

Birds, Animals, Amphibians and Reptiles of Tien Shan in April 2012		Kapchagay, Ili Canyon	Taldibulak	Kuyuk, Karasay, Berkara	Kum-Burul, Akkol Lake	Kshi-Kaindy valley	Ters Lake, Koksay Canyon	Aksu Canyon	Jabagly - Merke	Korday Pass, Almaty	Alkyn Emel pass, Charyn valley	Ketmen mts. and Alasa pass	Kaskelen
		Apr15	Apr16	Apr17	Apr18	Apr19	Apr20	Apr21	Apr22	Apr23	Apr24	Apr25	Apr26
Day:		1	2	3	4	5	6	7	8	9	10	11	12
Little Grebe	<i>Podiceps ruficollis</i>						2			2			
Great Crested Grebe	<i>P. cristatus</i>				2				2	+			
Grey Heron	<i>Ardea cinerea</i>						2						
Ruddy Shelduck	<i>Tadorna ferruginea</i>				2		++			2	2		2
Mallard	<i>Anas platyrhynchos</i>						+						
Gadwall	<i>A. strepera</i>				2								
Garganey	<i>A. querquedula</i>				3		+				3		
Northern Shoveller	<i>A. clypeata</i>						+				5		
Black-eared Kite	<i>Milvus lineatus</i>									1	2	5	
Montagu's Harrier	<i>C. pygargus</i>				2	1	1		1		1		
Marsh Harrier	<i>C. aeruginosus</i>					1	3	1					
Northern Sparrowhawk	<i>A. nisus</i>		1	1	1		1	1					

Long-legged Buzzard	<i>Buteo rufinus</i>	1			2	1	1	1	1		1	
Eurasian Buzzard	<i>B. buteo</i>	2		1								1
Booted Eagle	<i>Hieraaetus pennatus</i>				2							
Steppe Eagle	<i>Aquila rapax</i>					5			1			
Imperial Eagle	<i>A. heliaca</i>					1						
Golden Eagle	<i>A. chrysaetus</i>				1							
Egyptian Vulture	<i>Neophron percnopterus</i>			1				5				
	<i>Aegyptius monachus</i>			1	1	1						1
Black Vulture												
Himalayan Vulture	<i>Gyps himalayensis</i>											3
Saker Falcon	<i>Falco cherrug</i>							1				
Lesser Kestrel	<i>F. naumanni</i>					+						+
Common Kestrel	<i>F. tinnunculus</i>	+		+	+	4	+	4	8	4	4	1
Chuckar Partridge	<i>Alectoris chukar</i>	2		2		2	2		1		2	2
Grey Partridge	<i>Perdix perdix</i>							2				
Common Pheasant	<i>Phasianus colchicus</i>	2			1	2					2	2
Demoiselle Crane	<i>Anthropoides vigro</i>	++		+++	+++		+++					
	<i>Gallinula chloropus</i>											
Moorhen		1										
Coot	<i>Fulica atra</i>				4		4			5		
Little Bustard	<i>Tetrax tetrax</i>				1		5					
Little Ringed Plover	<i>C. dubius</i>										2	
Northern Lapwing	<i>Vanellus vanellus</i>				2							1
Black-winged	<i>Himantopus</i>											2

