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#### BRIEF COMMUNICATION

## UNUSUAL PATTERNS OF HYBRIDIZATION INVOLVING A NARROW ENDEMIC *Rhododendron* species (Ericaceae) IN YUNNAN, CHINA<sup>1</sup>

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- *Premise of the study*: One potential threat to rare species is genetic swamping caused by hybridization, but few studies have quantified this threat. *Rhododendron cyanocarpum* is a narrow endemic species that occurs sympatrically with potentially interfertile congeners throughout its range within Yunnan, China. We searched the entire distribution of *R. cyanocarpum* for hybrids and examined the patterns of hybridization to assess potential threat from hybridization.
- *Methods*: In a comprehensive field survey, we detected only one instance of hybridization involving *R. cyanocarpum*, with *R. delavayi*, at Huadianba near Dali. Material of both species and putative hybrids was examined using morphology, chloroplast DNA, nuclear ribosomal DNA, and Bayesian analysis of AFLP profiles.
- *Key results*: Of 10 putative hybrids, two were F<sub>1</sub>'s and at least seven were F<sub>2</sub>'s. Four backcrosses to *R. delavayi* were detected among material with *R. delavayi*-like morphology within the hybrid zone. Backcrosses to *R. cyanocarpum* were not detected. Therefore F<sub>2</sub>'s outnumbered all other classes within the hybrid zone, a situation not previously confirmed for plants and extremely rare generally. Hybridization was asymmetrical, with *R. delavayi* as the maternal parent in all but one of the hybrids detected.
- *Conclusions*: Although natural hybridization is common in *Rhododendron*, it is rare in *R. cyanocarpum* and is apparently not accompanied by backcrossing toward *R. cyanocarpum*. Hence, there is no immediate risk of genetic swamping, unless habitat disturbance increases and changes the patterns of hybridization. Our study is the first to report a plant hybrid zone dominated by F<sub>2</sub> hybrids. This pattern might contribute to species barrier maintenance.

Key words: Ericaceae; habitat disturbance; hybrid zone; narrow endemic species; *Rhododendron cyanocarpum; Rhododen-dron delavayi.* 

Hybridization may have several evolutionary consequences including the origin and transfer of genetic adaptations, the origin of new ecotypes or species, and the reinforcement or breakdown of reproductive barriers (Rieseberg and Gerber, 1995; Arnold, 1997; Rieseberg, 1997; Rieseberg and Carney, 1998; Soltis and Soltis, 2009). However, for rare species, it can also bring about extinction through genetic swamping (Levin et al., 1996; Rhymer and Simberloff, 1996; Vilà et al., 2000; Wolf et al., 2001). Therefore, for rare species that occur sympatrically with interfertile congeners, barriers to hybridization and interspecific gene flow may be vital to their persistence. Furthermore, because anthropogenic disturbance can promote hybridization (Anderson, 1948; Levin et al., 1996; Rieseberg and Carney, 1998), the threat from hybridization may be increasing

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for some rare species, but very few studies have sought to quantify or evaluate this threat.

The genus Rhododendron L. contains about 1025 species, including many narrow endemics that are sympatric with interfertile congeners throughout their ranges. Within Rhododendron, subgenus Hymenanthes appears to have undergone rapid radiation within the Himalaya region (Milne, 2004), with nearly 200 species endemic to China and adjacent regions, many of them with extremely limited ranges (Chamberlain, 1982; Fang and Min, 1995; Chamberlain et al., 1996; Wu et al., 2005). All Hymenanthes species are diploids (2n = 26), and hybridization even between distantly related species is common (Chamberlain, 1982; Milne et al., 1999, 2003; Zhang et al., 2007; Zha et al., 2008, 2010). Even remote habitats in China have mostly been subject to some level of habitat disturbance, but although hybrids involving narrow endemic species have occasionally been reported (Chamberlain, 1982), there has not yet been a systematic examination of how commonly any such species forms natural hybrids or what follows when hybridization occurs. Furthermore, hybrid zones within Rhododendron sometimes contain only  $F_1$ 's, removing any possibility of introgression (Milne et al., 2003; Zha et al., 2010), and progression of hybridization beyond the F<sub>1</sub> stage can also be promoted by disturbance

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(Kyhos et al., 1981; Milne et al., 2003). So to determine the likely consequences of hybridization, the class structure of any hybrid population detected must be determined.

*Rhododendron cyanocarpum* (Franch.) W.W.Smith (subsection *Thomsonii* Sleumer) is a narrow endemic, confined to mountain slopes above 3000 m a.s.l. in the Cangshan mountains around Dali, Yunnan Province (Chamberlain, 1982; Wu, 1986; Fig. 1). It occurs sympatrically with other *Hymenanthes* species throughout its range, notably the widespread *R. delavayi* Franch. (subsection *Arborea* Sleumer), but has not previously been known to form natural hybrids. The present study was therefore designed to first extensively survey extant *R. cyanocarpum* populations and seek evidence of hybridization. Should hybrids be detected, we then aimed to examine the hybrid zone to determine population structure and direction of crossing and any threat of genetic swamping to *R. cyanocarpum*.

#### MATERIALS AND METHODS

Location and identification of hybrids involving Rhododendron cyanocarpum—Between 2007 and 2008, we examined all known populations of *R. cy*anocarpum, covering both the east and west slopes of the Cangshan mountains, i.e., Ganchaiqing, (25°52'N, 99°58E), Huadianba (25°52', 99°59'E), Guogaishan, (25°51', 100°02'E), Xiaohuadian, (25°51, 100°02'E), Yangbi, (25°42'N, 100°05'E) and Dianshitai, (25°40', 100°06'E). At each site, the species forms a single, often broad population.

Hybrids were found only at a single locality at Huadianba, 3200 m a.s.l. At this locality were two other members of subgenus *Hymenanthes*, i.e., *R. delavayi* and *R. alutaceum* Balf. f. et W.W.Smith. Based on morphology (Table 1), the hybrids appeared to be intermediate between *R. cyanocarpum* and *R. delavayi*, whose flowering periods (April to May) overlapped. By contrast, *R. alutaceum* differs from *R. cyanocarpum*, *R. delavayi*, and the putative hybrids at this site in its white to pale pink corolla and much later flowering time (June to July); it was therefore eliminated as a putative parent. *Rhododendron delavayi* is a very widespread species, which contrasts sharply with the restricted range of *R. cyanocarpum* (Fig. 1). Based on examination of the putative parent species, *R. cyanocarpum* and *R. delavayi*, in the field, nine morphological characters were identified that consistently distinguished them from the putative hybrids (Table 1). Using these characters, only 10 putative hybrids were

identified in this hybrid zone, despite careful searching and inspection of every *Hymenanthes* plant detected.

**Collection of plant material**—A 40 × 40 m area was marked out in May 2009, and all healthy *Rhododendron* accessions from within this area were mapped and collected (Fig. 2). These comprised 10 putative hybrids, 10 *R. cy-anocarpum*-like accessions and 21 *R. delavayi*-like accessions. In addition, a further 17 *R. cyanocarpum*, and 10 *R. delavayi* accessions were collected from the same site but outside this marked area, to provide indicators of morphology and molecular profiles of the pure parental species. From all collected accessions, leaves were desiccated using silica gel and self-sealing polythene bags. Voucher specimens for all putative hybrids and some of the parental accessions were deposited in the herbarium of the Kunming Institute of Botany, Chinese Academy of Sciences (KUN) (Appendix 1).

DNA extraction, PCR amplification, and sequencing-Genomic DNA was extracted from all collected leaves using a modified CTAB protocol (Doyle and Doyle, 1987). The nrDNA ITS region from 68 accessions was amplified using primers ITS4 and ITS5 (White et al., 1990). The chloroplast trnC-trnF and trnH-psbA spacer of 37 accessions, comprising 10 putative hybrids and 27 pure parental species, were amplified and sequenced (Taberlet et al., 1991; Kress et al., 2005) to determine the direction of hybridization,. The reaction mix contained 0.625 U AmpliTaq DNA polymerase, 1× PCR buffer, 1.5 mmol/L MgCl<sub>2</sub>, 0.2 mmol/L dNTP, 0.3 umol/L primer, and 20-60 ng genomic DNA. PCR reactions were performed in a GeneAmp 9600 thermal cycler (Perkin Elmer, Norfolk, Connecticut, USA). The PCR conditions were as follows: initial denaturation at 94°C for 4 min; followed by 30 cycles of 1 min at 94°C for template denaturation, 1 min at 50°C for primer annealing, 1.5 min at 72°C for extension; and finally an extension step of 10 min at 72°C. The PCR products were purified using a Sangon Purification kit according to the manufacturer's protocol. DNA sequences were obtained using an ABI 3700 automated sequencer (Perkin Elmer).

Purified PCR products of ITS were cloned into Promega's pGEM-T System I vector according to the manufacturer's protocol. Thirty-one clones of ITS sequence from 10 putative hybrids were obtained, and plasmids were prepared using Sangon's protocols. Contiguous DNA sequences were edited using the program SeqMan (DNASTAR package, Madison, Wisconsin, USA) and sequences aligned using Clustal\_X (Thompson et al., 1997). Primers ITS4 and ITS5 were used for accessions to double-check nucleotide site polymorphisms and the accuracy of the sequence.

AFLP marker generation—We used AFLP markers to examine the 10 putative hybrids, plus five accessions each of *R. cyanocarpum* and



Fig. 1. Distributions of R. delavayi and R. cyanocarpum in and around southwest China.

TABLE 1.	Morphological	characters of R.	delavayi, R.cyanocarpu	<i>n</i> and the putative hybrids
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Morphological character	R. delavayi	R. cyanocarpum	Putative hybrid
Leaf shape	long-lanceolate	suborbicular	oblong-elliptical
Leaf length/width ratio	2.61-3.56	1.08-1.53	1.64-2.23
Ventral leaf surface indumentum	dense	glabrous	thin
Calyx length (mm)	1.1–1.6	4.0-7.1	4.2-6.9
Calyx persistence in mature capsule	No	Yes	Yes
Corolla color	deep red	pink	red
Flowers per inflorescence	17-21	5–8	7–12
Fruit indumentum	dense	sparse	sparse
Carpel number	10	5-6	Ĝ–9

*R. delavayi.* We were unable to examine a larger set of accessions because resources were limited.

The AFLP procedure was carried out according to the Beckman Coulter protocol with only minor modifications as described by Reisch (2007). Double digestion of genomic DNA was performed for 2 h at 37°C in a 20-µL mix using 2 units (U) of MseI and 10U of EcoRI. Following this, adapters were ligated to DNA in a 21-µL volume for 2 h at 37°C using 2 U of T4 DNA Ligase (Shanghai Sangon Biological Engineering Technology, Shanghai, China). Preselective

polymerase chain reactions were run in a reaction volume of 25  $\mu$ L. PCR parameters were chosen as follows: 2 min at 94°C; 25 cycles of denaturing at 94°C for 20 s, annealing at 56°C for 30 s, and extension at 72°C for 2 min; followed by 2 min at 72°C and ending with 30 min at 60°C. Diluted 20× preselective products underwent selective PCR with the following three primer combinations: E-AAC/M-CTG, E-ACT/M-CAG, E-AAC/M-CAA. Selective amplifications were run in a 25- $\mu$ L volume, and PCR reactions were performed with the following touchdown profile: 2 min at 94°C; 10 cycles of denaturing at



Fig. 2. Map of the hybrid zone at Huadianba between *R. delavayi* and *R. cyanocarpum*, showing positions of hybrid individuals and those of the parent species and the putative hybrids.

94°C for 20 s, annealing for 30 s at 66°C and then reduced by 1°C for the next 10 cycles, elongation at 72°C for 2 min, followed by 25 cycles for denaturing at 94°C for 20 s, annealing at 56°C for 30 s, and 2 min elongation at 72°C; ending with a final extension for 30 min at 60°C. Finally, the PCR products were added to a mixture of Sample Loading Solution (Beckman Coulter, Fullerton, California, USA) and CEQ Size Standard 400 (Beckman Coulter). The fluorescence-labeled selective amplification products were separated by capillary gel electrophoresis on an automated sequencer (CEQ 8000, Beckman Coulter).

