JCA

Trip No 8 Colombia 7th January - 28th January 1978 JCA4000 – 4099 Colombia

7 JANUARY, 1978 : LOC. Nº 1.				
	DEPARTMENT	LOCALITY	ALTITUDE	HABITAT NOTES
d'idaceae				×
:		• • •		
		÷ .		
20 JANUARY, 1978 : LOC. Nº 6				
Bomarisea sp.	Choco	Between Duibdo: & Bolwar	300 m.	Steep valley sides above river Forested, with dense undergrowth.
Urchidaceae	14	(180-170 km.		dovested, with dense undergrowth.
? Germetiacare	34	21	$\Delta = -\mathbf{n}$	n N
	ų	••	* 3	ei
?	h	•3	1	4
Gesneviaceae	1			1
R1 JANUARY, 1978 : LOC. № 7	Choco	đi	400 m.	n
22 JANUARY, 1978 : LOC. Nº 8				
? Acarthaceae	Choco	11	500m.	17
9	:	(160~150 km.		kala setensi s
? Indacese				te
	Áridaceae 20 JANUARY, 1978 : LOC. Nº 6 Bomarsea Ap. Urchidaceae ? Geannicaeae ? Geannicaeae ? Geannicaeae ? Geannicaeae ? JANUARY, 1978 : LOC. Nº 7 22 JANUARY, 1978 : LOC. Nº 8 ? Acardhaceae ? 2 Acardhaceae ?	Aidaceae RO JANUARY, 1978 : LOC. Nº 6 Bornarsea Ap. Urchidaceae ? Generisceae ? Generisceae ? Generisceae ? Quesnerisceae ? R1 JANUARY, 1978 : LOC. Nº 8 ? Quesnerisceae ? R21 JANUARY, 1978 : LOC. Nº 8 ? Quesnetisceae ? Quesnerisceae ? Quesnerisceae ? Quesnerisceae ? Quesnerisceae ? Quesnerisceae ? Quesnerisceae ? ? Quesnerisceae ? ? Quesnerisceae ? ? ? ? ? ? ? ? ? ? ? ? ?	20 JANUARY, 1978 : LOC. Nº 6 Bornarisan Ap. Clocor Builder & Beliver Urchichesse	DEPARTMENT LOCALITY ALTITUDE Bidaceae Image: State of the state

OTHER NOTES Urange & pinkish flowers; scandent stems to 10ft: 3m. White flowers; terrestrial; in damp places among gross; Scarlet flowers; 20~100cm More open sites; orange-yellow In moss on damp rocks; lelac frints ""; white & pink flower uncommon Gumson. White flowers; blue finits; piak bracts. [food plant of Mosphe lava] Seed collection only.; 30 cm.

9.	23 JANUARY , 1978	5 : LOC. Nº 9	Departmen	IT LOCALITY Between	ALTITUDE	HABITAT' NOTES
4011.			Cloco	Quebo & Bolivar		
10.	25 JANUARY, 19	978 : LOC. Nº 10				·
4018,	Compositae		Jolima	Nevado del Ruiz	5,000 m.	[hpper limit of vegetation just !
4013.			**	manuf, ESE of		J anour line. Beside boulders
4014.		(Lycopodiaceae)	+1	Manizoles		(volconic detritus.
4015,		(Pteridophyta)	49	17		11
4016.		("	•	16	+4	10
4017.		(")	ч	h		34
4018.	Erigeron		18	*1		44
4019,	Peinettya	(Ericanene)	n.	48		
4020,		(Compositae)	•	74		
4021.		(Compositae)	4	tş .	,,	4.
4022.			19	. 85 .		ta ta
4023.		(Compositae)	"	1/	199 • • • • • • • • • • • • • • • • • • •	H
4024.		(Cruciferae)	•	te	14	
4025.			1 †	2 M	n na star star star star star star star sta	99
11.	26 JANUARY,	1978: LOC Nº 11.				
4026.	Berberio		**	١٣	8, 800 m to	Alpher limit of vesticial partie
4027,		(Onsgracese)	1)	₩,	3.500 m	cleared cloud forest interseradur
4028.		(Stidaceae)	24	**	4	. Eleared cloud forest intergradue with grass paramo.
4029,			84	44	u	
4030,		(Sotanthereas)	14	*	to the second seco	*1
4031,		•	4	Ÿ	n	86
4-032,	Servecio		ч	••	u	**
4033,	Hypericum		*1	•*	u	
4034,	▼ *	(Solanaceae)	le,	44		*1
4035,		~	n	54	u	**
4036.	Solanum.		4	50	ti	**

NOTES .

below 1s in

Yellow flowers. Greenish flowers.