Stilt	<i>himantopus</i>												
Green Sandpiper	<i>Tringa ochropus</i>		1	1			1				1		
Common Redshank	<i>T. totanus</i>						5				1		
Common Sandpiper	<i>Actitis hypoleucos</i>	1					5	1		+		1	
Common Snipe	<i>Gallinago gallinago</i>						5						
Whimbrel	<i>N. phaeopus</i>				2								
Black-tailed Godwit	<i>Limosa limosa</i>						3						
Common Pratincole	<i>Glareola pratincola</i>						3						
Black-headed Gull	<i>L. ridibundus</i>	1			2					2			
Caspian Gull	<i>L. cachinnans</i>				5		5						
	<i>Hydroprogne caspia</i>												
Caspian Tern					1								
Common Tern	<i>Sterna hirundo</i>				2				+	+			
	<i>Columba palumbus</i>		1	4	2	2	2	2	2	1	1	2	2
Woodpigeon													
Rock Dove	<i>C. livia</i>	++	+	+	+	+	++	+	+	+	+	+	+
Collared Dove	<i>Streptopelia decaocto</i>		1	4	4	4	4	2	2	2	2	2	
Rufous Turtle Dove	<i>S. orientalis</i>						2						
Laughing Dove	<i>S. senegalensis</i>		1	2	2	4	4	2	2				
Short-eared Owl	<i>Asio flammeus</i>							1					
Eurasian Scops Owl	<i>Otus scops</i>				1	1		1	3	1	2	1	
Hoopoe	<i>Upupa epops</i>	1			1					1		1	
White-winged Woodpecker	<i>Dendrocopus leucopterus</i>				1	1	1	1	1	2	2		

Sand Martin	<i>Riparia riparia</i>				2								
Barn Swallow	<i>Hirundo rustica</i>	1	1	2	+	2	+	+	+	+	+	+	2
Red-rumped Swallow	<i>H. daurica</i>	2						3					
House Martin	<i>Delichon urbica</i>	+										+	
Crested Lark	<i>Galerida cristata</i>				1							4	
Lesser Short-toed Lark	<i>C. rufescens</i>				+								
Calandra Lark	<i>Melanocorypha calandra</i>	2		2	+		+	4				+	
Skylark	<i>Alauda arvensis</i>	1		1	1		+	2					
Tawny Pipit	<i>Antus campestris</i>						6	2					
Water Pipit	<i>Antus spinoletta</i>											1	1
Sykes's Wagtail	<i>Motacilla flava beema</i>		2		+		4				+		
Black-headed Wagtail	<i>M. feldegg</i>					2							
Grey Wagtail	<i>M. cinerea</i>		1				4	1	2				
White Wagtail	<i>M. alba</i>							2					
Masked Wagtail	<i>M. personata</i>	2	1	2	4	2	4	2	4	+	4	2	2
Turkestan Shrike	<i>Lanius phoenicuroides</i>	5		2			1						
Steppe Grey Shrike	<i>L. pallidirostris</i>	2											
European Starling	<i>Sturnus vulgaris</i>	4	4	+	+	+	+	+	+	+			
Common Myna	<i>Acridotheres tristis</i>		+	+	+	+	+	+	++	+		2	
Magpie	<i>Pica pica</i>	+	1	+	+	4	+	4	+	+	+	+	2
Alpine Chough	<i>P. glaculus</i>					50	+	4					2
Jackdaw	<i>Corvus monedula</i>			+	+		+		++	+	+	+	
Rook	<i>C. frugilegus</i>	+++		+	++		++	+	++	++	++	++	
Carrion Crow	<i>C. corone</i>			4	4	2	+	4	4	+	+		1

Hooded Crow	<i>Corvus cornix</i>				1								
Common Raven	<i>C. corax</i>			1	1		4						
Blyth`s Reed Warbler	<i>A. dumetorum</i>							1					
Sykes Warbler	<i>Hippolais rama</i>										1		
Chiffchaff	<i>Phylloscopus collybita</i>	1	1	1	2	1	2	1	1				
Hume's Warbler	<i>P. Inornatus humei</i>					1			1				
Siberian Stonechat	<i>S. torquata</i>						3				1	2	2
Northern Wheatear	<i>Oenanthe oenanthe</i>				1		+	2		3	3		
Pied Wheatear	<i>O. pleschanka</i>	1		4	2		+	2			2	2	
Desert Wheatear	<i>O. deserti</i>				1								
Isabelline Wheatear	<i>O. isabellina</i>	1		1	1			2			3	4	
Common Redstart	<i>Phoenicurus phoenicurus</i>						1						
Blue-headed Redstart	<i>Phoenicurus caerulecephalus</i>						1						
Blackbird	<i>T. merula</i>		2	4	2	6	2	2	2			2	2
Mistle Thrush	<i>T. viscivorus</i>					1	1						1
Blue Whistling Thrush	<i>Myiophoneus caeruleus</i>		1			2							
Long-tailed Tit	<i>Aegithalos caudatus</i>												4
Azure Tit	<i>P. cyanus</i>												2
Great Tit	<i>Parus major</i>	1									1	2	2
Turkestan Tit	<i>P. bokharensis</i>									1	1	1	
House Sparrow	<i>Passer domesticus</i>	1											