Raw data were collected and analyzed with the CEQ Size Standard 400 using the CEQ 8000 software (Beckman Coulter). Individuals were scored for the presence or absence of each fragment in binary mode (1/0) in crv-files. Bins were built using the AutoBin option with a peak height of 800 and a bin width of 2. Fragments were then assigned to bins with a selective height and checked manually. When ambiguous electropherograms were detected, the AFLP procedures were repeated to test for reproducibility. In the AFLP data matrix, the presence of a band was scored as 1, whereas the absence of the band was coded as 0. From this was produced a binomial (0/1) data matrix, representing the scores for AFLP markers across all examined accessions.

**Bayesian analysis of AFLP data**—Many recent papers (e.g., Hänfling et al., 2005; Llopart et al., 2005; Gow et al., 2006; Mercure and Bruneau, 2008; Milne and Abbott, 2008; Smulders et al., 2008; Zha et al., 2008, 2010) have used the program NewHybrids version 1.1, which employs a Bayesian analysis to identify hybrids within natural hybrid zones (Anderson and Thompson, 2002) and to determine their classes. This method can be used with dominant data such as AFLP markers and is capable of identifying hybrids even when the markers are not completely species-specific. Using this program requires certain assumptions about the markers used: that they are unlinked, not subject to selection, and were at linkage equilibrium in the parent species before hybridization.

The default settings of this program assign posterior probabilities for six possible classes (parents,  $F_1$ ,  $F_2$ , backcross 1 each way), assuming that only two generations of crossing have occurred, which can rarely be verified, but this setting is nonetheless commonly used. This problematic assumption is avoided by using the modified settings of Milne and Abbott (2008), which allow four generations of crossing and group hybrids into six categories (parents,  $F_1$ -like,  $F_2$ -like, backcrosses each way). Because it allows for more possibilities, the latter is far more conservative in class assignment. For the present paper, the number of generations is uncertain, so we analyzed the AFLP data using both settings. In each case, posterior probabilities were evaluated after 100000 iterations, without using any prior information of individual or allele frequency.

To provide an indication of the proportion of each parent's germplasm in each hybrid, the same data matrix was also analyzed using the program Structure version 2.3.1 (Hubisz et al., 2009), following the methods of Falush et al. (2007). We adopted the admixture model with correlated allele frequencies (Lepais et al., 2009; Salvini et al., 2009; Zalapa et al., 2009). No prior knowledge of the species was included in the analyzed data set. To determine the optimal number of groups (K), we ran Structure with K varying from 1 to 10, with five runs for each K value. Previous studies have found that, in many cases, the posterior probability for a given K increases slightly, even after the real K is reached (Dan et al., 2009). Therefore, we used Evanno et al.'s (2005) ad hoc statistic,  $\Delta K$ , to determine the true value of K. Our parameters were 10000 burn-in periods and 10000 MCMC repetitions after burn-in. For the most likely number of clusters (K = 2), we used the ANCESTDIST command in Structure to generate 90% credible intervals for the admixture coefficients for each accession. The analysis was independently run 10 times, and the average values across all runs were taken for each of the best estimate, lower limit, and upper limit for admixture coefficients for each accession.

#### RESULTS

**Morphological characters**—Of the nine morphological characters by which *R. cyanocarpum* and *R. delavayi* may be distinguished, the 10 putative hybrids were intermediate between these species for six (Table 1), but for the three other characters they matched *R. cyanocarpum*, i.e., mature capsule indumentum, calyx persistence, and calyx length (Table 1). Therefore, morphological evidence strongly supports hybrid status for these 10 accessions.

*Chloroplast DNA* trnC-trnF and trnH-psbA sequences— Among 10 accessions of *R. delavayi* and of 17 *R. cyanocarpum*, eight and nine variable sites were found in the *trnC-trnF* and *trnH-psbA* chloroplast regions, respectively. These sites all distinguished the haplotype of *R. delavayi* from that of *R. cyanocarpum* (Table 2). No variation was detected between accessions within either species. Among the 10 putative hybrids, the sequences of nine hybrids were identical to that of *R. delavayi* (GenBank accessions HM636523 and HM636525); however, a single accession (P6) had sequences identical to *R. cyanocarpum* (GenBank accessions HM636522 and HM636524; Table 3). Therefore, hybridization between these species is bidirectional but strongly asymmetrical.

Nuclear ribosomal DNA ITS sequences and clones of the hybrids-Within the nrDNA ITS region, seven sites were polymorphic. All accessions had either the R. cyanocarpum ITS type, or the R. delavayi ITS type, or were additive at all variable sites (GenBank accessions HM636518 and HM636521; Table 4). The *R. cyanocarpum* ITS type was present in all accessions of this species examined, both within and outside the hybrid zone. The R. delavayi ITS type was present in all accessions of this species outside the hybrid zone and in 15 accessions from within the hybrid zone. Of the remaining six R. delavayi accessions within the hybrid zone, two could not be sequenced but the other four were additive at all variable ITS sites. Similarly, all 10 putative hybrids were additive at all variable ITS sites. Based on this, there is evidence of backcrossing and putative introgression toward R. delavayi within but not outside the hybrid zone, but no such evidence for R. cyanocarpum.

Using multiple clones per individual, we found that six of the 10 putative hybrids contained the ITS types of both species. Of the other four, P6 and P9 had only a single clone, so only one ITS sequence type could be recovered (in both cases, *R. cyanocarpum*, Table 3), whereas for P3, both of the two clones created had the *R. delavayi* ITS type. However, the detection of seven *R. delavayi*-like clones from accession P8 (a putative  $F_1$ , see below) might indicate that the cloning process was biased against incorporating *R. cyanocarpum* DNA for this one individual. No other ITS types except those of *R. delavayi* or *R. cyanocarpum* were detected from cloned hybrid ITS.

TABLE 2. Chloroplast haplotypes present in material of R. delavayi, R. cyanocarpum, and putative hybrids, and the codon positions at which they differ.

		Sequence region and codon position												
			trnC-	F						trnH-psb	ρA			
Haplotype <sup>a</sup>	289	308	310-311	313-315	827	78	90	103	109	126	132	162	167	243
D	Т	Т	TT	TTT	Т	А	С	С	С	А	А	Т	Т	С
С	G	А	AA	AAA	С	Т	А	А	А	Т	С	А	С	G

<sup>a</sup> All accessions of *R. delavayi* examined had haplotype D; all accessions of *R. cyanocarpum* had haplotype C.

		Number of			ITS sequence	Number of clones with ITS type of species	
Morphological	Accession code	accessions a	AFLP results	cpDNA haplotype	type	R. cyanocarpum	R. delavayi
Outside hybrid zone							
R. cyanocarpum	RC1,4,8,9,20,23,26,29,31,32,33,34	12	_	С	С	-	_
R. cyanocarpum	RC3,13,22,27,30	5	<i>R. c.</i>	С	С	-	_
R. delavayi	RD1,2,3,6,7	5	<i>R. d.</i>	D	D	-	
R. delavayi	RD4,5,8,9,10	5	_	D	D	-	_
Within hybrid zone							
Putative hybrid	P1	1	$F_2$	D	C+D	1	1
Putative hybrid	P2	1	$F_2/BcD$	D	C+D	3	2
Putative hybrid	P3	1	F <sub>2</sub>	D	C+D	0	2
Putative hybrid	P4	1	$F_2$	D	C+D	1	2
Putative hybrid	P5	1	$\overline{F_2}$	D	C+D	2	1
Putative hybrid	P6	1	$F_2$	С	C+D	1	0
Putative hybrid	P7	1	$F_1$	D	C+D	4	1
Putative hybrid	P8	1	$F_1$	D	C+D	0	7
Putative hybrid	P9	1	$F_2$	D	C+D	1	0
Putative hybrid	P10	1	$F_2$	D	C+D	1	1
R. cyanocarpum	RC35-44	10	-	-	С	-	-
R. delavayi	RD11,23,26,30	4	-	-	C+D	-	-
R. delavayi	RD24,25	2	_	_	_	_	_
R. delavayi	RD12-22,27-29,31	15	-	-	D	-	-

TABLE 3. Summary of molecular results for all accessions examined.

<sup>a</sup> See Table 5 for details.  $F_2/BcD$  indicates an accession identified as  $F_2$  by NewHybrids but which might have been an  $F_2$  or a backcross to *R. delavayi* according to Structure.

*AFLP analysis*—We generated 90 polymorphic AFLP markers, of which 47 were present in all accessions of one parent species and absent from all accessions of the other, and a further 15 were present in one parent species only, though not in all accessions thereof.

Analysis of AFLP data using NewHybrids confirmed the identity of the R. delavayi and R. cyanocarpum accessions examined, when either setting was used. Using the default NewHybrids settings, eight hybrids were identified as F<sub>2</sub>'s with posterior probabilities of 98% or more, whereas the other two (P7 and P8) were classified as F<sub>1</sub>'s with 96–98% probability (Table 5). When the highly conservative 45-class setting was used, the probabilities dropped, to between 63 and 91% for the putative  $F_2$ 's and 86–87% for the putative  $F_1$ s. On this setting, for putative F<sub>2</sub>'s the next most likely class was always backcross to R. delavayi, with 5-24% probability, whereas for putative  $F_1$ 's the only other class with >1% probability was  $F_2$ (Table 5). It should be noted that accessions identified as  $F_2$ 's by this method could potentially be  $F_3$ 's or another complex class containing roughly equal proportions of parental germplasm; they are henceforth referred to as F<sub>2</sub>s' for simplicity.

In the Structure analysis of AFLP data, the value of  $\Delta K$  was 80.91 for K = 2, 13.32 and 18.38 for K = 3 and K = 4, respectively, and <2.21 for all values of K higher than 4 (Appendix S1; see Supplemental Data at http://www.amjbot.org/

cgi/content/full/ajb.1000018/DC1). Therefore K = 2 best represents the data. Following 10 independent Structure runs with K = 2, individuals morphologically identified as R. delavavi were assigned to one cluster with high probability ( $q = 0.987 \pm 0.022$ ), whereas those morphologically identified as R. cyanocarpum were assigned to the other cluster with similarly high probability (q = 0.997 $\pm$  0.001). Therefore these clusters were determined to respresent R. delavayi and R. cyanocarpum, respectively. Among individuals morphologically identified as hybrids, the lowest estimated proportion of R. cyanocarpum germplasm was (0.235-)0.329 (-0.458) in accession P2, whereas the highest was in (0.494-)0.575(-0.655) accession P4. A backcross to R. delavayi would have ~25% R. cyanocarpum germplasm, and accession P2 was the only one whose credible interval overlapped this value (Table 5). A backcross to R. cyanocarpum would have ~75% R. cyanocarpum germplasm, but no accession's credible interval overapped this value, and the upper limit for no accession was higher than 0.678. The expected proportion of R. cyano*carpum* germplasm in F<sub>2</sub>'s would be (with some variation) 50%, a value that fell within the credible intervals for all hybrid accessions except P2, P7, and P8. However, accessions P7 and P8 were identified as  $F_1$ 's by Newhybrids, and if this is the case, then the proportions of R. cyanocarpum germplasm estimated by Structure for these, and possibly all, hybrid accessions might be a slight underestimate.

TABLE 4. ITS sequence types present in material of R. delavayi, R. cyanocarpum, and putative hybrids, and the codon positions at which they differ.

		Codon position						
Species	ITS type	255	266	557	560	650	663	670
R. delavayi	DD	А	G	А	С	А	G	G
R. cyanocarpum	CC	G	A	G	A	C	C	A
Putative hybrids <sup>a</sup>	C+D	R(A/G)	R(A/G)	R(A/G)	M(A/C)	M(A/C)	S(G/C)	R(A/G)

<sup>a</sup> This additive pattern was seen for all 10 putative hybrids and for four accessions with *R. delavayi*-like morphology from the hybrid zone.

TABLE 5. Assignments to genotype classes made by the programs NewHybrids and Structure based on AFLP data.

