JCA

Trip No 6 Spain 29th May - 12th June 1970 JCA3400 - 3575

Lyn Weeks accompanied Jim on this trip.

These field notes had water damage to some of the pages which blurred some of the scanned image. The original can still be read so if anyone cannot make out any particular word or section then contact me and I will check what you want on the original. David Stephens

l	29 MAY, 1970	ROVINCE	LOCALITY	ALTITUDE	HABRAT
34.00.	Orchis monior L.	Madud	Sierra de Gundastoma Ruerto de Somosierra	1500 m.	Upon posture; heavy, clay loam
	30 MAY, 1970				
3401.*	Jenerum	Jaen	(Sieita Morena)	1020 m.	S.E facing slopes in stony clay.
3402*	(dabiatae)	**	Evertor de	**	
34 03*	(Compositae)	**	(Despeñapettos)	20	.
3404*	Ruta	**		**	*
34 05.*	Jasione	40	**	: 41	Pi
3406*	Lavandula stoechas L.	*	••	• •	4
3407.*	Linum suffriticosum L.	-#	••	••••••	••
3408.*	Helichoysum	••		**	
3409*	Disnethus crassipes R. de Roem.	.,		♦● :	n
3410.**	Stipa	** **	••	61	^1
				4. #	
3411.*	Unonis fruticosa L.	Jaen	(Siena Magina)	1000 m.	Wfacing slope; stony clay.
34 IR.*	Genista		fletween Cambel f	200 12	
3413*	Cytisus	**	(& Huelma)		19
	Linum suffruticosum L.	* 9	L.		90
	Lithospermum friticosum L.	•4	•		٠.
				*	
	1 JUNE , 1970			я	
				ŧ.	
3414*	Violanche	Granada	(Sietta Nerada)	1500m	Dry, S.W facing slope ; story clay.
3415*	Digitalis obseura h.	~ "	fabove Genil		
3416*	allum		(Valley)	•	Among Juncus; major of stream.
3417.	Dipoadi setotinum Much.	**		1700 m	Among Juncus; mayon of stream. Open N.W. facing slope; stony clay.
3418.	Orchis corriophora L.	96	*		
.3419.	Paeonia brotesoi Bois & Rest.	4	•	-	· ~ often anen scrub
3420A	Hellebous fortidus L.	•,	**	•	1 ()
3420B.	Gladiolus		04 .	41	18
3420 C.	Øsnithogelum.	ti .	**	44	14

COMMENTS. Keddich pupple Mauve ; should to to Gream; shulps to 50cm Pale yellow Blue ; very variable ; 5-250 Ruple flowers & bracto. Geom and unfilte Bright yellow Bright - pink About 2 m. ligh. Punk and white covella; 60-100 Jellow; 4.5 cm. Yellow ; 2 m. Aigh .. Geam. Bright the. elay. Brownsh

Applient orange; to 1 m. Righ Pinte; 60 cm. high Greenish brown. Pink & reddich ; variable ; mins my actual Deap pink with pales adae. Green ; fur, furly large flowers. Pinta Uthite.

		Granada	(Siene Minite)	4700 m.	Upen slope	• ; story clay am
3481	Uplays sadapase Car.	4	above Gene	le le		9 9
3482	Apply later Car.	· 🖬	Villap ?!!	H4		€ € 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
3443	Onthencum Schager L. var. basticum (Steed) Batter	· •	•	¥1800 m.	N. & E. for	ng cliffe; in rock fis
	Soxifraga erioblasta Boiss & Reut.	: 11	54	41 5.2	·.	10
3424 3440	Seduni	ананан 1997 - Саланан 1997 - Саланан	- 89	10		14
3486.	Draba hispanica Boiss.	4	T #	16		•
3427.	Ermaces anthyllis Link.	41	47 ·	2000 m.	Bry, exposed	slopes; stony cle
3428.	Julipa celsiana Redute.	41	\$ 4	D se	:	9t
3429*	Unthyllis tejedensis Boiss.	35	••	4 #	Rock fissur	es on expand than
3430.*	Unosma	1.		\$\$	r.∉ ■	tt . Next : .
3431.	Colchicum triphyllum Kunth.	ta	(Siem Nevada.)	2250 m.	Where gulley or	. W-facing stope; m
3438.	Crocus off. midiflorus	44	upper Monochil	4		4
3433.	Gagea hispanica	\$0	(Ibilley.)	61 ····		**
3434.	Viola	58	11	ii		N
3435*	Echium	••		**************************************	:	4
 	2 JUNE, 1970		1 - 1 A. • - 1 - 1 • - 1			
3436*	Saxifraga	· ••	(Sierra Navada.)	2,500 m.	Sxposed, N.,	N.E. & N.W. facing
3437*	Draba Bisentella glacialis (Bais & Real) Joint.	**	wound Albergue ?		(thin story clays	on mica-schiste & s
3438.*	Draba hispanica Bois.	*	(Hoya de ta Mora)			81
3439*	Viola	•	•	•		ŧg
3440.		N.	*			.,
3441	Dianthas Hachyanthus Bois.	A	81	**		74
3442.	Erodium	20.	*			•
344 3.	Asenaria tetraquetre L. var. guendensis Bois.	'n		♥	2	1
3444.						
3445,						
3446.						
3447.						
3448.						
3449						
-						