Indian Sparrow	<i>Passer indicus</i>								2			
Spanish Sparrow	<i>P. hispaniolensis</i>								nest			
Tree Sparrow	<i>P. montanus</i>						+					1
Chaffinch	<i>Fringilla coelebs</i>	1										
Brambling	<i>Fringilla montifringilla</i>	1										
	<i>Acanthis cannabina</i>						+					
Linnet	<i>Carpodacus erythrinus</i>											1
Common Rosefinch	<i>C. rhodochlamys</i>											
Red-mantled Rosefinch	<i>Coccothraustes coccothraustes</i>											
Hume`s Hawfinch	<i>Mycerobas carnipes</i>											
White-winged Grosbeak	<i>Emberiza calandra</i>							1	1			
Corn Bunting	<i>E. stewarti</i>								1			
White-capped Bunting	<i>E. cia</i>					4		1	1			1
Rock Bunting												

ANIMALS

Long-eared Hedgehog	<i>Erinaceus auritus</i>				skin								
Pipistrelle	<i>Pipistrellus pipistrellus</i>									2		2	
Large-toothed Suslik	<i>Spermophilus fulvus</i>	5			1					++			
Forest Dormouse	<i>Dryomys nitedula</i>		nest										
Severtzov's Jerboa	<i>Allactaga severtzovi</i>		hole				hole						
Great Gerbil	<i>Rhombomys opimus</i>										hole	2	
Brown Bear	<i>Ursus arctos</i>		dr			dr							
Wild Boar	<i>Sus scrofa</i>						dig		skin				
Ibex	<i>Capra sibirica</i>						6						

AMPHIBIANS and REPTILES

Central Asian Toad	<i>Bufo pewzovii</i>								1			1	
Marsh Frog	<i>Rana ridibunda</i>		2	2	+								1
Central Asian Tortoise	<i>Agrionemis horsfieldi</i>	4		1						1			
Glass Lizard	<i>Pseudopus apodus</i>		1										
Sand Lizard	<i>Lacerta agilis</i>											2	
Stepperunner	<i>Eremias arguta</i>			1		5							
Rapid Racerunner	<i>Eremias velox</i>	5			+							4	
Desert Lidless Skink	<i>Ablepharus deserti</i>			1									
Alpain Lidless Skink	<i>Asymblepharus alaicus</i>					2							1
Dione Snake	<i>Elaphe dione</i>		1			1							
Orsini's Viper	<i>Vipera ursinii</i>						1						
Halis's Viper	<i>Agkistrodon halis</i>					3							

BUTTERFLIES of TIEN-SHAN mountains, APRIL 2012		Kapchagay, Ili Canyon	Taldibulak	Kuyuk, Karasay, Berkara	Kum-Burul, Akkol Lake	Kshi-Kaindy valley	Ters Lake, Koksay Canyon	Aksu Canyon	Jabagly - Merke	Korday Pass, Almaty	Altyn Emel pass, Charyn valley	Kegen and Alasa pass	Kaskelen
		1	2	3	4	5	6	7	8	9	10	11	12
SPECIES	DAY:	1	2	3	4	5	6	7	8	9	10	11	12
	DATES	Apr 15	Apr 16	Apr 17	Apr 18	Apr 19	Apr 20	Apr 21	Apr 22	Apr 23	Apr 24	Apr 25	Apr 26
Swallowtail	<i>Papilionidae</i>												
	<i>Papilio machaon</i>	X		X	X		X	X	X		X		
Orange-Tip Brimstone Bath White Large White Small White Eastern Pale Clouded Yellow	<i>Pieridae</i>												
	<i>Anthrocharis cardamines</i>		X	X		X	X		X		X		X
	<i>Gonepteryx rhami</i>		X						X				X
	<i>Pontia daplidice</i>	X			X		X		X				
	<i>Pieris brassicae</i>		X	X									X
	<i>Pieris rapae</i>					X		X	X		X		X
	<i>Colias erate</i>	X									X		
	<i>Lycaenidae</i>												