Accession	Most likely class (NewHybrids, both methods)	Probability of most likely class (NewHybrids, 6-class method)	Probability of most likely class (NewHybrids, 45-class method)	Second most likely class and its probability (45-class method) <sup>a</sup>	Proportion of <i>R.</i> <i>cyanocarpum</i> germplasm (Structure) <sup>b</sup>
RD1	R. delavavi	1	1	None	(0-) 0.056 (-0.110)
RD2	R. delavavi	1	1	None	(0-) 0.003 (-0.013)
RD3	R. delavavi	1	1	None	(0-) 0.002 (-0.012)
RD6	R. delavayi	1	1	None	(0-) 0.002 (-0.011)
RD7	R. delavayi	1	1	None	(0-) 0.002 (-0.012)
RC3	R. cyancarpum	1	1	None	(0.988-) 0.998 (-1)
RC13	R. cyancarpum	1	1	None	(0.988-) 0.998 (-1)
RC22	R. cyancarpum	1	1	None	(0.985-) 0.997 (-1)
RC27	R. cyancarpum	1	1	None	(0.979-) 0.996 (-1)
RC30	R. cyancarpum	1	1	None	(0.984-) 0.997 (-1)
P1	F <sub>2</sub>	0.99	0.88	BC-delayavi (0.11)	(0.444-) 0.526 (-0.607)
P2	$F_2$	1	0.90	BC-delayavi (0.05)	(0.235-) 0.329 (-0.458)
P3	$F_2$	0.99	0.78	BC-delayavi (0.22)	(0.492–) 0.573 (-0.654)
P4	$F_2$	1	0.77	BC-delayavi (0.23)	(0.494–) 0.575 (-0.655)
P5	$F_2$	1	0.78	BC-delayavi (0.22)	(0.485-) 0.567 (-0.647)
P6	$F_2$	1	0.63	BC-delayavi (0.24)	(0.440-) 0.546 (-0.678)
P7	$F_1$	0.98	0.87	$F_2(0.12)$	(0.309–) 0.386 (-0.464)
P8	$F_1$	0.96	0.86	$F_2(0.13)$	(0.331-) 0.410 (-0.492)
P9	$F_2$	1	0.90	BC-delayavi (0.09)	(0.410-) 0.491 (-0.573)
P10	$F_2$	1	0.91	BC-delayavi (0.08)	(0.335–) 0.416 (–0.501)

<sup>a</sup> The second most likely class is given only when the posterior probability for it is at least 5%.

<sup>b</sup> Numbers in parentheses indicate 90% confidence intervals generated using the ANCESTDIST function in Structure. All data in this column are means across 10 runs.

#### DISCUSSION

Hybrids between the narrow endemic species R. cyanocar*pum* and the much more widespread species *R. delavavi* were found at Huadianba, near Dali, Yunnan, but at no other site. There, 10 accessions were found to be hybrids by the cpDNA, ITS, and AFLP data. Remarkably, at least seven of the 10 hybrids appeared to be of the  $F_2$  class. These are the only natural hybrids involving R. cyanocarpum known to science; despite our searches, we did not find hybrids involving R. cyanocarpum at any other site within its limited range. Given the well-known weakness of species barriers within Rhododendron subgenus Hymenanthes (Chamberlain, 1982; Milne et al., 1999, 2003; Zha et al., 2008, 2010), this rarity of natural hybrids is remarkable. It contrasts with the situations involving other hybrids of R. delavayi (Zhang et al., 2007; Zha et al., 2008, 2010), and other Hymenanthes species in NE Turkey (Milne et al., 1999, 2003), in which hybrids are produced commonly and often in quantity. This rarity of R. cyanocarpum hybrids might reflect a relative lack of disturbance to its natural habitats and/or more effective prezygotic isolating mechanisms than exist in many other Hymenanthes species.

With this in mind, the single hybrid zone detected might either be a stable, long-term phenomenon or a relatively recent occurrence, initiated or at least facilitated by habitat disturbance. The most significant period of disturbance to the locality containing the hybrid zone was during 1957–1958, when many trees were felled to aid factory construction (Y. L. Yang, Huadianba Medical Factory, personal communication). From molecular data, we know that hybrids beyond the first generation are present, so if this disturbance did initiate hybridization and the minimum generation time of 12 yr for *R. ponticum* applies here (Cross, 1975), then we may be witnessing the early stages of hybrid zone formation, because no more than four generations could have been completed since 1957 and 1958. If so, more hybrids involving *R. cyanocarpum* would be expected in the future, and hybridization, not presently a threat, might become so. However, it is also possible that this hybrid zone is long-lived and stable.

**Population structure in the R. delavayi** × **R. cyanocarpum hybrid zone**—Among the 10 hybrids examined, two appeared to be  $F_1$ 's, whereas eight were most likely of the  $F_2$  class. If we assume that all hybrids are first or second generation, then these determinations become more certain (>95% posterior probability in each case), and no accession has >1% probability of being a backcross. Without this assumption, the probabilities drop to ~80–90% in most cases, with four accessions having 20–25% chance of being backcrosses to *R. delavayi*, four a 0.05–0.11 probability, and the others <1%.

The Structure analysis, using 90% credible intervals, also rejected the possibility of being backcrosses for all but one of these accessions. The exception, accession P2, had a (0.235-)0.329(-0.458) proportion of R. cyanocarpum germplasm, which appears to favor the hypothesis that it is a backcross to *R. delavayi* over its being an  $F_2$ . However, if accessions P7 and P8 are indeed F<sub>1</sub>'s then their credible intervals of 0.309–0.464 and 0.331-0.492, respectively, indicate that the proportion of R. cyanocarpum germplasm might be underestimated by Structure in some or all accessions. Based on this, the hypotheses of either an F2 or a backcross to R. delavayi for accession P2 cannot be separated based on the Structure results. However, even allowing for this underestimation, none of the hybrid accessions had a high enough proportion of R. cyanocarpum germplasm to be backcrosses to this species (Table 5). Based on these analyses together, the 10 hybrids appeared to comprise two F<sub>1</sub>'s, seven  $F_2$ 's, and one accession that was either  $F_2$  or a backcross to R. delavayi.

Backcrosses to *R. delavayi* were certainly present, however, among the individuals of *R. delavayi*-like morphology within the hybrid zone. Of 21 such individuals, four were backcrosses based on ITS data; however, there was no evidence of backcrossing toward *R. cyanocarpum.* These backcrosses all occurred close together, indicating that they might share a common maternal parent (Fig. 2). Furthermore, among 10 individuals of hybrid morphology, nine had *R. delavayi* as their maternal parent. Hence, the directions of both crossing and backcrossing are strongly biased toward *R. delavayi*. Because *R. delavayi* flowers earlier than hybrids or *R. cyanocarpum*, it would be the more likely maternal parent because *Rhododendrons* are protandrous; however, for the same reason, hybrid stigmas are more likely to receive pollen from the later flowering parent (see Milne and Abbott, 2008). Possibly, therefore, some other mechanism restricts backcross formation toward *R. cyanocarpum*, and perhaps hybridization in this species overall; one such mechanism might be selection toward reinforcement among rare species (Zhou et al., 2008).

The detection of a hybrid zone in which  $F_2$ 's outnumber both  $F_1$ 's and backcrosses combined is extremely unusual. The most common pattern for hybrids to be fertile is for most hybrid derivatives to be backcrosses (Barton and Hewitt, 1985; Cruzan and Arnold, 1993; Arnold, 1997; Rieseberg and Carney, 1998; Chung et al., 2005; Lexer et al., 2005; Van Droogenbroeck et al., 2006; Minder et al., 2007). Another pattern, in which  $F_1$ 's can be the most numerous class, despite their own fertility and the viability of other classes, is fairly common in *Rhododen-dron* (Milne et al., 2003; Milne and Abbott, 2008; Zha et al., 2010), but very rare in other genera (e.g., Kyhos et al., 1981; Kameyama et al., 2008). In certain cases, hybrid zones may contain many  $F_1$ 's and backcrosses but very few  $F_2$ 's (Milne and Abbott, 2008; Zha et al., 2008).

The pattern seen in the current study, in which  $F_2$ 's are the most abundant class, has to the our knowledge only been detected for stickleback fish (Gow et al., 2006). Among plants, one example exists in which  $F_2$ 's occur in similar numbers to backcrosses (Smulders et al., 2008), but *R. cyanocarpum* × *R. delavayi* is the only plant example that we know in which  $F_2$ 's certainly outnumber all other classes in a hybrid zone. Furthermore, both of the aforementioned studies assigned hybrid class using only the less conservative default settings of NewHybrids (Gow et al., 2006; Smulders et al., 2008) and did not expressedly test the hypothesis that the  $F_2$ 's not only occurred, but they also outnumbered all other classes, meaning the methods in the present study are more stringent.

The simplest explanation for the unusual precedence of  $F_2$ 's is that much seed produced by  $F_1$ 's is set by geitonogamy, which is common in *Rhododendron* (Stout, 2007) including *R*. cyanocarpum (Ma et al., personal observation). This would only lead to  $F_2$ 's being recruited in any quantity if some  $F_2$ 's had high fitness, because selective pressures among Rhododen*dron* seedlings is likely to be extreme (Milne et al., 2003), and numerous seeds of the parents and possibly other hybrid classes would also be falling within the hybrid zone. Therefore, this putatively high fitness of the F<sub>2</sub>'s might prove to be a special case of the mosaic (Harrison and Rand, 1989) and/or bounded hybrid superiority (Moore, 1977; Arnold, 1997) models of hybrid zone dynamics, in both of which hybrids can have superior fitness in certain conditions. More research is required to determine whether this highly unusual hybrid zone structure is a contributing factor to the absence of backcrossing toward R. cyanocarpum and hence to maintaining the genetic purity of this narrow endemic species.

When a naturally rare species is sympatric and interfertile with a more common one, barriers to crossing in the rare species tend to be stronger, possibly from stronger selection for this in the rarer member of a hybridizing pair of species (Zhou et al., 2008). Our study fits this pattern. Conversely, most known instances where a species faces a threat from genetic swamping involve human interference of some kind (Levin et al., 1996; Rhymer and Simberloff, 1996; Vilà et al., 2000). Even if the detected *R. cyanocarpum* hybrid zone results from human ldisturbance, it currently poses no threat of genetic assimilation. Such a threat is only likely to arise if habitat disturbance increases substantially, for example, as a result of climate change.

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APPENDIX 1. Voucher information for accessions used in this study. The voucher specimens were deposited in the herbarium of the Kunming Institute of Botany, Chinese Academy of Sciences (KUN).

