item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
original ID	1	2	3	6	8	9	11	18	19	20	66	67	69	74	75	79	89	90	125	128	129	211	4	15	28	72	73	76	77	80	81	83	84	88	91	92	93	94	108	131	132	196	208
location																																											
area	MU	MU	MU	SU	SU	SU	MA	MA	MA	MA	MU	MU	MU	SU	SU	SU	MA	MA	CH	PS	PS	MA	MU	MA	PS	MU	MU	SU	SU	AK	AK	AK	SH	SH	MA	MA	MA	MA	MA	PS	PS	BG	BG
longitude (UTM easting)	413305	413247	413121	421319	421197	422014	400721	404625	404519	407049	411663	411581	410844	414705	419470	425295	406458	406338	415160	414345	412415	394260	413049	405162	406112	407104	407056	417509	416599	426339	435257	436829	435068	416172	406255	406178	405974	405811	405259	409341	407715	388019	377231
latitude (UTM northing)	4228068	4228697	4229293	4225618	4225948	4224409	4221383	4221472	4221786	4222006	4226812	4227252	4228540	4225807	4227571	4227220	4222336	4222446	4243915	4230079	4231047	4225460	4229513	4221017	4235215	4226215	4226121	4227383	4227911	4226812	4224830	4217600	4212586	4197286	4222446	4222477	4222860	4223477	4226409	4233377	4234225	4182340	4187904
environmental parameters																																											
altitude	3631	3638	3728	3631	3622	3668	3537	3553	3620	3568	3603	3608	3737	3590	3595	3635	3636	3644	3732	3682	3717	3840	3839	3547	3843	3832	3886	3598	3621	3635	3660	3782	3689	3905	3683	3693	3743	3810	3886	3782	3808	3957	3925
aspect	flat	s	s	n	nw	wnw	s	ssw	flat	sw	flat	flat	e	flat	flat	flat	e	e	flat	flat	flat	se	s	flat	flat	ne	ese	flat	flat	flat	flat	e	flat	flat	e	all	all	all	sse	flat	flat	flat	flat
slope	0	5	26	5	3	6	5	30	0	3	0	0	8	0	0	0	1	6	0	0	0	5	30	0	0	16	25	0	0	0	0	30	0	0	35	30	35	30	6	0	0	0	0
distance to isobath	1950	2460	1950	850	640	400	50	820	520	210	660	1050	2550	400	770	1180	350	390	530	1000	430	110	1730	170	0	1550	1460	0	560	1580	670	780	195	160	480	560	650	650	70	270	3280	210	0
distance to settlement	1600	2200	2650	1350	940	2700	1140	720	910	850	200	450	1700	1700	1350	4000	760	850	980	3130	1250	100	2950	880	1230	2080	2090	1240	1900	5000	####	####	7850	2900	870	910	1340	1960	3840	850	1300	5000	3660
soil parameters																																											
skeleton (%)	15.3	20.9	32.0	14.8	9.2	9.2	35.2	35.0	14.2	38.4	NA	NA	64.7	NA	42.6	21.4	10.3	16.8	NA	18.3	12.3	NA	32.0	57.3	50.8	20.9	43.4	65.7	43.0	0.5	31.3	47.9	76.9	16.9	32.2	42.5	42.0	56.5	41.2	24.0	28.8	NA	NA
sand (%)	66.7	79.4	89.9	72.1	88.4	30.3	70.1	98.9	82.6	59.9	NA	NA	67.3	NA	70.6	53.9	57.8	77.4	NA	86.8	42.8	NA	73.6	86.7	73.3	57.7	77.6	87.9	64.2	7.3	26.3	70.3	59.9	46.3	86.4	72.0	64.9	55.4	41.8	52.0	35.1	NA	NA
silt (%)	20.0	15.1	4.9	18.0	6.0	46.1	21.3	0.5	8.4	30.1	NA	NA	23.4	NA	10.8	25.2	19.2	9.2	NA	6.1	30.2	NA	18.3	10.6	19.8	21.1	14.6	9.5	15.2	62.0	46.7	14.9	26.5	26.5	10.0	16.0	21.0	16.3	43.7	29.0	41.6	NA	NA
clay (%)	13.3	5.5	5.2	9.9	5.6	23.6	8.6	0.6	9.0	10.0	NA	NA	9.3	NA	18.6	20.9	23.0	13.4	NA	7.1	27.0	NA	8.2	2.7	6.9	21.2	7.8	2.6	20.6	30.7	27.0	14.9	13.6	27.3	3.6	12.0	14.1	28.3	14.5	19.0	23.3	NA	NA
electric conductivity (mS)	2640	1508	82	106	84	4140	7140	74	97	203	NA	NA	98	NA	656	173	153	832	NA	2255	3475	NA	77	265	115	321	83	100	2800	3995	139	96	83	1389	104	169	86	882	905	215	983	NA	NA
cation exchange capacity (cmol/kg)	15.3	11.9	5.8	13.7	7.7	17.8	14.2	6.9	9.8	13.4	NA	NA	14.4	NA	11.6	13.8	8.1	7.6	NA	29.1	17.9	NA	10.5	25.8	11.0	13.9	11.6	9.0	17.7	27.7	14.5	13.5	12.2	17.3	7.1	12.9	13.3	17.7	17.6	32.7	20.2	NA	NA
pH	8.2	8.1	8.0	8.0	7.6	7.6	8.0	8.0	8.2	8.0	NA	NA	7.6	NA	7.7	7.9	7.6	7.6	NA	7.8	7.6	NA	7.9	8.1	7.7	7.6	6.6	7.4	7.7	7.9	7.5	7.5	7.6	7.9	7.6	7.8	7.7	7.4	6.8	7.6	8.0	NA	NA
nitrogen (%)	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.1	NA	NA	0.0	NA	0.0	0.0	0.0	0.0	NA	0.1	0.1	NA	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	NA	NA
ignition loss (%)	0.8	0.7	0.5	0.6	0.6	1.5	1.7	0.3	0.6	1.1	NA	NA	1.0	NA	1.2	0.3	3.9	3.5	NA	1.4	2.9	NA	0.7	0.5	0.9	1.3	1.2	0.7	1.4	2.5	1.0	1.0	0.9	2.0	50.0	0.0	1.2	13.5	1.6	1.2	1.8	NA	NA
organic carbonate (%)	0.0	0.2	0.0	0.0	0.3	0.2	0.0	0.3	0.4	0.0	NA	NA	0.3	NA	0.0	0.0	0.0	0.1	NA	0.1	0.3	NA	0.0	0.0	0.2	0.4	0.4	0.0	0.1	0.2	0.0	0.1	0.5	0.2	1.4	0.0	0.1	0.5	0.3	0.2	0.2	NA	NA
humus (%)	0.0	0.3	0.0	0.0	0.5	0.4	0.0	0.5	0.7	0.0	NA	NA	0.5	NA	0.0	0.0	0.0	0.2	NA	0.2	0.5	NA	0.0	0.0	0.4	0.7	0.6	0.0	0.2	0.4	0.1	0.1	0.9	0.4	2.5	0.0	0.3	0.8	0.6	0.3	0.4	NA	NA
C/N	0.0	41.6	0.7	0.0	25.7	2.0	0.0	27.1	5.1	0.0	NA	NA	12.7	NA	0.0	0.7	0.0	5.6	NA	1.0	3.0	NA	0.0	0.0	5.0	4.4	4.5	0.3	1.3	1.5	0.9	1.3	12.7	66.5	51.1	0.0	3.5	5.3	6.4	2.8	4.7	NA	NA
calcium carbonate (%)	22.5	14.8	20.9	27.7	32.2	17.2	35.9	18.1	24.4	12.6	NA	NA	5.3	NA	27.5	21.9	22.4	20.6	NA	16.9	13.7	NA	8.7	31.6	12.8	8.7	8.9	35.4	21.5	18.4	29.3	9.2	33.9	20.9	10.4	28.3	11.5	10.7	8.0	10.7	12.2	NA	NA
vegetation class	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	DSD	D