Small Copper	<i>Lycaena phlaeas</i>						X						
Brown Argus	<i>Aricia agestis</i>										X		
Common Blue	<i>Polyommatus icarus</i>		X			X		X	X		X	X	X
Mazarine Blue	<i>Cyaniris semiargus</i>												X
<i>Nymphalidae</i>													
Queen of Spain Fritillary	<i>Issoria lathonia</i>												X
Spotted Fritillary	<i>sp?</i>											X	
Yellow-legged Tortoiseshell	<i>Nymphalis xanthomelas</i>		X			X	X		X		X		
Small Tortoiseshell	<i>Aglais urticae</i>					X		X	X		X	X	X
Peacock	<i>Inachis io</i>		X						X				
Painted Lady	<i>Cynthia cardui</i>											X	
<i>Libytheidae</i>													
Nettle-Tree Butterfly	<i>Libythea celtis</i>								X				
<i>Satyridae</i>													
Meadow Brown	<i>sp?</i>												X
Dalmatian Ringlet	<i>Erebia phegea</i>	X					X				X	X	

Spring Flowers of Tien Shan April 2012

		15 April	16 April	17 April	18 April	19 April	20 April	21 April	22 April	23 April	24 April	25 April	26 April
		Kapchagay, Ili Canyon	Taldibulak	Kuyuk, Karasay, Berkara	Kum-Burul, Akkol Lake	Kshi-Kaindy valley	Ters Lake, Koksay Canyon	Aksu Canyon	Jabagly - Merke	Korday Pass, Almaty	Altyn Emel pass, Charyn valley	Ketmen mts. and Alasa pass	Kaskelen
Day:		1	2	3	4	5	6	7	8	9	10	11	12
<u>EQUISETACEAE</u>													
Equisetum	arvense					x							
<u>POLYPODIACEAE</u>													
Ceterach	officinatum								x				
Asplenium	ruta-muraria							x					
Asplenium	septentrionale								x				
Cystopteris	fragilis		x	x		x			x				
<u>CUPRESSACEAE</u>													
Juniperus	pseudosabina												x
Juniperus	sabina						x					x	x
Juniperus	semiglobosa		x			x	x	x	x				
Juniperus	seravschanica					x		x					
Juniperus	sibirica												x
Juniperus	turkestanica		x			x							
<u>PINACEAE</u>													
Picea	schrenkiana												x

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
<u>EPHEDRACEAE</u>														
Ephedra	equisetina			x	x		x	x	x	x		x		
Ephedra	intermedia		x		x	x		x						
Ephedra	regeliana											x		
<u>ARACEAE</u>														
Arum	korolkovii			L	L					L				
<u>LILIACEAE</u>														
Colchicum	luteum						F							
Eremurus	altaica												L	L
Eremurus	cristatus		L							F		F		
Eremurus	inderiensis		B			L								
Eremurus	lactiflorus				F	F			F	F				
Eremurus	regeli			L			L							
Eremurus	robustus													L
Eremurus	tianschanicus							L						
Gagea	bulbifera									F				
Gagea	emarginata						F							
Gagea	filiformis			F			F	F				S	F	F
Gagea	minutiflora			F			F							
Gagea	ova		F			F								
Korolkovia	severzovii			F	F		F		F					
Rhinopetalum	karelinii		F			S								
Rhinopetalum	steantherum				S		F		F					
Scilla	puschkinioides								F					
Tulipa	alberti alberti		F											
Tulipa	alberti karatavica					F								
Tulipa	behmiana		F									F		
Tulipa	biflora (SP.?)											S		
Tulipa	bifloriformis			F	S					F				
Tulipa	binutans					S								
Tulipa	brachistemon											F		
Tulipa	buhseana		F									S		

