae 227|Anaxipha thomasi|COI-5P
DHFC224-11|SWRC-Ae 226|Anaxipha thomasi|COI-5P
DHFC125-10|JF838449|SWRC-Ae 147|Anaxipha thomasi|COI-5P
DHFC207-11|SWRC-Ae 177|Anaxipha thomasi|COI-5P
DHFC227-11|SWRC-Ae 230|Anaxipha thomasi|COI-5P
3 9 DHFC229-11|SWRC-Ae 236|Anaxipha tinnulacita|COI-5P
DHFC129-10|JF838453|SWRC-Ae 167|Anaxipha tinnulacita|COI-5P
6 DHFC191-11|SWRC-Ae 090|Anaxipha tinnulacita|COI-5P
9 2 DHFC016-09|HM399295|SWRC-Ae 107|Anaxipha tinnulacita|COI-5P
DHFC118-10|JF838442|SWRC-Ae 014|Anaxipha tinnulacita|COI-5P
DHFC128-10|JF838452|SWRC-Ae 158|Anaxipha tinnulacita|COI-5P
DHFC216-11|SWRC-Ae 200|Anaxipha tinnulacita|COI-5P
DHFC236-12|SWRC-TJW 94|Anaxipha tinnulacita|COI-5P
DHFC235-12|SWRC-TJW 93|Anaxipha tinnulacita|COI-5P
DHFC031-09|HM399308|SWRC-Ae 122|Anaxipha tinnulacita|COI-5P
DHFC219-11|SWRC-Ae 209|Anaxipha tinnulenta|COI-5P
9 6 DHFC218-11|SWRC-Ae 208|Anaxipha tinnulenta|COI-5P
DHFC021-09|HM399300|SWRC-Ae 112|Anaxipha tinnulacita|COI-5P
9 4 DHFC190-11|SWRC-Ae 089|Anaxipha tinnulacita|COI-5P
DHFC133-10|JF838457|SWRC-Ae 176|Anaxipha thomasi|COI-5P
9 2 DHFC208-11|SWRC-Ae 179|Anaxipha thomasi|COI-5P
7 6 DHFC192-11|SWRC-Ae 178|Anaxipha thomasi|COI-5P
DHFC220-11|SWRC-Ae 217|Anaxipha exigua|COI-5P
1 6 DHFC124-10|JF838448|SWRC-Ae 145|Anaxipha exigua|COI-5P
1 0 0 DHFC228-11|SWRC-Ae 235|Anaxipha tinnulacita|COI-5P
DHFC202-11|SWRC-Ae 157|Anaxipha exigua|COI-5P
8 3 DHFC195-11|SWRC-Ae 143|Anaxipha exigua|COI-5P
DHFC194-11|SWRC-Ae 142|Anaxipha exigua|COI-5P
DHFC201-11|SWRC-Ae 155|Anaxipha exigua|COI-5P
8 6 DHFC193-11|SWRC-Ae 141|Anaxipha exigua|COI-5P
DHFC221-11|SWRC-Ae 218|Anaxipha exigua|COI-5P
DHFC127-10|JF838451|SWRC-Ae 156|Anaxipha exigua|COI-5P
DHFC004-09|HM399286|SWRC-Ae 081|Anaxipha exigua|COI-5P
4 2 DHFC178-11|SWRC-TJW 74|Anaxipha tinnulacita|COI-5P
DHFC177-11|SWRC-TJW 73|Anaxipha tinnulacita|COI-5P
9 4 DHFC184-11|SWRC-Ae 063|Anaxipha tinnula|COI-5P
9 9 DHFC186-11|SWRC-Ae 065|Anaxipha tinnula|COI-5P
DHFC185-11|SWRC-Ae 064|Anaxipha tinnula|COI-5P
DHFC183-11|SWRC-Ae 062|Anaxipha tinnula|COI-5P
DHFC182-11|SWRC-Ae 061|Anaxipha tinnula|COI-5P
9 8 DHFC003-09|HM399285|SWRC-Ae 060|Anaxipha tinnula|COI-5P
DHFC008-09|HM399289|SWRC-Ae 095|Anaxipha tinnula|COI-5P
DHFC009-09|HM399290|SWRC-Ae 096|Anaxipha tinnula|COI-5P
DHFC010-09|HM399291|SWRC-Ae 099|Anaxipha tinnula|COI-5P
DHFC014-09|HM399293|SWRC-Ae 105|Anaxipha tinnula|COI-5P
9 1 DHFC033-09|HM399310|SWRC-Ae 124|Anaxipha tinnulenta|COI-5P