PD1 <i>R. Advorsyi</i> MYP-2009-51-21.     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD3 <i>R. Advorsyi</i> MYP-2009-51-23.     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD4 <i>R. Advorsyi</i> MYP-2009-51-24.     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD5 <i>R. Advorsyi</i> MYP-2009-51-25.     25'3'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD5 <i>R. Advorsyi</i> MYP-2009-51-28.     25'3'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD5 <i>R. Advorsyi</i> MYP-2009-51-28.     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD10 <i>R. Advorsyi</i> MYP-2009-51-21.01     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD11 <i>R. Advorsyi</i> MYP-2009-51-21.01     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD11 <i>R. Advorsyi</i> MYP-2009-51-21.01     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD13 <i>R. Advorsyi</i> MYP-2009-51-21.01     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima       RD14 <i>R. Advorsyi</i> MYP-2009-51-21.01     25'5'TN, 99'3'DT     Huadinsh, Dali, Yaman, Chima  <	Accession	Taxon	Voucher number	Latitude, longitude	Collection locality
RD2     R. defavori     MYP 2009-512-2     27:27. 99:97     Phanalamb, Dai, Yunan, China       RD4     R. defavori     MYP 2009-512-3     25:52. 99:97     Phanalamb, Dai, Yunan, China       RD5     R. defavori     MYP 2009-512-5     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD5     R. defavori     MYP 2009-512-5     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD6     R. defavori     MYP 2009-512-8     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD6     R. defavori     MYP 2009-512-8     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD10     R. defavori     MYP 2009-512-10     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD11     R. defavori     MYP 2009-512-10     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD11     R. defavori     MYP 2009-512-16     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD11     R. defavori     MYP 2009-512-16     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD12     R. defavori     MYP 2009-512-17     25:72. 99:97     Phanalamb, Dai, Yunan, China       RD13     R. defavori     MYP 2009-512-17	RD1	R delavavi	MYP-2009-5-12-1	25°52'N 99°59'E	Huadianba Dali Yunnan China
R93 <i>R. delawig</i> MYP 2009 5-12-3     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R05 <i>R. delawyi</i> MYP 2009 5-12-5     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R05 <i>R. delawyi</i> MYP 2009 5-12-5     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R05 <i>R. delawyi</i> MYP 2009 5-12-8     2573 N, 975 PC     Huadianb, Dii, Yunan, Chin       R06 <i>R. delawyi</i> MYP 2009 5-12-8     2573 N, 975 PC     Huadianb, Dii, Yunan, Chin       R010 <i>R. delawyi</i> MYP 2009 5-12-10     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R011 <i>R. delawyi</i> MYP 2009 5-12-11     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R011 <i>R. delawyi</i> MYP 2009 5-12-12     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R011 <i>R. delawyi</i> MYP 2009 5-12-13     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R011 <i>R. delawyi</i> MYP 2009 5-12-16     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R011 <i>R. delawyi</i> MYP 2009 5-12-17     2572 N, 975 PC     Huadianb, Dii, Yunan, Chin       R012 <i>R. delawyi</i>	RD2	R. delavayi	MYP-2009-5-12-2	25°52'N, 99°59'E'	Huadianba, Dali, Yunnan, China
Rb4 <i>R</i> , <i>delanayi</i> MYP 2009-512-4     2572 N, 979 U     Huadimb, Dii, Yunna, China       Rb5 <i>R</i> , <i>delanayi</i> MYP 2009-512-5     2572 N, 979 U     Huadimb, Dii, Yunna, China       Rb7 <i>R</i> , <i>delanayi</i> MYP 2009-512-7     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb7 <i>R</i> , <i>delanayi</i> MYP 2009-512-10     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb10 <i>R</i> , <i>delanayi</i> MYP 2009-512-11     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb11 <i>R</i> , <i>delanayi</i> MYP 2009-512-13     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb11 <i>R</i> , <i>delanayi</i> MYP 2009-512-13     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb11 <i>R</i> , <i>delanayi</i> MYP 2009-512-10     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb11 <i>R</i> , <i>delanayi</i> MYP 2009-512-10     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb11 <i>R</i> , <i>delanayi</i> MYP 2009-512-20     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb12 <i>R</i> , <i>delanayi</i> MYP 2009-512-21     2572 N, 979 SP     Huadimb, Dii, Yunna, China       Rb21     <	RD3	R. delavayi	MYP-2009-5-12-3	25°52'N, 99°59'E'	Huadianba, Dali, Yunnan, China
RD5 <i>R. delanoyi</i> MYP 2009-512-5     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD7 <i>R. delanoyi</i> MYP 2009-512-9     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD7 <i>R. delanoyi</i> MYP 2009-512-9     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD10 <i>R. delanoyi</i> MYP 2009-512-10     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD11 <i>R. delanoyi</i> MYP 2009-512-11     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD13 <i>R. delanoyi</i> MYP 2009-512-12     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD14 <i>R. delanoyi</i> MYP 2009-512-12     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD14 <i>R. delanoyi</i> MYP 2009-512-16     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD16 <i>R. delanoyi</i> MYP 2009-512-17     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD17 <i>R. delanoyi</i> MYP 2009-512-10     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD17 <i>R. delanoyi</i> MYP 2009-512-10     2572 N, 9759 E     Huadimb, Dii, Yunan, China       RD20 <i>R. delanoyi</i> <td>RD4</td> <td>R. delavayi</td> <td>MYP-2009-5-12-4</td> <td>25°52'N, 99°59'E'</td> <td>Huadianba, Dali, Yunnan, China</td>	RD4	R. delavayi	MYP-2009-5-12-4	25°52'N, 99°59'E'	Huadianba, Dali, Yunnan, China
Rb6 <i>R</i> . <i>delenvyi</i> MYP-2009-51-26     25521N, 99597E     Huadinab, Dai, Yuman, China       RD7 <i>R</i> . <i>delenvyi</i> MYP-2009-51-27     2552N, 99597E     Huadinab, Dai, Yuman, China       RD8 <i>R</i> . <i>delenvyi</i> MYP-2009-51-210     2552N, 99597E     Huadinab, Dai, Yuman, China       RD10 <i>R</i> . <i>delenvyi</i> MYP-2009-51-211     2552N, 99597E     Huadinab, Dai, Yuman, China       RD11 <i>R</i> . <i>delenvyi</i> MYP-2009-51-214     2552N, 99597E     Huadinab, Dai, Yuman, China       RD13 <i>R</i> . <i>delenvyi</i> MYP-2009-51-214     2552N, 99597E     Huadinab, Dai, Yuman, China       RD14 <i>R</i> . <i>delenvyi</i> MYP-2009-51-216     2552N, 99597E     Huadinab, Dai, Yuman, China       RD16 <i>R</i> . <i>delenvyi</i> MYP-2009-51-216     2552N, 99597E     Huadinab, Dai, Yuman, China       RD18 <i>R</i> . <i>delenvyi</i> MYP-2009-51-217     2552N, 99597E     Huadinab, Dai, Yuman, China       RD21 <i>R</i> . <i>delenvyi</i> MYP-2009-51-221     2552N, 99597E     Huadinab, Dai, Yuman, China       RD22 <i>R</i> . <i>delenvyi</i> MYP-2009-51-221     2552N, 99597E     Huadinab, Dai, Yuman, China       RD23	RD5	R. delavayi	MYP-2009-5-12-5	25°52'N, 99°59'E'	Huadianba, Dali, Yunnan, China
RD7 <i>R. delanoyi</i> MYP-2005-12-7     25°22N, 99°50°E     Huadimba Dali, Yuman, China       RD9 <i>R. delanoyi</i> MYP-2005-12-8     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD9 <i>R. delanoyi</i> MYP-2005-12-9     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD11 <i>R. delanoyi</i> MYP-2005-12-11     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD12 <i>R. delanoyi</i> MYP-2005-12-131     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD14 <i>R. delanoyi</i> MYP-2005-12-16     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD16 <i>R. delanoyi</i> MYP-2005-12-16     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD17 <i>R. delanoyi</i> MYP-2005-12-16     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD18 <i>R. delanoyi</i> MYP-2005-12-20     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD20 <i>R. delanoyi</i> MYP-2005-12-21     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD21 <i>R. delanoyi</i> MYP-2005-12-20     25°22N, 99°50°E     Huadimba, Dali, Yuman, China       RD22	RD6	R. delavayi	MYP-2009-5-12-6	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD8     R. delawoyi     MYP-2005-12-8     25°27.N. 99°59°E     Haadimb, Dai, Yunan, China       RD10     R. delawoyi     MYP-2005-12-12     25°27.N. 99°59°E     Haadimb, Dai, Yunan, China       RD11     R. delawoyi     MYP-2005-12-12     25°27.N. 99°59°E     Haadimb, Dai, Yunan, China       RD12     R. delawoyi     MYP-2005-12-12     25°27.N. 99°59°E     Haadimb, Dai, Yunan, China       RD13     R. delawoyi     MYP-2005-12-16     25°27.N. 99°59°E     Haadimb, Dai, Yunan, China       RD14     R. delawoyi     MYP-2005-12-16     25°27.N. 99°59°E     Haadimb, Dai, Yunan, China       RD17     R. delawoyi     MYP-2005-12-18     25°27.N. 99°50°E     Haadimb, Dai, Yunan, China       RD17     R. delawoyi     MYP-2005-12-18     25°27.N. 99°50°E     Haadimb, Dai, Yunan, China       RD10     R. delawoyi     MYP-2005-12-18     25°27.N. 99°50°E     Haadimb, Dai, Yunan, China       RD21     R. delawoyi     MYP-2005-12-20     25°27.N. 99°50°E     Haadimb, Dai, Yunan, China       RD21     R. delawoyi     MYP-2005-12-23     25°27.N. 99°50°E     Haadimb, Dai, Yunan, China       RD23     R. delawoyi	RD7	R. delavayi	MYP-2009-5-12-7	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RIP     R. Databay     N. M. P. 2005-1: 29     25 25. N. 99-39 E     Haddinka, Dai, Yunnan, China       RD11     R. delensyi     M.YP-2005-1: 11     25752. N. 99-39 F     Haddinab, Dai, Yunnan, China       RD12     R. delensyi     M.YP-2005-1: 12     25752. N. 99-39 F     Haddinab, Dai, Yunnan, China       RD14     R. delensyi     M.YP-2005-1: 14     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China       RD14     R. delensyi     M.YP-2005-1: 15     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China       RD16     R. delensyi     M.YP-2005-1: 16     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China       RD17     R. delensyi     M.YP-2005-1: 16     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China       RD18     R. delensyi     M.YP-2005-1: 21     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China       RD12     R. delensyi     M.YP-2005-1: 22     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China       RD21     R. delensyi     M.YP-2005-1: 23     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China       RD22     R. delensyi     M.YP-2005-1: 24     25752. N. 99-59 F     Haddinab, Dai, Yunnan, China	RD8	R. delavayi	MYP-2009-5-12-8	25°52′N, 99°59′E	Huadianba, Dali, Yunnan, China
ND11     R. Idaming     MMP-2005-12-11     25757 N. 9979 T     Hundinsh, Dali, Yuman, China       RD12     R. delawoyi     MYP-2005-12-12     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD14     R. delawoyi     MYP-2005-12-14     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD15     R. delawoyi     MYP-2005-12-16     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD16     R. delawoyi     MYP-2005-12-16     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD17     R. delawoyi     MYP-2005-12-18     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD19     R. delawoyi     MYP-2005-12-18     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD10     R. delawoyi     MYP-2005-12-21     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD20     R. delawoyi     MYP-2005-12-23     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD21     R. delawoyi     MYP-2005-12-24     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD22     R. delawoyi     MYP-2005-12-26     2572N. 9979 F     Hundinsh, Dali, Yuman, China       RD23     R. delawoyi     MY	RD9 RD10	R. delavayi P. delavayi	MYP-2009-5-12-9 MYP 2000 5-12-10	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD12     R. delraoyi     MYP-2009-51-121     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD14     R. delraoyi     MYP-2009-51-214     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD16     R. delraoyi     MYP-2009-51-214     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD16     R. delraoyi     MYP-2009-51-216     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD17     R. delraoyi     MYP-2009-51-217     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD18     R. delraoyi     MYP-2009-51-219     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD20     R. delraoyi     MYP-2009-51-22     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD21     R. delraoyi     MYP-2009-51-22     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD23     R. delraoyi     MYP-2009-51-22     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD24     R. delraoyi     MYP-2009-51-23     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD25     R. delraoyi     MYP-2009-51-24     25°52 N, 99°59°E     Headarba, Dali, Yuman, China       RD26	RD10 RD11	R. delavayi	MTF-2009-5-12-10 MVP-2009-5-12-11	25 52 N, 99 59 E 25°52'N 99°59'E	Huadianba Dali Yunnan China
RD14     R. delaxoyi     MYP-2300-5-12.14     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD15     R. delaxoyi     MYP-2300-5-12.16     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD16     R. delaxoyi     MYP-2300-5-12.16     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD17     R. delaxoyi     MYP-2300-5-12.17     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD18     R. delaxoyi     MYP-2300-5-12.10     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD120     R. delaxoyi     MYP-2300-5-12.20     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD21     R. delaxoyi     MYP-2300-5-12.21     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD22     R. delaxoyi     MYP-2300-5-12.24     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD23     R. delaxoyi     MYP-2300-5-12.24     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD24     R. delaxoyi     MYP-2300-5-12.24     25°52N, 99°97E     Haadianba, Dali, Yunnan, China       RD25     R. delaxoyi     MYP-2300-5-12.24     25°52N, 99°97E     Haadianba, Dali, Yunnan, China <t< td=""><td>RD12</td><td>R delavayi</td><td>MYP-2009-5-12-11 MYP-2009-5-12-12</td><td>25°52'N 99°59'E</td><td>Huadianba, Dali, Yunnan, China</td></t<>	RD12	R delavayi	MYP-2009-5-12-11 MYP-2009-5-12-12	25°52'N 99°59'E	Huadianba, Dali, Yunnan, China