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
Tulipa	dasystemon													F
Tulipa	greigii		F	F	F	F			F	F	F			
Tulipa	iliensis												F	
Tulipa	kaufmanniana		F	F			F	F	F					
Tulipa	kolpakowskianum									F	F	F	F	
Tulipa	lehmanniana				F									
Tulipa	orthopoda			S	S					S				
Tulipa	ostrowskiana										F			F
Tulipa	tetraphylla												F	
Tulipa	turkestanica			S			F	F	F					
Tulipa	zenaidae									F				
<u>ALLIACEAE</u>														
Allium	drobovii		L	L			L		L					
Allium	galantum												L	
Allium	inconspicuum				B									
Allium	karataviense			F	F				F	F				
Allium	pratensum	L			L									
<u>CONVALLARIACEAE</u>														
Polygonatum	sewerzowii		L						L					
<u>AMARYLLIDACEAE</u>														
Ixiolirion	tataricum									F		F		F
Ungernia	severtzovi						L		L					
<u>IRIDACEAE</u>														
Crocus	alatavicus		F	S			F		F			S		F
Iridodictyum	(Xiphium) kolpakovskianum						F							
Iris	alberti													F
Iris	pallasii iliensis												F	
Iris	ruthenica												L	
Iris	scariosa											F	F	
Iris	sogdiana		L						L				L	

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
Iris	songorica											B		
Iris	tenuifolia	F			F							S		
Iris	tienshanica							F					F	
Juno	kuschakewiczii												F	
Juno	orchiodes				S			F		F				
Juno	subdecolorata				S									
Juno	willmottiana (coerulea)			F	S	F			F					
<u>SALICACEAE</u>														
Populus	alba								x	x				x
Populus	diversifolia											x		
Populus	italicus	x	x	x	x			x	x	x	x	x	x	x
Populus	nigra	x	x	x	x			x	x	x	x	x	x	x
Populus	talassica							x					x	
Populus	tremola													x
Salix	alba		x	x				x	x	x	x	x	x	x
<u>BETULACEAE</u>														
Betula	pendula													x
Betula	talassica							x						
Betula	turkestanica					x								
<u>ULMACEAE</u>														
Celtis	caucasica			x					x	x				
Ulmus	pumila	x	x	x	x					x	x	x	x	x
<u>POLYGONACEAE</u>														
Calligonum	caput-medusae											F		
Rheum	maximowiczii		L	B	B				B	B	B			
Rheum	tataricum				B								B	
Rheum	witrockii													L
<u>CHENOPODIACEAE</u>														
Haloxylon	aphyllum											F		

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
Rhaphidophyton	regelii				x									
<u>CARYOPHYLACEAE</u>														
Cerastium	inflatum	F		F								F		
Holosteum	umbellatum				F							F		
Stellaria	media			F										
<u>RANUNCULACEAE</u>														
Adonis	tianschanica												F	
Anemone	almaatensis	F												
Anemone	petiolulosa		F		F	F	F	F	F					
Eranthis	longistipitata		F	S		S	S	S						
Ceratocephalus	orthoceros				S		F			S	S			
Clematis	orientalis												x	x
Ranunculus	alberti													F
Ranunculus	regelianus				F		F	F			F	F	F	F
Ranunculus	sp?													F
Thalictrum	isopyroides	F	F	F	F		F	F	F		F			
<u>BERBERIDACEAE</u>														
Gymnospermium	alberti		F			F		S	S					
Leontice	ewersmanii								F	F				
Berberis	oblonga							x						x
Berberis	iliensis												B	
<u>PAPAVERACEAE</u>														
Glaucium	squamigerum												F	
Hypecoum	parviflorum											F		
Papaver	pavoninum									F				
<u>PAEONIACEAE</u>														
Paeonia	hybrida													B