White

rtially ling

Change flowers. Not in flower ; 15 cm. Scarlet flowers Yellow flowers. Yellow flowers. R.m.; Pole yellow flo_; black finito linke; prostrate

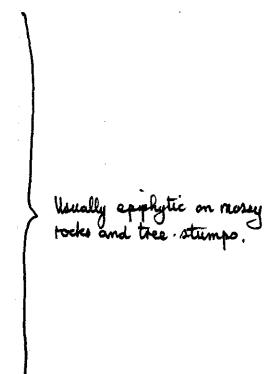
4037.			Jolima	Nevado del Ruiz	2,800-	(Atostinia) Antially of rad also
4038.		(Compositae)	Ly	massif, ESE	3,500m.	Steatigial, partially cleared closed forest, intergrading with gross p
4039.	Bignoniaceae		24	of Manizales		· form, multiplaining with grass p
4040.	Bomaraea		49	- I		~
4041.					24	24
4042.			**		13	
4043.	Calceolasia		**			11
4044	Iuchsia		ŧ;	·	n n	89
4045.	Rubus		·			ty.
4.046.	Oxalis		<u>*</u>		, ,,	4
4047.		(Encocese)	17		**	hy .
4048.	Geranium	(chuiced)	89		4	21
4049.	Acumany	(Epicaceae)	8 8 -		*g	80
4050.	Oxalis	(criticeae)	*		t e	••
4051		(Encaceae)	2)		44	11
4052.	Pernettya	γ	<i>4</i> ¥		40	+e
4053.		\geq " \langle "			11	10
4054	P. +	\sim	11		e 1	**
4 055.	Pernettya	(° ").)	11			· ••
4056.	Ø		34		te	**
4057,	luya		**		.,	9. B
		(Pteridophyta)	**		t .	**
4058		\$ \$	tt		te.	44
4059.		11	74		*1	te te
4060.		, 9	5 9 B		22	₹
4061.		1,	\$ \$		48	•
4062.		1 1 · ·	tų.		89	14
4063.		19	14		te	. NJ
4064.		ti	19	:	۲۴	
4065.	1 	11	44		4	11
4066,		b	_ 1 9		4	e 64
4067		43	4		~ 4	. t
4068.		n.	E 4		6	8,
					-	



Cimiber ~ Gren & yellow fls.; prike calyces. Uranged red fls .; climber

Yellow; climber; 2m. Rinke; 6 cm.; epiphyte Pink. Jellow.

Yellow



1.		8 : Loc. Nº 17				
4069. 4070		(Eteridophyta)	- Frild dista	as previous page		
	Chusquea					
R.						
4071.	27 JANUARY, 197	3 : LOC. №12.	Itima	Nevado del Rujy	3,500 ~	
			11	massif; ESE of	4,500 m.	Gress paramo & story areas
4071			**	Manyales	1,	
4072.		(Compositãe)	11	т. 41	۰,	34
4073.			ŧş	4	4 1	41
4074.		(Compositae)	78	<i>P</i>	ng -	14
4075.	Castilleia		94.	<u>At</u>	j be	t)
4076.	Gentiana		**	84		
4077.	Espeletia		•	**		Espeletia . 'peramo '~ exposed slopes.
4078.	Lupinus		P.1	24	11 12 12 12 12 12 12 12 12 12 12 12 12 1	
4079.	8	(Compositae)	4	••	1	11
4080	Pernettya	(Ericoceae)	h	."	1	ţı
4081	N	(Compositae)	**	t e	ty	1.
4082.	Gentiana	• •	4	4	l)	U U
4083	.		11	**	h	1.
4084.	Altersteinia leucantha		8 4	19	81	1) 1)
		(Orchidaceae)	**	14	31	1,
3.	28 JANUARY, 1978	, : Loc. № 13.				
4085.	Gunneta		dolima	WSW of Stresno	3,000 m.	Steep slopes covered with primary,
4086.	Bomataea		11	44	1.	Steep slopes covered with premainy. montane cloud forest.
4087.			**	w	31	1)
4088.			11	"	L F	11
4089.		Orchidarese).	**	6	۱r.	**
4090.		(Ethiceae)	48	*3	Le 1	**
4091.	Pernettys	(Stricese)	14	**	te	42
4092	Begonia	-				

Scarlet; in moss on boulders. Europle ray florets; 40 cm. 6 Cream ray florets; 40 cm. Hellow, green & scarlet; 15cm. Pale Alue; 10cm.

Blue & white fls.; 7-15 cm. Yellow; mat forming. 5 cm Lilac fruits; prestrate Yellow disc florets; 10 cm. Prostrate; bright blue.

Grey. white .

Moist rocky places. Scarlet & stange fle .; scandert.

Purple fls.

Crimson. fls.

4093	Pages .	Cundinamatca	Paramo Guerrero	c. 3,000 m.	Exposed gravely slopes, among
4094	Victudacese		above Lipaquita	1	grass
4095	Unhidaceae	n	N 1		V .,
4096		ŧ.	h	4.a. 4.	41
4097			83		۰,
4098	Indaceae	10	€	.,	,,
4099	Gaultheria	tı -	41		

Pale Alue & green fls. 2 m.

ng Issue

Shul Shrub Shrub Not. in fl. 500. Black fruits ; spreading shrubs to 200