ory nexult mites y Danselytufted ; white or protogin Maure-pink ; annual °y . Dense tufts ; bright yellour. Pale yellour lder Treng

Whitish ; pink filaments



sloper, White ; in shade below rocks Abites. J. Yellow; open scree Hellow; open scree & crevices Pale yellow.

Not in flower.

		Georada	(Seeina Nevada)	2,500 m. Support	N., N.E. & N.Wfacing slope
\$450#	Mapi mudence Bous. & Reit.	*	f around Allionac }		eys on mica - shists & states
3451.*	milyllis milnerana L. subsp. attomtis End. & Mare		(Hoya de la Mora)	14. 	ta
345a#	Enatia Entrata	"	*	4	ng (
	Raminculus acetosellifolius Boiss.	4	ve	w	**
3484.*	(grammeae)	۷	**	10 a	61
3455.*	(Grammere)	ŧ1	••	11	e1
3 456*	(Chicifetae)	41	*	NF 1 ::	u
3457.*	Erysimum myriophyllum Lange	**	16	36	N
3458.*	Euphorbie	47	**	68	" cammy boulder.
3459*	Ptilotrichum purpureum (dag & Kodi.) Boiss	••	*	N • 10	
3460*	Janketum radicans	18	*	*#	•
3461*	Futillatia hispanica Bois. & Keut.	**	*	15	" in price,
3462	Potentilla		•	**	44
3463	Polygala bossiesi Coss.	15		a,)	
3464.	Vella spinosa	**	as for	3426 2 3427.	
3465	Erinacea anthyllis Link.	14	Ŧ		

3 JUNE, 1970.

3466*	Junipetus	45	(Suna Nevada)	2,600 m	Exposed slopes; stony elays.
346 ?.*	(Cupterstaceae).	18	below Veleta S	- - -	14
3468*	Vitaliana primuliflora Bert.	35	.~ •∳ ^{i⊄}	گر	4
3469.	Erodum	**	•		st
3470.*	Viola crassinscula Borg	t y	Sietta Retoda	🗰 Artan ta	••
3471.*	Androsace vandellie (Tuna) Chovenda	••	Ceñones de S. Atran.	500 m.	N.W. facing schiotose cliffs ; m from eo Open . drysch , N.W. frang slope.
3472*	Fitellaria Inspanica Boss. & Rent.		S. Nevada. " slopes below	2,400m.	Open . drysch , N.W friging slope.
3473.	Crocus nevadensis Uno & Campo.	**	Ceñones de S 7 minoso	44 AB	
3474*	(Populionaceae)	89	(Sierra Revade) upper Monackil	2,200%.	Mout clay by stream ; among grosses.
3475*	(Pup chonaccare)	88	Valley below Albergue de	e **	*
3476*	Rominculus	**	(Education)		
3477*	Viola	10	•		ن ه ش
3478*	Centrusea	14	•	*	Grassy, story areas by stream ~ drier positions
3479*	Primula elation/LYHU. Lofthousei	4		₩ 2	Grassy, story areas by stream ~ drier positions Wet fluck ; among Juncus, stc.

slope. 10

Very polo muse control Bright red ; prostration Lemon - yellour; prostate. White or pink tinted, numerou

fellour; not common. Temon · yellout. Soulder. Brownich - green roylet leaves. Manne-purke. Sulphur yellow. Green & marcon; local.

lones-purple black; prostrate Prostrate. Bright yellow; very local Mause-puple; at snowline White ; very local . System and matoon.

Bhuh-violet; 25 cm. Redduch - punk ; 8 and Bright yellow. Violet-puple. Pupple-blue. Reep yellow; extremely local.