1 0 0 DHFC204-11|SWRC-Ae 160|Anaxipha tinnulenta|COI-5P
DHFC171-11|SWRC-TJW 62|Anaxipha scia|COI-5P
1 0 0 DHFC179-11|SWRC-TJW 75|Anaxipha scia|COI-5P
DHFC172-11|SWRC-TJW 63|Anaxipha scia|COI-5P
4 7 DHFC238-12|SWRC-TJW 97|Anaxipha litarena|COI-5P
4 1 DHFC239-12|SWRC-TJW 98|Anaxipha litarena|COI-5P
DHFC240-12|SWRC-TJW 99|Anaxipha litarena|COI-5P
9 9 DHFC234-12|SWRC-TJW 92|Anaxipha litarena|COI-5P
9 6 DHFC232-12|SWRC-TJW 89|Anaxipha litarena|COI-5P
DHFC233-12|SWRC-TJW 91|Anaxipha litarena|COI-5P
DHFC244-13|SWRC-TJW 118|Anaxipha rosamacula|COI-5P
1 0 0 DHFC180-11|SWRC-TJW 76|Anaxipha rosamacula|COI-5P
DHFC214-11|SWRC-Ae 198|Anaxipha vernalis|COI-5P
8 3 DHFC213-11|SWRC-Ae 197|Anaxipha vernalis|COI-5P
DHFC123-10|JF838447|SWRC-Ae 134|Anaxipha vernalis|COI-5P
9 9 DHFC211-11|SWRC-Ae 195|Anaxipha vernalis|COI-5P
DHFC122-10|JF838446|SWRC-Ae 132|Anaxipha vernalis|COI-5P
DHFC212-11|SWRC-Ae 196|Anaxipha vernalis|COI-5P
8 6 6 5 DHFC002-09|HM399284|SWRC-Ae 043|Anaxipha vernalis|COI-5P
DHFC215-11|SWRC-Ae 199|Anaxipha vernalis|COI-5P
8 6 DHFC160-11|SWRC-TJW 44|Anaxipha delicatula|COI-5P
DHFC166-11|SWRC-TJW 55|Anaxipha delicatula|COI-5P
4 9 DHFC173-11|SWRC-TJW 65|Anaxipha delicatula|COI-5P
9 9 DHFC174-11|SWRC-TJW 66|Anaxipha delicatula|COI-5P
DHFC164-11|SWRC-TJW 51|Anaxipha delicatula|COI-5P
DHFC161-11|SWRC-TJW 45|Anaxipha delicatula|COI-5P
5 6 DHFC163-11|SWRC-TJW 50|Anaxipha delicatula|COI-5P
DHFC165-11|SWRC-TJW 54|Anaxipha delicatula|COI-5P
DHFC007-09|HM399288|SWRC-Ae 085|Anaxipha delicatula|COI-5P
DHFC006-09|HM399287|SWRC-Ae 084|Anaxipha delicatula|COI-5P
DHFC162-11|SWRC-TJW 46|Anaxipha fultoni|COI-5P
DHFC175-11|SWRC-TJW 71|Anaxipha fultoni|COI-5P
1 0 0 DHFC167-11|SWRC-TJW 58|Anaxipha fultoni|COI-5P
DHFC176-11|SWRC-TJW 72|Anaxipha fultoni|COI-5P
1 0 0 DHFC138-11|SWRC-Gryll 080|Cyrtoxipha columbiana|COI-5P
DHFC040-09|HM399313|SWRC-Ae 131|Cyrtoxipha columbiana|COI-5P
DHFC243-13|SWRC-TJW 114|Anaxipha calusa|COI-5P
1 0 0 DHFC242-13|SWRC-TJW 112|Anaxipha calusa|COI-5P
DHFC241-13|SWRC-TJW 103|Anaxipha calusa|COI-5P
4 7 DHFC170-11|SWRC-TJW 61|Anaxipha imitator|COI-5P
1 0 0 DHFC169-11|SWRC-TJW 60|Anaxipha imitator|COI-5P
DHFC168-11|SWRC-TJW 59|Anaxipha imitator|COI-5P
4 1 DHFC206-11|SWRC-Ae 173|Phyllopalpus pulchellus|COI-5P
1 0 0 DHFC034-09|HM399311|SWRC-Ae 125|Phyllopalpus pulchellus|COI-5P
DHFC230-11|SWRC-Ae 237|Phyllopalpus pulchellus|COI-5P

0.02