RD14 <i>R. delexopi</i> MYP-2009-5-12-15     2572 Y. 99*97E     Haadanba. Dali, Yunnan, China       RD15 <i>R. delexopi</i> MYP-2009-512-16     2572 Y. 99*97E     Haadanba. Dali, Yunnan, China       RD17 <i>R. delexopi</i> MYP-2009-512-17     2572 Y. 99*97E     Haadanba. Dali, Yunnan, China       RD18 <i>R. delexopi</i> MYP-2009-512-17     2572 Y. 99*97E     Haadanba. Dali, Yunnan, China       RD19 <i>R. delexopi</i> MYP-2009-512-19     2572 Y. 99*97E     Haadanba. Dali, Yunnan, China       RD20 <i>R. delexopi</i> MYP-2009-512-21     2557 Y. 99*97E     Haadanba. Dali, Yunnan, China       RD21 <i>R. delexopi</i> MYP-2009-512-21     2557 Y. 99*97E     Haadanba, Dali, Yunnan, China       RD23 <i>R. delexopi</i> MYP-2009-512-23     2557 Y. 99*97E     Haadanba, Dali, Yunnan, China       RD24 <i>R. delexopi</i> MYP-2009-512-26     2572 Y. 99*97E     Haadanba, Dali, Yunnan, China       RD25 <i>R. delexopi</i> MYP-2009-512-26     2572 Y. 99*97E     Haadanba, Dali, Yunnan, China       RD26 <i>R. delexopi</i> MYP-2009-512-27     2572 Y. 99*97E     Haadanba, Dali, Yunnan, China <t< td=""><td>RD12 RD13</td><td>R. delavayi</td><td>MYP-2009-5-12-13</td><td>25°52'N, 99°59'E</td><td>Huadianba, Dali, Yunnan, China</td></t<>	RD12 RD13	R. delavayi	MYP-2009-5-12-13	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD16 <i>R. delawyi</i> MYP-2009-512-16     25521N, 99759'E     Huadianba, Dali, Yuman, China       RD17 <i>R. delawyi</i> MYP-2009-512-17     25532N, 99759'E     Huadianba, Dali, Yuman, China       RD18 <i>R. delawyi</i> MYP-2009-512-19     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD19 <i>R. delawyi</i> MYP-2009-512-19     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD20 <i>R. delawyi</i> MYP-2009-512-21     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD21 <i>R. delawyi</i> MYP-2009-512-23     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD22 <i>R. delawyi</i> MYP-2009-512-23     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD24 <i>R. delawyi</i> MYP-2009-512-24     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD24 <i>R. delawyi</i> MYP-2009-512-24     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD24 <i>R. delawyi</i> MYP-2009-512-26     25532'N, 99759'E     Huadianba, Dali, Yuman, China       RD26 <i>R. delawyi</i> MYP-2009-512-26     25532'N, 99759'E     Huadianba, Dali, Yuman, China	RD14	R. delavayi	MYP-2009-5-12-14	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD16 <i>R. delawayi</i> MYP-2009-512-16     25521N, 99759E     Huadianba, Dali, Yunnan, China       RD18 <i>R. delawayi</i> MYP-2009-512-18     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD19 <i>R. delawayi</i> MYP-2009-512-19     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD20 <i>R. delawayi</i> MYP-2009-512-20     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD21 <i>R. delawayi</i> MYP-2009-512-21     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD23 <i>R. delawayi</i> MYP-2009-512-22     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD24 <i>R. delawayi</i> MYP-2009-512-24     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD25 <i>R. delawayi</i> MYP-2009-512-26     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD26 <i>R. delawayi</i> MYP-2009-512-28     25532N, 99759E     Huadianba, Dali, Yunnan, China       RD28 <i>R. delawayi</i> MYP-2009-512-28     25532N, 99759E     Huadianba, Dali, Yunan, China       RD28 <i>R. delawayi</i> MYP-2009-512-28     25532N, 99759E     Huadianba, Dali, Yunana, China	RD15	R. delavayi	MYP-2009-5-12-15	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD17 <i>R. delawayi</i> MYP-2009-512-17     25*32'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD19 <i>R. delawayi</i> MYP-2009-512-19     25*32'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD20 <i>R. delawayi</i> MYP-2009-512-21     25*32'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD21 <i>R. delawayi</i> MYP-2009-512-21     25*32'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD23 <i>R. delawayi</i> MYP-2009-512-23     25*32'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD24 <i>R. delawayi</i> MYP-2009-512-23     25*32'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD25 <i>R. delawayi</i> MYP-2009-512-23     25*52'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD26 <i>R. delawayi</i> MYP-2009-512-27     25*52'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD27 <i>R. delawayi</i> MYP-2009-512-29     25*52'N, 99*59'E     Huadianba, Dali, Yunnan, China       RD28 <i>R. delawayi</i> MYP-2009-512-29     25*52'N, 99*59'E     Huadianba, Dali, Yunnan, China       RC3 <i>R. cyancarpum</i> MYP-2009-512-29     25*52'N, 99*59'E     Huadianba, Dali, Yunnan, China </td <td>RD16</td> <td>R. delavayi</td> <td>MYP-2009-5-12-16</td> <td>25°52'N, 99°59'E</td> <td>Huadianba, Dali, Yunnan, China</td>	RD16	R. delavayi	MYP-2009-5-12-16	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD18 <i>R. delawyi</i> MYP-2009-512-18     25%27N, 99%59°E     Huadianba, Dali, Yunnan, China       RD19 <i>R. delawyi</i> MYP-2009-512-20     25%27N, 99%59°E     Huadianba, Dali, Yunnan, China       RD21 <i>R. delawyi</i> MYP-2009-512-21     25%32'N, 99%59°E     Huadianba, Dali, Yunnan, China       RD22 <i>R. delawyi</i> MYP-2009-512-22     25%32'N, 99%59°E     Huadianba, Dali, Yunnan, China       RD24 <i>R. delawyi</i> MYP-2009-512-24     25%32'N, 99%59°E     Huadianba, Dali, Yunnan, China       RD25 <i>R. delawyi</i> MYP-2009-512-26     25%32'N, 99%59°E     Huadianba, Dali, Yunnan, China       RD26 <i>R. delawyi</i> MYP-2009-512-26     25%32'N, 99%39°E     Huadianba, Dali, Yunnan, China       RD26 <i>R. delawyi</i> MYP-2009-512-28     25%32'N, 99%39°E     Huadianba, Dali, Yunnan, China       RD28 <i>R. delawyi</i> MYP-2009-512-28     25%32'N, 99%39°E     Huadianba, Dali, Yunnan, China       RD29 <i>R. delawyi</i> MYP-2009-512-28     25%32'N, 99%39°E     Huadianba, Dali, Yunnan, China       RD20 <i>R. delawyi</i> MYP-2009-512-28     25%32'N, 99%39°E     Huadianba, Dali, Yunnan, China	RD17	R. delavayi	MYP-2009-5-12-17	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD19 <i>R. delavoyi</i> MYP-2009-512-20     25527, 99*59°E     Huadianba, Dai, Yunnan, China       RD21 <i>R. delavoyi</i> MYP-2009-512-21     25527, 99*59°E     Huadianba, Dai, Yunnan, China       RD23 <i>R. delavoyi</i> MYP-2009-512-22     25527, 99*59°E     Huadianba, Dai, Yunnan, China       RD24 <i>R. delavoyi</i> MYP-2009-512-23     25527, 99*59°E     Huadianba, Dai, Yunnan, China       RD24 <i>R. delavoyi</i> MYP-2009-512-24     25527, 99*59°E     Huadianba, Dai, Yunnan, China       RD25 <i>R. delavoyi</i> MYP-2009-512-27     25*527, 99*59°E     Huadianba, Dai, Yunnan, China       RD26 <i>R. delavoyi</i> MYP-2009-512-27     25*527, 99*59°E     Huadianba, Dai, Yunnan, China       RD28 <i>R. delavoyi</i> MYP-2009-512-20     25*527, 99*59°E     Huadianba, Dai, Yunnan, China       RD30 <i>R. delavoyi</i> MYP 2009-513-3     25*527, 99*59°E     Huadianba, Dai, Yunnan, China       RC3 <i>R. cyancarpum</i> MYP 2009-513-3     25*527, 99*59°E     Huadianba, Dai, Yunnan, China       RC4 <i>R cyancarpum</i> MYP 2009-513-4     25*527, 99*59°E     Huadianba, Dai, Yunnan, China	RD18	R. delavayi	MYP-2009-5-12-18	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD20RdelavayiMYP-2009-512-20 $25^{55}21$ $99^{59}26$ Huadiarba, Dali, Yuman, ChinaRD21RdelavayiMYP-2009-512-22 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRD23RdelavayiMYP-2009-512-23 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRD24RdelavayiMYP-2009-512-24 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRD26RdelavayiMYP-2009-512-27 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRD27RdelavayiMYP-2009-512-28 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRD28RdelavayiMYP-2009-512-29 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRD30RdelavayiMYP-2009-512-30 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRC3RcyaracarpumMYP. 2009-513-3 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRC4RcyaracarpumMYP. 2009-513-3 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRC3RcyaracarpumMYP. 2009-513-20 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRC3RcyaracarpumMYP. 2009-513-20 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRC4RcyaracarpumMYP. 2009-513-20 $25^{55}27$ $99^{59}59$ Huadiarba, Dali, Yuman, ChinaRC23RcyaracarpumMYP. 2009-	RD19	R. delavayi	MYP-2009-5-12-19	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD21R. delavoyiMYP-2009-512-21 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRD23R. delavoyiMYP-2009-512-23 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRD24R. delavoyiMYP-2009-512-23 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRD25R. delavoyiMYP-2009-512-25 $25^{552}$ N, $99^{559}$ PEHuadianba, Dali, Yunnan, ChinaRD26R. delavoyiMYP-2009-512-27 $25^{552}$ N, $99^{559}$ PEHuadianba, Dali, Yunnan, ChinaRD27R. delavoyiMYP-2009-512-27 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRD28R. delavoyiMYP-2009-512-29 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRD30R. delavoyiMYP-2009-51-31 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRC1R. cyancarpumMYP, 2009-51-31 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRC3R. cyancarpumMYP, 2009-51-34 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRC4R. cyancarpumMYP, 2009-51-34 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRC3R. cyancarpumMYP, 2009-51-32 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRC4R. cyancarpumMYP, 2009-51-32 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRC3R. cyancarpumMYP, 2009-51-32 $25^{552}$ N, $99^{59}$ PEHuadianba, Dali, Yunnan, ChinaRC20R. cyancarpumMYP, 2009-51-32 $25$	RD20	R. delavayi	MYP-2009-5-12-20	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RD22 <i>R. delawayi</i> MYP-2009-51-2:21     25 52 N, 99 59 E     Huadianba, Dai, Yunnan, China       RD24 <i>R. delawayi</i> MYP-2009-51-2:24     25 52 N, 99 59 E     Huadianba, Dai, Yunnan, China       RD25 <i>R. delawayi</i> MYP-2009-51-2:24     25 52 N, 99 59 E     Huadianba, Dai, Yunnan, China       RD26 <i>R. delawayi</i> MYP-2009-51-2:26     25 52 N, 99 59 E     Huadianba, Dai, Yunnan, China       RD27 <i>R. delawayi</i> MYP-2009-51-2:28     25 52 N, 99 59 E     Huadianba, Dai, Yunnan, China       RD28 <i>R. delawayi</i> MYP-2009-51-2:29     25 52 N, 99 59 F     Huadianba, Dai, Yunnan, China       RD29 <i>R. delawayi</i> MYP-2009-51-1:30     25 52 N, 99 59 F     Huadianba, Dai, Yunnan, China       RC3 <i>R. cyancarpum</i> MYP, 2009-5-13-4     25 52 N, 99 59 F     Huadianba, Dai, Yunnan, China       RC4 <i>R cyancarpum</i> MYP, 2009-5-13-8     25 52 N, 99 59 F     Huadianba, Dai, Yunnan, China       RC3 <i>R cyancarpum</i> MYP, 2009-5-13-2     25 52 N, 99 59 F     Huadianba, Dai, Yunnan, China       RC4 <i>R cyancarpum</i> MYP, 2009-5-13-2     25 52 N, 99 59 F     Huadianba, Dai, Yunnan, China </td <td>RD21</td> <td>R. delavayi</td> <td>MYP-2009-5-12-21</td> <td>25°52'N, 99°59'E</td> <td>Huadianba, Dali, Yunnan, China</td>	RD21	R. delavayi	MYP-2009-5-12-21	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
KD23 <i>R. delawayi</i> M1P-2009-51-22.3     25*27 N, 99*59 E     Huadiama, Dai, Yunnan, China       RD24 <i>R. delawayi</i> MYP-2009-51-22.4     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RD25 <i>R. delawayi</i> MYP-2009-51-22.6     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RD26 <i>R. delawayi</i> MYP-2009-51-22     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RD28 <i>R. delawayi</i> MYP-2009-51-23     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RD30 <i>R. delawayi</i> MYP-2009-51-20     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RC1 <i>R. cyuncarpuan</i> MYP, 2009-51-31     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RC3 <i>R. cyuncarpuan</i> MYP, 2009-51-34     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RC4 <i>R. cyuncarpuan</i> MYP, 2009-51-31 2     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RC3 <i>R. cyuncarpuan</i> MYP, 2009-51-32     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan, China       RC4 <i>R. cyuncarpuan</i> MYP, 2009-51-32     25*527 N, 99*59 E     Huadiamba, Dai, Yunnan	RD22	R. delavayi	MYP-2009-5-12-22	25°52′N, 99°59′E	Huadianba, Dali, Yunnan, China
RD24 <i>R. delatayi</i> M1P-2005-51-2:24     2.5 2 (r. y. 97 39 E     Huadianba, Dali, Yunnan, China       RD25 <i>R. delavayi</i> MYP-2009-51-2:26     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RD26 <i>R. delavayi</i> MYP-2009-51-2:27     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RD28 <i>R. delavayi</i> MYP-2009-51-2:28     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RD30 <i>R. delavayi</i> MYP-2009-51-2:30     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RC3 <i>R. cyancarpum</i> MYP, 2009-5-13-3     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RC4 <i>R. cyancarpum</i> MYP, 2009-5-13-8     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RC5 <i>R. cyancarpum</i> MYP, 2009-5-13-8     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RC6 <i>R. cyancarpum</i> MYP, 2009-5-13-2     255 27 N, 97 59 E     Huadianba, Dali, Yunnan, China       RC20 <i>R. cyancarpum</i> MYP, 2009-5-13-2     255 27 N, 97 59 F     Huadianba, Dali, Yunnan, China       RC21 <i>R. cyancarpum</i> MYP, 2009-5-13-23     255 27 N, 97 59 F <td< td=""><td>RD23</td><td>R. delavayi</td><td>MYP-2009-5-12-23</td><td>25°52′N, 99°59′E</td><td>Huadianba, Dali, Yunnan, China</td></td<>	RD23	R. delavayi	MYP-2009-5-12-23	25°52′N, 99°59′E	Huadianba, Dali, Yunnan, China