item	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
original ID	212	7	10	13	16	27	29	30	37	45	55	68	70	71	82	85	86	98	99	100	101	102	103	104	105	107	130	133	160	167	178	197
area	MA	SU	MA	MA	MA	PS	PS	PS	MA	CT	AL	MU	MU	MU	AK	SH	SH	GKM	GKM	GKM	GKM	GKM	GKM	GKM	MA	MA	PS	PS	GKP	CT	CT	BG
vegetation class	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD	DSD

item	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101
original ID	199	213	12	25	34	35	41	44	64	95	96	97	120	137	143	144	145	147	154	158	159	161	162	166	170	174
area	BG	MU	MA	PS	MA	MA	CT	CT	BG	GKM	GKM	GKM	AL	GKP	GKP	GKP	GKP	GKP	GKP	GKP	GKP	GKP	GKP	MZ	CT	CT
vegetation class	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT

item	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
original ID	177	185	26	31	33	39	40	43	46	49	87	126	134	157	165	169	171	172	190	198	200	201	204	205	206
area	CT	BG	PS	PS	GKP	NT	CT	CT	BG	BG	SH	PS	PS	GKP	MZ	CT	CT	CT	BG	BG	BG	BG	BG	BG	BG
vegetation class	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT

item	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149
original ID	21	47	50	58	111	113	116	118	119	121	122	124	173	180	195	207	22	51	52	56	60	65	192
area	AL	BG	BG	AL	AL	AL	AL	AL	AL	AL	AL	AL	CT	AL	BG	BG	AL	AL	AL	AL	BG	BG	BG
vegetation class	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW

item	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172
original ID	203	209	106	109	110	112	114	115	117	179	181	182	53	163	183	186	187	188	189	191	193	194	202
area	BG	BG	GKM	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	GKP	BG	BG	BG	BG	BG	BG	BG	BG	BG
vegetation class	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW	DCW