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
<u>FUMARIACEAE</u>														
Corydalis	glaucescens												F	F
Corydalis	ledebouriana		F	F		F		F	F					L
Corydalis	nudicaulis		F					F						
Corydalis	schanginii											S		
Corydalis	schanginii ainii			F										
Corydalis	sewerzowii			F										
<u>BRASSICACEAE</u>														
Allium	manginatum	F		F								F		
Barbarea	arcuata										F	F		
Cardaria	draba	F									F		F	F
Crambe	kotschyana			F						F			F	
Crambe	orientalis									F				
Hesperis	sp?												F	
Megacarpaea	orbiculata			F		F		F						
Parrya	sp.									F				
Strigosella	turkestanica				F									
<u>CRASSULACEAE</u>														
Orostachis	thyrsiflora												L	
Pseudosedum	longidentatum	L								L				
Pseudosedum	karatavicum					L		L						
Rosularia	alpestris											L		
Rosularia	turkestanica					L			L					
Sedum	alberti						L	L						
Sedum	ewersii												L	
Sedum	hybridum											L		
<u>SAXIFRAGACEAE</u>														
Saxifraga	albertii							B						
Saxifraga	sibirica								L					

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
<u>ROSACEAE</u>														
Alchemilla	sibirica													L
Alchemilla	retropilosa							L						
Amygdalus	communis		F				F							
Amygdalus	petunnikowii				F					F				
Armeniaca	vulgaris		F	F	F	F	F	F	F	F			F	F
Cerasus (Padellus)	mahaleb				F				F					
Cerasus	erythrocarpa	F												
Cerasus	tianschanica	F		F				F	F	F	F	F		F
Prunus	sogdiana			F	F					F				
Crataegus	songarica			x										
Crataegus	turkestanica			x										
Hulthemia	persica			F	F									
Malus	niedzwetziana			F										
Malus	sieversii		F	F			F		F	F				F
Potentilla	orientalis									F				
Potentilla	soongarica			F	F									F
Pyrus	regelii			F										
Sorbus	tianschanica													B
Spiraea	hypericifolia	F		F					F	F	F	F	F	F
Spiraea	pilosa													
<u>FABACEAE</u>														
Astragalus	andaulgensis							F						
Astragalus	atrovinosus				F			F		F				
Astragalus	sieversianus		S	L			F		F	F	F			F
Astragalus	ugamicus			F				F	F	F				
Caragana	arborescens			x										
Caragana	balkhashensis											F	F	
Caragana	camilli-schneideri													F
Caragana	kirghisorum			F	F									
Caragana	pleiophylla												F	
Halodendron	halimodendron												S	
Hedysarum	cephalotes											F		

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
Oxitropis	aulieatensis					F				F				
Oxitropis	bosculensis													F
Vicia	subvillosa		F			F			F			F		
<u>LINACEAE</u>														
Linum	pallescens											F		B
<u>GERANIACEAE</u>														
Erodium	cicutarium					F		F						
Erodium	hoefftianum											F		
Geranium	rotundifolium				L					L				
Geranium	transversale				F	F		F	F	F	F	F		F
<u>BIEBERSTEINIACEAE</u>														
Biebersteinia	multifida				F				F					
<u>ZYGOPHYLLACEAE</u>														
Peganum	harmala											x	x	
Zygophyllum	kegense												F	
<u>EUPHORBIACEAE</u>														
Euphorbia	helioscopia								F	F				
Euphorbia	jaxartica				L			F	F		F	F		
Euphorbia	rapulum		F			F					F			
Euphorbia	subcordata													F
Euphorbia	yaroslavii													F
<u>CELASTRACEAE</u>														
Euonymus	koopmannii			x			x							
Euonymus	semenovii									x				x
<u>ACERACEAE</u>														
Acer	negundo		x							x				x
Acer	semenovii				x				x	x				