ND25     R. datanoyi     N17-2009-51-22.5     2.5 St N, 99'39'E     Huadianba, Dali, Yunnan, China       RD26     R. delavayi     MYP-2009-51-12.26     25'52'N, 99'39'E     Huadianba, Dali, Yunnan, China       RD27     R. delavayi     MYP-2009-51-12.28     25'52'N, 99'39'E     Huadianba, Dali, Yunnan, China       RD29     R. delavayi     MYP-2009-51-12.30     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC1     R. cyancorpum     MYP, 2009-5-13-1     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC3     R. cyancorpum     MYP, 2009-5-13-3     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC4     R. cyancorpum     MYP, 2009-5-13-8     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC3     R. cyancorpum     MYP, 2009-5-13-20     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC20     R. cyancorpum     MYP, 2009-5-13-20     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC21     R. cyancorpum     MYP, 2009-5-13-20     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC22     R. cyancorpum     MYP, 2009-5-13-22     25'5'5'N, 99'59'E     Huadianba, Dali, Yunnan,	RD24 PD25	R. delavayi P. delavayi	MYP 2009-5-12-24 MVP 2000 5-12-25	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
ND     R     R     MYP     2009     5:12.57     25:52 N; 69:59 E     Huadianba, Dail, Yunnan, China       RD28     R. delavayi     MYP-2009-5:12.29     25:52 N; 69:59 E     Huadianba, Dail, Yunnan, China       RD29     R. delavayi     MYP-2009-5:12.29     25:52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RD30     R. delavayi     MYP-2009-5:13:1     25:52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RC3     R. cyancarpum     MYP, 2009-5:13:3     25:52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RC4     R. cyancarpum     MYP, 2009-5:13:4     25'52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RC5     R. cyancarpum     MYP, 2009-5:13:20     25'52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RC13     R. cyancarpum     MYP, 2009-5:13:20     25'52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RC20     R. cyancarpum     MYP, 2009-5:13:20     25'52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RC21     R. cyancarpum     MYP, 2009-5:13:20     25'52 N; 99'59 E     Huadianba, Dail, Yunnan, China       RC22     R. cyancarpum     MYP, 2009-5:13:20     25'52 N; 99'59 E	RD25 RD26	R. delavayi	MTF-2009-5-12-25 MVP-2009-5-12-26	25 52 N, 99 59 E 25°52'N 99°59'E	Huadianba Dali Yunnan China
RD28R. delavayiMYP-2009-512-28 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRD29R. delavayiMYP-2009-512-29 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRD30R. delavayiMYP-2009-512-30 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC1R. cyancarpumMYP 2009-513-3 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC4R. cyancarpumMYP 2009-513-8 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC5R. cyancarpumMYP 2009-513-8 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC6R. cyancarpumMYP 2009-513-13 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC20R. cyancarpumMYP 2009-513-20 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC21R. cyancarpumMYP 2009-513-21 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC23R. cyancarpumMYP 2009-513-27 $25^{+}52^{+}1, 90^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC26R. cyancarpumMYP 2009-513-27 $25^{+}52^{+}1, 99^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC30R. cyancarpumMYP 2009-513-31 $25^{+}52^{+}1, 99^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC34R. cyancarpumMYP 2009-513-32 $25^{+}52^{+}1, 99^{+}59^{+}59^{+}1E$ Huadiamba, Dali, Yunnan, ChinaRC34R. cyancarpumMYP 2009-513-33 $25^{+}52^{+}1, 99^{+}59^{+}59^{+}1E$ Huadiamba, Dali, Yun	RD20 RD27	R delavayi	MYP-2009-5-12-20	25°52'N 99°59'E	Huadianba, Dali, Yunnan, China
RD29 $R. delavayi$ MYP-2009-5-12-29 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RD30 $R. delavayi$ MYP-2009-5-12-30 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC1 $R. cyancarpum$ MYP. 2009-5-13-1 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC3 $R. cyancarpum$ MYP. 2009-5-13-4 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC4 $R. cyancarpum$ MYP. 2009-5-13-4 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC3 $R. cyancarpum$ MYP. 2009-5-13-29 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC20 $R. cyancarpum$ MYP. 2009-5-13-23 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC23 $R. cyancarpum$ MYP. 2009-5-13-23 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC24 $R. cyancarpum$ MYP. 2009-5-13-23 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China       RC26 $R. cyancarpum$ MYP. 2009-5-13-30 $25^{+}52^{+}N, 99^{+}59^{+}F$ Huadianba, Dali, Yunnan, China <t< td=""><td>RD28</td><td>R. delavayi</td><td>MYP-2009-5-12-28</td><td>25°52'N 99°59'E</td><td>Huadianba, Dali, Yunnan, China</td></t<>	RD28	R. delavayi	MYP-2009-5-12-28	25°52'N 99°59'E	Huadianba, Dali, Yunnan, China
RD30     R. $delaw_{0}^{ri}$ MYP-2009-512-30     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC1     R. cyancarpum     MYP, 2009-513-1     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC4     R. cyancarpum     MYP, 2009-513-8     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC4     R. cyancarpum     MYP, 2009-513-8     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC5     R. cyancarpum     MYP, 2009-513-8     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC3     R. cyancarpum     MYP, 2009-513-13     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC20     R. cyancarpum     MYP, 2009-513-23     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC23     R. cyancarpum     MYP, 2009-513-23     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC24     R. cyancarpum     MYP, 2009-513-23     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC25     R. cyancarpum     MYP, 2009-513-26     25%21%, 99%91E     Huadianba, Dali, Yunnan, China       RC26     R. cyancarpum     MYP, 2009-513-30     25%21%, 99%91E     Huadianba, Dali, Yunnan, China	RD29	R. delavayi	MYP-2009-5-12-29	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC1     R. cyancarpum     MYP. 2009-5-13-1 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC3     R. cyancarpum     MYP. 2009-5-13-4 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC4     R. cyancarpum     MYP. 2009-5-13-8 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC5     R. cyancarpum     MYP. 2009-5-13-8 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC13     R. cyancarpum     MYP. 2009-5-13-2 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC20     R. cyancarpum     MYP. 2009-5-13-20 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC23     R. cyancarpum     MYP. 2009-5-13-22 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC26     R. cyancarpum     MYP. 2009-5-13-22 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC30     R. cyancarpum     MYP. 2009-5-13-22 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC31     R. cyancarpum     MYP. 2009-5-13-23 $25^{5}21$ N. 99'59'E     Huadianba, Dai, Yunnan, China       RC32     R. cyancarpum     MYP. 2009-5-13-31 $25^{5}21$ N. 99'59'E <td>RD30</td> <td>R. delavayi</td> <td>MYP-2009-5-12-30</td> <td>25°52'N, 99°59'E</td> <td>Huadianba, Dali, Yunnan, China</td>	RD30	R. delavayi	MYP-2009-5-12-30	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC3     R. cyancarpum     MYP. 2009-5-13-3 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC4     R. cyancarpum     MYP. 2009-5-13-8 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC9     R. cyancarpum     MYP. 2009-5-13-8 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC13     R. cyancarpum     MYP. 2009-5-13-13 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC20     R. cyancarpum     MYP. 2009-5-13-20 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC21     R. cyancarpum     MYP. 2009-5-13-22 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC23     R. cyancarpum     MYP. 2009-5-13-22 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC27     R. cyancarpum     MYP. 2009-5-13-27 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC30     R. cyancarpum     MYP. 2009-5-13-31 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC31     R. cyancarpum     MYP. 2009-5-13-31 $25^{5}2'N$ , $99^{5}9'E$ Huadianba, Dali, Yunnan, China       RC32     R. cyancarpum     MYP.	RC1	R. cyancarpum	MYP, 2009-5-13-1	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC4R. cyancarpumMYP, 2009-5-13-4 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC9R. cyancarpumMYP, 2009-5-13-9 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC13R. cyancarpumMYP, 2009-5-13-20 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC20R. cyancarpumMYP, 2009-5-13-23 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC21R. cyancarpumMYP, 2009-5-13-23 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC22R. cyancarpumMYP, 2009-5-13-22 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC23R. cyancarpumMYP, 2009-5-13-26 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC26R. cyancarpumMYP, 2009-5-13-29 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC30R. cyancarpumMYP, 2009-5-13-30 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC31R. cyancarpumMYP, 2009-5-13-31 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC33R. cyancarpumMYP, 2009-5-13-33 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC34R. cyancarpumMYP, 2009-5-13-33 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC35R. cyancarpumMYP, 2009-5-13-34 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC36R. cyancarpumMYP, 2009-5-13-37 $25^{52}$ :N, 99*59'EHuadianba, Dali, Yunnan, ChinaRC37R. cyancarpumMYP, 2009-5-13-36 $25^{52}$ :N, 99*59'EHuadianba,	RC3	R. cyancarpum	MYP, 2009-5-13-3	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC8 $R.$ cyancarpumMYP, 2009-5-13-825*22°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC13 $R.$ cyancarpumMYP, 2009-5-13-1325*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC20 $R.$ cyancarpumMYP, 2009-5-13-2025*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC21 $R.$ cyancarpumMYP, 2009-5-13-2225*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC23 $R.$ cyancarpumMYP, 2009-5-13-2225*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC26 $R.$ cyancarpumMYP, 2009-5-13-2725*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC27 $R.$ cyancarpumMYP, 2009-5-13-2025*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC30 $R.$ cyancarpumMYP, 2009-5-13-3025*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC31 $R.$ cyancarpumMYP, 2009-5-13-3125*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC32 $R.$ cyancarpumMYP, 2009-5-13-3325*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC33 $R.$ cyancarpumMYP, 2009-5-13-3325*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC34 $R.$ cyancarpumMYP, 2009-5-13-3525*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC35 $R.$ cyancarpumMYP, 2009-5-13-3525*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC36 $R.$ cyancarpumMYP, 2009-5-13-3625*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC37 $R.$ cyancarpumMYP, 2009-5-13-3725*52°, 99*59°EHuadianba, Dali, Yunnan, ChinaRC38 </td <td>RC4</td> <td>R. cyancarpum</td> <td>MYP, 2009-5-13-4</td> <td>25°52'N, 99°59'E</td> <td>Huadianba, Dali, Yunnan, China</td>	RC4	R. cyancarpum	MYP, 2009-5-13-4	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC9 $R.$ cyancarpum     MYP, 2009-5-13-19 $25^{+}52^{-}78, 99^{+}59^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC13 $R.$ cyancarpum     MYP, 2009-5-13-20 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC22 $R.$ cyancarpum     MYP, 2009-5-13-23 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC23 $R.$ cyancarpum     MYP, 2009-5-13-26 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC26 $R.$ cyancarpum     MYP, 2009-5-13-26 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC27 $R.$ cyancarpum     MYP, 2009-5-13-20 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC31 $R.$ cyancarpum     MYP, 2009-5-13-31 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC32 $R.$ cyancarpum     MYP, 2009-5-13-31 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC33 $R.$ cyancarpum     MYP, 2009-5-13-34 $25^{+}52^{-}78, 99^{+}59^{+}51^{-}$ Huadianba, Dali, Yunnan, China       RC34 $R.$ cyancarpum     MYP, 2009-5-13-34 $25^{+}52^{-}78, 99^{+}59^{+$	RC8	R. cyancarpum	MYP, 2009-5-13-8	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC13     R. cyancarpum     MYP, 2009-5-13-20     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC22     R. cyancarpum     MYP, 2009-5-13-23     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC23     R. cyancarpum     MYP, 2009-5-13-22     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC26     R. cyancarpum     MYP, 2009-5-13-27     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC27     R. cyancarpum     MYP, 2009-5-13-30     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC30     R. cyancarpum     MYP, 2009-5-13-30     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC31     R. cyancarpum     MYP, 2009-5-13-30     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC33     R. cyancarpum     MYP, 2009-5-13-33     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC34     R. cyancarpum     MYP, 2009-5-13-33     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC35     R. cyancarpum     MYP, 2009-5-13-33     25°52 N, 99°59 E     Huadianba, Dali, Yunnan, China       RC36     R. cyancarpum     MYP, 2009-5-13-33     25°52 N, 99°59 E     Huadianba,	RC9	R. cyancarpum	MYP, 2009-5-13-9	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC20     R. Cyancarpum     MYP, 2009-5-13-20 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC23     R. Cyancarpum     MYP, 2009-5-13-22 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC26     R. Cyancarpum     MYP, 2009-5-13-22 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC27     R. Cyancarpum     MYP, 2009-5-13-27 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC30     R. cyancarpum     MYP, 2009-5-13-30 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC31     R. cyancarpum     MYP, 2009-5-13-31 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC32     R. cyancarpum     MYP, 2009-5-13-31 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC33     R. cyancarpum     MYP, 2009-5-13-34 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC34     R. cyancarpum     MYP, 2009-5-13-35 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC35     R. cyancarpum     MYP, 2009-5-13-36 $25^{+}52^{+}$ N, 99^{+}59^{+}E     Huadianba, Dai, Yunnan, China       RC	RC13	R. cyancarpum	MYP, 2009-5-13-13	25°52′N, 99°59′E	Huadianba, Dali, Yunnan, China