	· · · · · · · · · · · · · · · · · · ·	Gianada	Suppor Menochil Vally, below	2,200 m.	tilet. fluck on W. facing slope; anong
	Martinen Meredensis Pugeley	••	Wally, below >	. 5 0-	24
	Mennitera montana (L) Lunge	+6	Albergue titierten de Zolucación	14	Dry, story clay on W. facing al
	. Inlipe celsiana Red.	**	(de zanding m)	99	**
	4 JUNE, 1970.			· ·	
3483*	Helianthemum	91	(S.W. of Puetto) de la Mora	1.300 m.	Exposed & facing slope; story
3484.*	Thynus	9 7	(de la Mora)	#3	10
3415.	Aphyllanthes monopeliensis L.	e 1	16 9-8	0 ţ · ·	• •
3486*	Allymus cephalotus L.	4	Las alpujattas. W. of Janjaton		W. facing slope; red gronite (?)
	5 JUNE, 1970.		 8 :		
3487.**	Imatia	10	(Siessa Neveda.)	1,800 m	E. foring shale cliffs above Bay
3488.*	Sarcocapros crassifolia (Desf.)DC	r	Ruesto de la Ragua,	19	. ?
3489.*	Semular	b .	between Laroles	m 000,S	Open, gently sloping summit of
3490.**	Dianthus subacaulis Vill Juby brachyanthus	*1	between Lawles &		
3491.*	Dianthus subacaulis Vill July brachyanthus (Baris) P. Hoam.	v		1,800 m.	Exposeds, dryish, W. facing a
	7 JUNE, 1970	:			
3498.	diritillaria	Joen	(Suna dellayo)	1,500m.	- as fort 3495/6.
3493.	Viola cayotlensis fund.	54	between Cañada	1.30% m.	Intestone crevices; usually stades
3494.	Sanifraga rigoi Porta	**	de las Frientes	•	Frontes on vertical cliff; lumenton
3495	Crocus off. salymanni J: Goy	. S r	and Callinary	1,500 m.	House on vertical cliff, limeston Open, level col.; in terf, heavy c
3496.	Mesendera montana (L.) Lange	64		1,500 m.	
3497.*	Polygola boissieri Coss.	٩ÿ	*	1,300m	Upon . W facing stopes ; story ch
3498	Inum		#	4g	
3499.*	Inum	Ũ	•		**
3500*		¥	(Seena del Pozo)	1,200m.	S.E. & S.W. Joing slopes; lineetone
3501.*	Exysimum linifolium (Les.) Goy suber. cayorlense Heywood.	11	N. of Cañaida	••	₩ ₩ .
3502*	Imaria de la companya	ty ((de las Fitentes)	**	Shaded, limestone exercises on clif
		•1	# *		

Juneus Extremely los lope.

Yellow segments ; reten more

clay

Yellow. Puskieh videt; calgor pusk tinter Blue; widespread Carmine. punk corolla; Red bracto; very local but numerous

arit

Chestrut brown valley. White Yellour. pars. Pink. Pink . alope.

Bright punk e; shaded : White ; dense tufts ; local. clay . Bright reddich. pink. g White, prostrate. Deep blue. e scree Pinkish purple. White. Maure ; yellow lip. f.

Sulla	Joen	N. of Cañada de las Fuentes	Sieme del Payor 1,200 m.	Broad ledges on hinestone cliff
Unithogalum	**	n	u	99
atris xiphium 1.	**	N	w	Clearings in light woodland; info
Geranium cataractarum Coss.	n	*4	N	Cleanings in light woodland; info Studed, N: facing limestone cliffs
(Senophulanaceo	u)	t.	83	
Saporaria	7; ••	4	a.	Sunny, roadside bank ; story clay
Campmula	4	43	af.	~\ +\
Viola cayotlensis Gandget	•	n	ų	N., N.E, & N.W. facing limestre fis
Dipcadi serotinum Moend.	10	ગ	45	N., N.E, & N.W. facing limestre fis Open. W. facing slope; very stray
Narcissus hedracarithus	**	*	٩t	
Crocus	*1	٦	# !	
Sulla	t +	**	51	
Cephalanthera	**	55	50 50	•
Narassus	**	**	58	Pine-needle Aurnus in woodland.
8 JUNE 1970.				
Sulla	274 1	(Sena del Poro:)	1300	Fusures on N. facing . Innectone cli
Sarcocapros bastica (Brissheut) Ayour	55		514 A 181	
Narcusus	*	(de San Pedro)	•	u
Crocus			50	
(Vichidaces	e) "	(Siena delloyos)	1200 m.	Steep, lightly wooded, limestone sho
(Vrchidacea (Prchidacea	e) "	TN.W. of ta Nava ?	. k	· · · ·
Natcissus longispathus Pugsley.	10 III	(de Sans Rédion)	•	10
Nature 1	¥	, 1	**	*•
Orchis	49 *	. *	**	10
Lonicera implexa Uit.	18	89	16	**
Etimacea onthyllis Link.	۰.	**	* ;	গ
Hypencum ericoides L.	.*		43	Shady fusives on N. facing sloping lines
Paernia brotessi	76	4.		Shady fusives on N. facing sloping lines se

liffs infrequent; Mause - blue Bright reddich-purke. Maure-pinke. þ Bright printe Pole Whe , clay Bright pink fissures ing chay

e cliffo White ; with Germanin cotunder slopes Very rase - in pocket on hand Pale yellow. Blue. they saven slabs.