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
<u>RHAMNACEAE</u>														
Rhamnus	cathartica		x						x	x				
<u>VITACEAE</u>														
Vitis	vinifera			x										
<u>MALVACEAE</u>														
Altea	nudiflora		L							S				
<u>HYPERICACEAE</u>														
Hypericum	scabrum		L						L					
<u>CISTACEAE</u>														
Helianthemum	songaricum												F	
<u>TAMARICACEAE</u>														
Myricaria	squamosa												F	
Tamarix	ramosissima			x	x							x	x	
<u>VIOLACEAE</u>														
Viola	acutifolia													F
Viola	collina		F				F	F	F	F				F
Viola	dissecta												F	
Viola	rupestris													F
Viola	suavis		F											F
<u>ELAEAGNACEAE</u>														
Hippophae	rhamnoides													x
Elaeagnus	oxycarpa										x	x	x	x
<u>UMBELLIFERAE</u>														
Ferula	palida											F		
Ferula	penninervis		L						L					
Ferula	tenuisecta		L	F	F					F	F			

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
Mediasia	macrophylla								L					
Prangos	pabularia			L										
Schrenkia	involucrata				L				L	L	F	F		
<u>PYROLACEAE</u>														
Pyrola	rotundifolia						L							
<u>PRIMULACEAE</u>														
Androsace	maxima												B	
Androsace	sericea												L	
Primula	kaufmanniana													F
<u>LIMONIACEAE</u>														
Acantholimon	albertii						x							
Goniolimon	speciosum											F		
<u>GENTIANACEAE</u>														
Gentiana	kaufmanniana												L	L
Gentiana	olivieri							L	L					
<u>CONVOLVULACEAE</u>														
Convolvulus	tragacanthoides												B	
<u>OLEACEAE</u>														
Fraxinus	potamophila			x								x	x	
<u>BORAGINACEAE</u>														
Onosma	irritans									F				
Nonea	caspiaca	F			F							F		
Rindera	echinata			F				F	F					
Rindera	oblongifolia					F			F					
Rindera	tetraspis (cyclodonta)	F			F						F	F		
Solenanthus	circinnatus		F	F					F	F				
Myosotis	micrantha				F			F						

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
<u>LAMIACEAE</u>														
Eremostachys	karatavica				L									
Phlomis	speciosa								F			F		F
Mentha	asiatica		L	L								L		
Ziziphora	bungeana			L					L	L				L
Ziziphora	tenuior									F				
<u>SCROPHULARIACEAE</u>														
Bunaea	vesiculifera			L										
Linaria	pedicellata											F		
Pedicularis	alberti									F				F
Pedicularis	karatavica							F					F	
Pedicularis	olgae		F				F							
Veronica	becabungana			L										
Veronica	verna									F		F		
<u>OROBANCHACEAE</u>														
Cistanche	flava											F		
Cistanche	salsa											F		
<u>CAPRIFOLIACEAE</u>														
Lonicera	altmannii													x
Lonicera	karatavica			x										
Lonicera	numirifolia			x										
Lonicera	semenovii												F	
Lonicera	tianschanica						F		F	F				
<u>VALERIANACEAE</u>														
Valeriana	chionophila	F	F					F						
Valerianella	turkestanica									F				
<u>ASTERACEAE</u>														
Achillea	filipendulina			L						L				
Achillea	millefolium		L											

		Day:	1	2	3	4	5	6	7	8	9	10	11	12
Inula	macrophylla				L									
Ligularia	macrophylla						L							L
Scorzonera	inconspicua					F								
Taraxacum	officinale	F	F	F	F				F	F			F	F
Tragapogon	marginifolius				F					F				
Tragapogon	ruber											F		
Tussilago	farfara		F				F	F						F

ABBREVIATION:

- F** - in flower
- B** - in buds
- L** - in leaves
- S** - in seeds
- x** - just recorded