RC22     R. Cyancarpum     MTP, 2009-5-13-22     25 32 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC26     R. cyancarpum     MYP, 2009-5-13-22     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC27     R. cyancarpum     MYP, 2009-5-13-27     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC29     R. cyancarpum     MYP, 2009-5-13-29     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC30     R. cyancarpum     MYP, 2009-5-13-32     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC31     R. cyancarpum     MYP, 2009-5-13-32     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC33     R. cyancarpum     MYP, 2009-5-13-31     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC34     R. cyancarpum     MYP, 2009-5-13-34     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC35     R. cyancarpum     MYP, 2009-5-13-35     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC36     R cyancarpum     MYP, 2009-5-13-37     25 52 N, 99 59 E     Huadianba, Dali, Yunnan, China       RC37     R cyancarpum     MYP, 2009-5-13-37     25 52 N, 99 59 E     Huadianba, Da	RC20 RC22	R. cyancarpum	MYP, 2009-5-13-20 MYP, 2000-5-12-22	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC25     R. Cyancarpum     MYP, 2009-5-13-26     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC27     R. cyancarpum     MYP, 2009-5-13-27     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC30     R. cyancarpum     MYP, 2009-5-13-30     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC31     R. cyancarpum     MYP, 2009-5-13-31     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC32     R. cyancarpum     MYP, 2009-5-13-31     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC33     R. cyancarpum     MYP, 2009-5-13-31     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC34     R. cyancarpum     MYP, 2009-5-13-33     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC35     R. cyancarpum     MYP, 2009-5-13-35     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC36     R. cyancarpum     MYP, 2009-5-13-35     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC37     R. cyancarpum     MYP, 2009-5-13-37     25'52'N, 99'59'E     Huadianba, Dali, Yunnan, China       RC38     R. cyancarpum     MYP, 2009-5-13-34     25'52'N, 99'59'E     Huadianba,	RC22 PC23	R. cyancarpum	MTP, 2009-5-13-25 MVP 2000 5 13 22	25 52 N, 99 59 E 25°52'N 00°50'E	Huadianba Dali Yunnan China
RC27   R. cyancarpum   MYP. 2009-5-13-27   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC29   R. cyancarpum   MYP. 2009-5-13-29   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC30   R. cyancarpum   MYP. 2009-5-13-30   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC31   R. cyancarpum   MYP. 2009-5-13-31   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC32   R. cyancarpum   MYP. 2009-5-13-32   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC33   R. cyancarpum   MYP. 2009-5-13-33   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC34   R. cyancarpum   MYP. 2009-5-13-34   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC35   R. cyancarpum   MYP. 2009-5-13-36   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC36   R. cyancarpum   MYP. 2009-5-13-37   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC37   R. cyancarpum   MYP. 2009-5-13-37   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC38   R. cyancarpum   MYP. 2009-5-13-37   25*52 N. 99*59'E   Huadianba, Dali, Yunnan, China     RC40   R. cyancarpum   <	RC26	R cyancarpum	MYP 2009-5-13-26	25°52'N 99°59'E	Huadianba, Dali, Yunnan, China
RC29     R. cyancarpum     MYP, 2009-5-13-29     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC30     R. cyancarpum     MYP, 2009-5-13-30     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC31     R. cyancarpum     MYP, 2009-5-13-32     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC32     R. cyancarpum     MYP, 2009-5-13-32     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC33     R. cyancarpum     MYP, 2009-5-13-32     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC34     R. cyancarpum     MYP, 2009-5-13-35     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC35     R. cyancarpum     MYP, 2009-5-13-35     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC36     R. cyancarpum     MYP, 2009-5-13-36     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC37     R. cyancarpum     MYP, 2009-5-13-38     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC39     R. cyancarpum     MYP, 2009-5-13-38     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC40     R. cyancarpum     MYP, 2009-5-13-41     25°52'N, 99°59'E     Huadianba,	RC27	R. cyancarpum	MYP. 2009-5-13-27	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC30 <i>R. cyancarpum</i> MYP, 2009-5-13-30     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC31 <i>R. cyancarpum</i> MYP, 2009-5-13-31     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC32 <i>R. cyancarpum</i> MYP, 2009-5-13-32     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC33 <i>R. cyancarpum</i> MYP, 2009-5-13-33     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC34 <i>R. cyancarpum</i> MYP, 2009-5-13-35     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC35 <i>R. cyancarpum</i> MYP, 2009-5-13-36     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC36 <i>R. cyancarpum</i> MYP, 2009-5-13-36     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC37 <i>R. cyancarpum</i> MYP, 2009-5-13-38     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC40 <i>R. cyancarpum</i> MYP, 2009-5-13-41     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC41 <i>R. cyancarpum</i> MYP, 2009-5-13-42     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC44 <i>R. cyancarpum</i> MYP, 2009-5-13-41     25°52'N, 99°59'E	RC29	R. cyancarpum	MYP, 2009-5-13-29	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC31R. cyancarpumMYP, 2009-5-13-31 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC32R. cyancarpumMYP, 2009-5-13-32 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC33R. cyancarpumMYP, 2009-5-13-33 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC34R. cyancarpumMYP, 2009-5-13-34 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC35R. cyancarpumMYP, 2009-5-13-35 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC36R. cyancarpumMYP, 2009-5-13-37 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC37R. cyancarpumMYP, 2009-5-13-37 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC38R. cyancarpumMYP, 2009-5-13-38 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC39R. cyancarpumMYP, 2009-5-13-40 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-41 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC42R. cyancarpumMYP, 2009-5-13-42 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-44 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-14-4 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-4 $25^{\circ}52'N, 99^{\circ}59'E$ Huadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 200	RC30	R. cyancarpum	MYP, 2009-5-13-30	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC32R. cyancarpumMYP, 2009-5-13-32 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC33R. cyancarpumMYP, 2009-5-13-33 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC34R. cyancarpumMYP, 2009-5-13-35 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC35R. cyancarpumMYP, 2009-5-13-36 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC36R. cyancarpumMYP, 2009-5-13-36 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC37R. cyancarpumMYP, 2009-5-13-37 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC38R. cyancarpumMYP, 2009-5-13-38 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC40R. cyancarpumMYP, 2009-5-13-40 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-40 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC43R. cyancarpumMYP, 2009-5-13-41 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-43 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-43 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-4 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP2Putative hybridMYP, 2009-5-14-4 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 200	RC31	R. cyancarpum	MYP, 2009-5-13-31	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC33R. cyancarpumMYP, 2009-5-13-33 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC34R. cyancarpumMYP, 2009-5-13-35 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC35R. cyancarpumMYP, 2009-5-13-36 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC36R. cyancarpumMYP, 2009-5-13-37 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC37R. cyancarpumMYP, 2009-5-13-37 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC38R. cyancarpumMYP, 2009-5-13-39 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC40R. cyancarpumMYP, 2009-5-13-40 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-41 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC43R. cyancarpumMYP, 2009-5-13-42 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-44 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-14-3 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-3 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaP2Putative hybridMYP, 2009-5-14-3 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-3 $25^{\circ}52^{\circ}N$ , $99^{$	RC32	R. cyancarpum	MYP, 2009-5-13-32	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC34R. cyancarpumMYP, 2009-5-13-34 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC35R. cyancarpumMYP, 2009-5-13-35 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC36R. cyancarpumMYP, 2009-5-13-36 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC37R. cyancarpumMYP, 2009-5-13-37 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC38R. cyancarpumMYP, 2009-5-13-38 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC39R. cyancarpumMYP, 2009-5-13-40 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-40 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC42R. cyancarpumMYP, 2009-5-13-41 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC43R. cyancarpumMYP, 2009-5-13-43 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-43 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-14-4 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-2 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaP2Putative hybridMYP, 2009-5-14-4 $25^{\circ}52^{\circ}N$ , $99^{\circ}59^{\circ}E$ Huadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-6 $25^{\circ}52^{\circ}N$ , $99^{$	RC33	R. cyancarpum	MYP, 2009-5-13-33	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC35R. cyancarpumMYP, 2009-5-13-35 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC36R. cyancarpumMYP, 2009-5-13-36 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC37R. cyancarpumMYP, 2009-5-13-37 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC38R. cyancarpumMYP, 2009-5-13-38 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC40R. cyancarpumMYP, 2009-5-13-40 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-41 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC42R. cyancarpumMYP, 2009-5-13-42 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC43R. cyancarpumMYP, 2009-5-13-42 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-43 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-14-4 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-2 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-3 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-3 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-4 $25^\circ52^\circ$ N, $99^\circ59^\circ$ EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5	RC34	R. cyancarpum	MYP, 2009-5-13-34	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC 36R. cyancarpumMYP, 2009-5-13-36 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 37R. cyancarpumMYP, 2009-5-13-37 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 38R. cyancarpumMYP, 2009-5-13-38 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 40R. cyancarpumMYP, 2009-5-13-40 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 41R. cyancarpumMYP, 2009-5-13-41 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 42R. cyancarpumMYP, 2009-5-13-42 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 43R. cyancarpumMYP, 2009-5-13-43 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 44R. cyancarpumMYP, 2009-5-13-43 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaRC 44R. cyancarpumMYP, 2009-5-14-4 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-3 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-3 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-4 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-5 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-6 $25^{\circ}52^{\circ}N$ , 99°59'EHuadianba, Dali, Yunnan, ChinaP8Putative hybridMYP	RC35	R. cyancarpum	MYP, 2009-5-13-35	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC37R. cyancarpumMYP, 2009-5-13-57 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaRC38R. cyancarpumMYP, 2009-5-13-38 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaRC40R. cyancarpumMYP, 2009-5-13-40 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-41 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaRC42R. cyancarpumMYP, 2009-5-13-42 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaRC43R. cyancarpumMYP, 2009-5-13-43 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-44 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-14-4 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-2 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaP2Putative hybridMYP, 2009-5-14-3 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-4 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-5 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-6 $25^{\circ}52^{\circ}$ N, $99^{\circ}59^{\circ}$ EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-7 <td< td=""><td>RC36</td><td>R. cyancarpum</td><td>MYP, 2009-5-13-36</td><td>25°52′N, 99°59′E</td><td>Huadianba, Dali, Yunnan, China</td></td<>	RC36	R. cyancarpum	MYP, 2009-5-13-36	25°52′N, 99°59′E	Huadianba, Dali, Yunnan, China