ME, 1970.

3530.

filitularia.

{beloor Manch } castle at ita drueba

Jeen

Day ledges on W. - facing cliffs.

ł	Janacetun	**	Sieria de	1500 m	Limentone detritus on exposed ridge
k	Etodum dancordes Bonis (2. Carotanum) Helioathemum	w	Cayotla	NP -	
	Helionthemum Heywood	**	Summit raise between Sacajo	is.	*
4	Convoluelus retidus Bois.	- 91 	and Plack Redondo	98. ·	\$¢
F.	Viola cazotlensio Gendoger		atore Cazotla		98
F	Alveris printie Im. (d. lagascana DC)	\$9	4		· • • • • • • • • • • • • • • • • • • •
¥-	amena	۹,	te	44	8+
	Imatia	••	•	41	F \$
¥.	Enzier mynophyllium Lange. (Scrophulasiaciez)	11	14	ja	**
ĸ	(Screphulascaciene)	1e		4. 11	8,
¥	Minuartia	43	* * *	e 61	7.
*	alyssum nortanum L.	18	•	•1	••
¥	Urchio (Dactylorkiza) elata	t)	Sienn de ?	1000	Wet ditdes and streamsedes; heavy chay
			(stuente del Uso)		
	Himantoglossum		1 · · · · · · · · · · · · · · · · · · ·		
	Urchis		9 <i>1</i>		
	Polygala boissieri - numerous in all localities ~ wideopread		**		
			~يۇ		
	Globulasia spinosa - undeepsead in all boolities; polymophi		•		
	-		**		
			yH		
			At		
			*		
	10 JUNE , 1970		M. of Emplace		

Lathyrus latifolius L.

3544.*

de beas.

1000 m.

Light woodland .

Soft yellow. Marve - u-hite. White; pink tinted Bright punke . White or violet tinted White . Maroon brown. Hellour. Maure. White Pale yellour. Puplish red.

y chay

Bright cammine pink .

10 JUNE 1970

3545* 3546. 3547.* 3548.* 3549.* 3550.* 3551.	Datylorhija elata Globulana spinosa L. Sanocapnos baetica (BoissbeReut.) Nyman. Aquilegia vulgaris L. hiepanica Willk. Polygala boissieri Coss. Thymus	Allbocete " " "	Siena de Alcaray. Rio Mundo Valley	t≠ 1100 m 1400 m. 1000 m. "	Utet roadside chitches; heavy clay among g Lineatone crevices. N & N.W. facing fuines on lineatre pi Moist bank among grosses; shady. W. facing slope; stony clay. Bxposed, and slopes.
3552. 3553. 3554	Thymus	95 93 75	(Pueste do Saso) (S.W. of Hellin)	600 m.	· · · · · · · · · · · · · · · · · · ·
	<u>II JUNE, 1970</u> Hypericum eticoides L. <u>IR JUNE, 1970</u>	Valencia	Scenn de Maquera. above Monarterij of Portaceeli	500 m	Aussires on sloping, shaded limest slob
3555. 3556.	Erochum rupestre (Pour) Guitt. (E. Supracanum L'Her.)		Montenat,	1,200 m.	Exposed holge ; mountain detritus Rock fussures.
3557. 3558. 3559. 3560	Globularia Fritillaria Narcissus Liluin pyrenaicum Govan.	17 71 39 36		49 14 14 14	E. forang shope ; scree over chay. Woodland ; heavy clay.
3561. 3562.* 3563.* 3564. 3565. 35 66 .	Hepatica nobilis Mill. Sarcocapnes enneaphylla (L.)DC. Globularia nana Saxifraga callosa Sm. subp. catelaunica (Boiis) D.A. Webb Ramonda, myconii (L.) Reicht. Muscari	97 93 99 99 99 99 99 79		45 49 49 49 59	Expored ogglomerate cliffs. "

3575 Crows rudiflotus

grasses. Reddish. purple; occasionally whit Pale blue purade White Purple Bright pink Reddich violet y. estore als. Pale pinte White; few tigts on summit Blue; prostrate; mat-forming White. de ge