item	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193
original ID	5	14	17	23	24	32	36	38	42	48	54	57	59	61	62	63	123	135	168	176	210
area	MU	MA	MA	AL	CH	GKP	MA	NT	CT	BG	AL	AL	BG	BG	AL	MA	AL	PS	CT	CT	CT
vegetation class	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST

item	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212
original ID	136	138	141	142	148	151	155	156	184	164	140	150	139	153	149	146	152	175	78
area	GKP	GKP	GKP	GKP	GKP	GKP	GKP	GKP	BG	GKP	GKP	GKP	GKP	GKP	GKP	GKP	GKP	CT	SU
vegetation class	AM	AM	AM	AM	AM	AM	AM	AM	AM	RS	RS	RS	RS	RS	RS	RS	RS	RS	

grazing pressure: bite, tread, manure

vegetation class; total coverage (%); dwarf shrub coverage (%); herb/grass coverage (%); cushion coverage (%); dwarf shrub height (cm); herb/grass height (cm)

species abundance

species
Zygophyllum obliquum
Christolea crassifolia
Crepis flexuosa
Astragalus muschketowii
Oxytropis microphylla
Arnebia guttata
Dracocephalum heterophyllum
Arnebia euchroma
Artemisia rhodantha
Krascheninnikovia ceratoides
Artemisia rutifolia
Potentilla bifurca orientalis
Poa attenuata
Dracocephalum paulsenii
Hordeum brevisubulatum turkestanicum
Leymus secalinus
Oxytropis platonychia
Festuca rubra subsp. arctica
Artemisia leucotricha
Stipa orientalis
Xylanthemum pamiricum
Polygonum paronychioides
Minuartia biflora
Lindelofia stylosa
Elymus cf. jacquemontii
Carex stenophylla
Psychrogeton andryaloides
Cousinia cf. semidecurrens
Silene guntensis
Ephedra regeliana
Acantholimon pamiricum
Artemisia pamirica
Oxytropis poncinsii
Astragalus pamirensis
Taraxacum spec. (spring turf)
Oxytropis glabra
Poa pratensis
Calamagrostis pseudophragmites
Potentilla multifida
Gentiana prostrata
Kobresia capillifolia
Potentilla ornithopoda
Primula pamirica
Astragalus tibetanus
Bistorta vivipara
Knorringia pamirica
Glaux maritima
Kobresia myosuroides bistaminata
Saussurea salsa
Lloydia serotina
Leontopodium ochroleucum
Draba altaica
Smelowskia calycina
Silene himalayensis
Trisetum spicatum
Ranunculus spec. (spring turf)
Stellaria spec. (spring turf)
Saxifraga cernua
Aster flaccidus
Thalictrum alpinum
Taraxacum spec. (12c)
Koenigia islandica
Colpodium leucolepis
Cerastium cerastioides
Eutrema septigerum
Didymophysa fedtschenkoana
Dracocephalum stamineum
Saxifraga flagellaris
Nepeta longibracteata
Rhodiola pamiroalaica
Poa lipskyi
Tanacetum pyrethroides
Leiospora pamirica
Primula macrophylla
Corydalis fedtschenkoana
Saussurea glacialis
Stipa caucasica glareosa
Acantholimon diapensioides
Hedysarum minjanense
Potentilla pamirica
Carex pseudofoetida
Kobresia royleana
Carex melanantha
Primula algida
Pedicularis rhinanthoides
Saxifraga prorepens
Carex orbicularis
Ranunculus pulchellus
Oxytropis humifusa
Festuca spec. (1a)
Serratula procumbens
Gypsophila capituliflora
Neotorularia korolkowii
Trigonella spec.
Ajania fruticulosa
Piptatherum laterale
Linaria spec.
Taraxacum spec. (desert)
Stipa splendens
Salsola spec.
Ajania tibetica
Alopecurus mucronatus
Geranium regelii
Lappula barbata
Artemisia rupestris
Stellaria turkestanica
Oxytropis spec. (cushion)
Oxytropis densa
Allium carolinianum
Nepeta kokanica
Potentilla spec. (cushion)
Androsace flavescens
Triglochin maritima
Artemisia santolinifolia
Taraxacum spec. (8B5)
Poa alpina
Calamagrostis anthoxanthoides
Scrophularia cf. incisa

AK Aksu, AL Alichur, BG Bash Gumbez, CH Chechekty, CT Cheshtebe, GKM Gumbez Kol Madian, GKP Gumbez Kol Pshart, MA Madian, MZ Mamazair, MU Murghab, NT Neizatash, PS Pshart, SH Shorbulak, SU Subas
D deserts, DSD dwarf shrub deserts, DCT dwarf shrub cushion steppes (teresken-type), DCW dwarf shrub cushion steppes (wormwood-type), ST spring turfs, AM alpine mats, RS rocks and scree vegetation

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