RC39R. CyancarpumM PP, 2009-5-13-3925°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaRC40R. cyancarpumMYP, 2009-5-13-4025°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-4125°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaRC42R. cyancarpumMYP, 2009-5-13-4225°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaRC43R. cyancarpumMYP, 2009-5-13-4325°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-4425°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-14-425°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-125°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP2Putative hybridMYP, 2009-5-14-225°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-325°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-425°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-525°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-625°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP7Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP8Putative hybridMYP, 2009-5-14-825°52'N, 99°59'EHuadianba, Dai, Yunnan, ChinaP9Putative hybridMYP, 200	RC3/	R. cyancarpum	MYP 2009-5-13-37	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC30R. CyancarpumMTP, 2009-5-13-3025 S2 R, 99 S9 EHuadianba, Dali, Yunnan, ChinaRC40R. cyancarpumMYP, 2009-5-13-4025°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaRC41R. cyancarpumMYP, 2009-5-13-4125°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaRC42R. cyancarpumMYP, 2009-5-13-4225°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaRC43R. cyancarpumMYP, 2009-5-13-4325°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaRC44R. cyancarpumMYP, 2009-5-13-4425°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP1Putative hybridMYP, 2009-5-14-125°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP2Putative hybridMYP, 2009-5-14-225°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-325°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-425°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-525°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP7Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP8Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP9Putative hybridMYP, 2009-5-14-925°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP10Putative hybrid </td <td>RC30</td> <td>R. cyancarpum</td> <td>MTP, 2009-5-13-30</td> <td>25 52 N, 99 59 E 25°52'N 99°59'E</td> <td>Huadianba Dali Yunnan China</td>	RC30	R. cyancarpum	MTP, 2009-5-13-30	25 52 N, 99 59 E 25°52'N 99°59'E	Huadianba Dali Yunnan China
RC41   R. cyancarpum   MYP, 2009-5-13-41   25°22'N, 90°59'E   Huadianba, Dali, Yunnan, China     RC42   R. cyancarpum   MYP, 2009-5-13-42   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     RC43   R. cyancarpum   MYP, 2009-5-13-43   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     RC44   R. cyancarpum   MYP, 2009-5-13-43   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     RC44   R. cyancarpum   MYP, 2009-5-13-44   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     P1   Putative hybrid   MYP, 2009-5-14-1   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     P2   Putative hybrid   MYP, 2009-5-14-2   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     P3   Putative hybrid   MYP, 2009-5-14-3   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     P4   Putative hybrid   MYP, 2009-5-14-4   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     P5   Putative hybrid   MYP, 2009-5-14-5   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     P6   Putative hybrid   MYP, 2009-5-14-7   25°52'N, 90°59'E   Huadianba, Dali, Yunnan, China     P7   Putative hybrid   MYP	RC40	R. cyancarpum	MYP 2009-5-13-40	25°52'N 99°59'E	Huadianba, Dali, Yunnan, China
RC42     R. cyancarpum     MYP, 2009-5-13-42     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC43     R. cyancarpum     MYP, 2009-5-13-43     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC44     R. cyancarpum     MYP, 2009-5-13-44     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P1     Putative hybrid     MYP, 2009-5-14-1     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P2     Putative hybrid     MYP, 2009-5-14-2     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P3     Putative hybrid     MYP, 2009-5-14-3     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P4     Putative hybrid     MYP, 2009-5-14-4     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P5     Putative hybrid     MYP, 2009-5-14-5     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P6     Putative hybrid     MYP, 2009-5-14-6     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P7     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P8     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yu	RC41	R. cyancarpum	MYP. 2009-5-13-41	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC43 <i>R. cyancarpum</i> MYP, 2009-5-13-43     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       RC44 <i>R. cyancarpum</i> MYP, 2009-5-13-44     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P1     Putative hybrid     MYP, 2009-5-14-1     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P2     Putative hybrid     MYP, 2009-5-14-2     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P3     Putative hybrid     MYP, 2009-5-14-3     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P4     Putative hybrid     MYP, 2009-5-14-4     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P5     Putative hybrid     MYP, 2009-5-14-5     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P6     Putative hybrid     MYP, 2009-5-14-6     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P7     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P8     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P9     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali,	RC42	R. cyancarpum	MYP, 2009-5-13-42	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
RC44     R. cyancarpum     MYP, 2009-5-13-44     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P1     Putative hybrid     MYP, 2009-5-14-1     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P2     Putative hybrid     MYP, 2009-5-14-2     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P3     Putative hybrid     MYP, 2009-5-14-3     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P4     Putative hybrid     MYP, 2009-5-14-4     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P5     Putative hybrid     MYP, 2009-5-14-5     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P6     Putative hybrid     MYP, 2009-5-14-6     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P7     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P8     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P9     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P9     Putative hybrid     MYP, 2009-5-14-9     25°52'N, 99°59'E     Huadianba, Dali, Yunn	RC43	R. cyancarpum	MYP, 2009-5-13-43	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
P1Putative hybridMYP, 2009-5-14-125°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP2Putative hybridMYP, 2009-5-14-225°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-325°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-425°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-525°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-625°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP7Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP8Putative hybridMYP, 2009-5-14-825°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP9Putative hybridMYP, 2009-5-14-925°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP10Putative hybridMYP, 2009-5-14-1025°52'N, 99°59'EHuadianba, Dali, Yunnan, China	RC44	R. cyancarpum	MYP, 2009-5-13-44	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
P2Putative hybridMYP, 2009-5-14-225°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP3Putative hybridMYP, 2009-5-14-325°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-425°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-525°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-625°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP7Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP8Putative hybridMYP, 2009-5-14-825°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP9Putative hybridMYP, 2009-5-14-925°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP10Putative hybridMYP, 2009-5-14-1025°52'N, 99°59'EHuadianba, Dali, Yunnan, China	P1	Putative hybrid	MYP, 2009-5-14-1	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
P3Putative hybridMYP, 2009-5-14-325°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP4Putative hybridMYP, 2009-5-14-425°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP5Putative hybridMYP, 2009-5-14-525°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-625°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP7Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP8Putative hybridMYP, 2009-5-14-825°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP9Putative hybridMYP, 2009-5-14-925°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP10Putative hybridMYP, 2009-5-14-1025°52'N, 99°59'EHuadianba, Dali, Yunnan, China	P2	Putative hybrid	MYP, 2009-5-14-2	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
P4     Putative hybrid     MYP, 2009-5-14-4     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P5     Putative hybrid     MYP, 2009-5-14-5     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P6     Putative hybrid     MYP, 2009-5-14-6     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P7     Putative hybrid     MYP, 2009-5-14-6     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P8     Putative hybrid     MYP, 2009-5-14-7     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P9     Putative hybrid     MYP, 2009-5-14-8     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China       P10     Putative hybrid     MYP, 2009-5-14-10     25°52'N, 99°59'E     Huadianba, Dali, Yunnan, China	P3	Putative hybrid	MYP, 2009-5-14-3	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
P5Putative hybridMYP, 2009-5-14-525°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP6Putative hybridMYP, 2009-5-14-625°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP7Putative hybridMYP, 2009-5-14-725°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP8Putative hybridMYP, 2009-5-14-825°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP9Putative hybridMYP, 2009-5-14-825°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP10Putative hybridMYP, 2009-5-14-1025°52'N, 99°59'EHuadianba, Dali, Yunnan, China	P4	Putative hybrid	MYP, 2009-5-14-4	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China
ProPutative nyoridM Y P, 2009-5-14-625°52' N, 99°59' EHuadianba, Dali, Yunnan, ChinaP7Putative hybridMYP, 2009-5-14-725°52' N, 99°59' EHuadianba, Dali, Yunnan, ChinaP8Putative hybridMYP, 2009-5-14-825°52' N, 99°59' EHuadianba, Dali, Yunnan, ChinaP9Putative hybridMYP, 2009-5-14-925°52' N, 99°59' EHuadianba, Dali, Yunnan, ChinaP10Putative hybridMYP, 2009-5-14-1025°52' N, 99°59' EHuadianba, Dali, Yunnan, China	PD PC	Putative hybrid	MYP, 2009-5-14-5	25°52′N, 99°59′E	Huadianba, Dali, Yunnan, China
P8Putative hybridMYP, 2009-5-14-725 52 N, 99 59 EHuadianba, Dali, Yunnan, ChinaP9Putative hybridMYP, 2009-5-14-925°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP10Putative hybridMYP, 2009-5-14-1025°52'N, 99°59'EHuadianba, Dali, Yunnan, China	го D7	Putative hybrid	WITP, 2009-5-14-0 MVD 2000 5-14-7	25°52 IN, 99°59'E 25°52'N 00°50'E	Huadianba, Dali, Yunnan, China
P9Putative hybridMYP, 2009-5-14-925°52'N, 99°59'EHuadianba, Dali, Yunnan, ChinaP10Putative hybridMYP, 2009-5-14-1025°52'N, 99°59'EHuadianba, Dali, Yunnan, China	1 / P8	Futative hybrid	MYP 2009-3-14-7	25 52 IN, 99 59 E 25°52'N 00°50'E	Huadianba Dali Vunnan China
P10Putative hybridMYP, 2009-5-14-1025°52'N, 99°59'EHuadianba, Dali, Yunnan, China	P9	Putative hybrid	MYP 2009-5-14-9	25°52'N 99°59'E	Huadianba, Dali Yunnan China
	P10	Putative hybrid	MYP, 2009-5-14-10	25°52'N, 99°59'E	Huadianba, Dali, Yunnan, China