

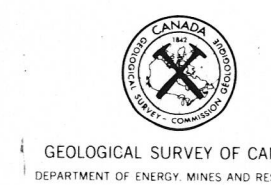


# SURFICIAL GEOLOGY AND GEOMORPHOLOGY NORTH-CENTRAL KEEWATIN

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## EXTENDED LEGEND

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GENESIS (Note A)	UNIT (Note A)	MATERIAL (Note B)	ORIGIN	THICKNESS (Note C)	TOPOGRAPHY	RELIEF (Note D)	SLOPE (Note E)	PERMEABILITY/DRAINAGE	ACTIVE LAYER THICKNESS (Note F)	GROUND ICE (Note G)	PATTERNED GROUND (Note H)	OCCURRENCE	ASSOCIATION (Note I)	VEGETATION (Note J)	COMMENTS
E	(s)Eb (s)Ev (s)E	Laminated, silty fine sand with medium sand forming some dunes. Coarse sand and larger material uncommon except as surface lag. Compact U.S.C.: SP.	Formed by eolian activity. Eolian processes have been active throughout postglacial time but should have been most active immediately after retreat of the ice, drainage of lakes, or recession of the sea. E deposits are stable and vegetated; E are active and unvegetated.	0.5 (0.3-2)	Reflects topography of underlying material. Dunes are low arcuate features of the blow-out type.	(0.1-2) (1-30)	D.U.M.	Permeability moderate to low. Deposits well drained. Dunes well drained but depressions between arms of dunes poorly drained and may contain pond. Drainage patterns not developed.	In all cases where measured, the base of the active layer was below the base of the eolian sediments.	Not applicable. See active layer thickness.	Periglacial patterned ground features not present in E areas. In E areas, the patterned ground features probably are a reflection of the underlying material. Striping was noted at one locality. Vegetation hummocks, ripple marks of various types, stoss-and-lee forms are generally present.	Deposits are thin and of small areal extent, but are common throughout area.	Commonly derived from I and A units with which it is most commonly associated.	*Large portions of E are unvegetated. Locally colonizing herbs occur (less than 20%). Species may include <i>Hieracium alpinum</i> , <i>Trientalis alpinum</i> , <i>Poa</i> sp., <i>Festuca brachyphylla</i> , <i>Agropyron boreale</i> , <i>Carex</i> sp., <i>Papaver lapponicum</i> , <i>Antennaria dioica</i> , <i>Artemisia maritima</i> , <i>Chamaenerion</i> sp., <i>Mosses</i> rare. Plants often adopt a tussock form. Well vegetated E-similar to adjacent stable material.	1. Present and past E units indicate westerly or northwesterly winds.
A	(s)Aa (s)Ab (s)Ac (s)Ad (s)Ae (s)Af (s)Ag (s)Ah (s)Ai (s)Aj (s)Ak (s)Al (s)Am (s)An (s)Ao (s)Ap (s)Aq (s)Ar (s)As (s)At (s)Au (s)Av (s)Aw (s)Ax (s)Ay (s)Az (s)Ba (s)Bb (s)Bc (s)Bd (s)Be (s)Bf (s)Bg (s)Bh (s)Bi (s)Bj (s)Bk (s)Bl (s)Bm (s)Bn (s)Bo (s)Bp (s)Bq (s)Br (s)Bs (s)Bt (s)Bu (s)Bv (s)Bw (s)Bx (s)By (s)Bz (s)Ca (s)Cb (s)Cc (s)Cd (s)Ce (s)Cf (s)Cg (s)Ch (s)Ci (s)Cj (s)Ck (s)Cl (s)Cm (s)Cn (s)Co (s)Cp (s)Cq (s)Cr (s)Cs (s)Ct (s)Cu (s)Cv (s)Cw (s)Cx (s)Cy (s)Cz (s)Da (s)Db (s)Dc (s)Dd (s)De (s)Df (s)Dg (s)Dh (s)Di (s)Dj (s)Dk (s)Dl (s)Dm (s)Dn (s)Do (s)Dp (s)Dq (s)Dr (s)Ds (s)Dt (s)Du (s)Dv (s)Dw (s)Dx (s)Dy (s)Dz (s)Ea (s)Eb (s)Ec (s)Ed (s)Ee (s)Ef (s)Eg (s)Eh (s)Ei (s)Ej (s)Ek (s)El (s)Em (s)En (s)Eo (s)Ep (s)Eq (s)Er (s)Es (s)Et (s)Eu (s)Ev (s)Ew (s)Ex (s)Ey (s)Ez (s)Fa (s)Fb (s)Fc (s)Fd (s)Fe (s)Ff (s)Fg (s)Fh (s)Fi (s)Fj (s)Fk (s)Fl (s)Fm (s)Fn (s)Fo (s)Fp (s)Fq (s)Fr (s)Fs (s)Ft (s)Fu (s)Fv (s)Fw (s)Fx (s)Fy (s)Fz (s)Ga (s)Gb (s)Gc (s)Gd (s)Ge (s)Gf (s)Gg (s)Gh (s)Gi (s)Gj (s)Gk (s)Gl (s)Gm (s)Gn (s)Go (s)Gp (s)Gq (s)Gr (s)Gs (s)Gt (s)Gu (s)Gv (s)Gw (s)Gx (s)Gy (s)Gz (s)Ha (s)Hb (s)Hc (s)Hd (s)He (s)Hf (s)Hg (s)Hh (s)Hi (s)Hj (s)Hk (s)Hl (s)Hm (s)Hn (s)Ho (s)Hp (s)Hq (s)Hr (s)Hs (s)Ht (s)Hu (s)Hv (s)Hw (s)Hx (s)Hy (s)Hz (s)Ia (s)Ib (s)Ic (s)Id (s)Ie (s)If (s)Ig (s)Ih (s)Ii (s)Ij (s)Ik (s)Il (s)Im (s)In (s)Io (s)Ip (s)Iq (s)Ir (s)Is (s)It (s)Iu (s)Iv (s)Iw (s)Ix (s)Iy (s)Iz (s)Ja (s)Jb (s)Jc (s)Jd (s)Je (s)Jf (s)Jg (s)Jh (s)Ji (s)Jj (s)Jk (s)Jl (s)Jm (s)Jn (s)Jo (s)Jp (s)Jq (s)Jr (s)Js (s)Jt (s)Ju (s)Jv (s)Jw (s)Jx (s)Jy (s)Jz (s)Ka (s)Kb (s)Kc (s)Kd (s)Ke (s)Kf (s)Kg (s)Kh (s)Ki (s)Kj (s)Kk (s)Kl (s)Km (s)Kn (s)Ko (s)Kp (s)Kq (s)Kr (s)Ks (s)Kt (s)Ku (s)Kv (s)Kw (s)Kx (s)Ky (s)Kz (s)La (s)Lb (s)Lc (s)Ld (s)Le (s)Lf (s)Lg (s)Lh (s)Li (s)Lj (s)Lk (s)Ll (s)Lm (s)Ln (s)Lo (s)Lp (s)Lq (s)Lr (s)Ls (s)Lt (s)Lu (s)Lv (s)Lw (s)Lx (s)Ly (s)Lz (s)Ma (s)Mb (s)Mc (s)Md (s)Me (s)Mf (s)Mg (s)Mh (s)Mi (s)Mj (s)Mk (s)Ml (s)Mm (s)Mn (s)Mo (s)Mp (s)Mq (s)Mr (s)Ms (s)Mt (s)Mu (s)Mv (s)Mw (s)Mx (s)My (s)Mz (s)Na (s)Nb (s)Nc (s)Nd (s)Ne (s)Nf (s)Ng (s)Nh (s)Ni (s)Nj (s)Nk (s)Nl (s)Nm (s)Nn (s)No (s)Np (s)Nq (s)Nr (s)Ns (s)Nt (s)Nu (s)Nv (s)Nw (s)Nx (s)Ny (s)Nz (s)Oa (s)Ob (s)Oc (s)Od (s)Oe (s)Of (s)Og (s)Oh (s)Oi (s)Oj (s)Ok (s)Ol (s)Om (s)On (s)Oo (s)Op (s)Oq (s)Or (s)Os (s)Ot (s)Ou (s)Ov (s)Ow (s)Ox (s)Oy (s)Oz (s)Pa (s)Pb (s)Pc (s)Pd (s)Pe (s)Pf (s)Pg (s)Ph (s)Pi (s)Pj (s)Pk (s)Pl (s)Pm (s)Pn (s)Po (s)Pp (s)Pq (s)Pr (s)Ps (s)Pt (s)Pu (s)Pv (s)Pw (s)Px (s)Py (s)Pz (s)Qa (s)Qb (s)Qc (s)Qd (s)Qe (s)Qf (s)Qg (s)Qh (s)Qi (s)Qj (s)Qk (s)Ql (s)Qm (s)Qn (s)Qo (s)Qp (s)Qq (s)Qr (s)Qs (s)Qt (s)Qu (s)Qv (s)Qw (s)Qx (s)Qy (s)Qz (s)Ra (s)Rb (s)Rc (s)Rd (s)Re (s)Rf (s)Rg (s)Rh (s)Ri (s)Rj (s)Rk (s)Rl (s)Rm (s)Rn (s)Ro (s)Rp (s)Rq (s)Rr (s)Rs (s)Rt (s)Ru (s)Rv (s)Rw (s)Rx (s)Ry (s)Rz (s)Sa (s)Sb (s)Sc (s)Sd (s)Se (s)Sf (s)Sg (s)Sh (s)Si (s)Sj (s)Sk (s)Sl (s)Sm (s)Sn (s)So (s)Sp (s)Sq (s)Sr (s)Ss (s)St (s)Su (s)Sv (s)Sw (s)Sx (s)Sy (s)Sz (s)Ta (s)Tb (s)Tc (s)Td (s)Te (s)Tf (s)Tg (s)Th (s)Ti (s)Tj (s)Tk (s)Tl (s)Tm (s)Tn (s)To (s)Tp (s)Tq (s)Tr (s)Ts (s)Tt (s)Tu (s)Tv (s)Tw (s)Tx (s)Ty (s)Tz (s)Ua (s)Ub (s)Uc (s)Ud (s)Ue (s)Uf (s)Ug (s)Uh (s)Ui (s)Uj (s)Uk (s)Ul (s)Um (s)Un (s)Uo (s)Up (s)Uq (s)Ur (s)Us (s)Ut (s)Uv (s)Uw (s)Ux (s)Uy (s)Uz (s)Va (s)Vb (s)Vc (s)Vd (s)Ve (s)Vf (s)Vg (s)Vh (s)Vi (s)Vj (s)Vk (s)Vl (s)Vm (s)Vn (s)Vo (s)Vp (s)Vq (s)Vr (s)Vs (s)Vt (s)Vu (s)Vv (s)Vw (s)Vx (s)Vy (s)Vz (s)Wa (s)Wb (s)Wc (s)Wd (s)We (s)Wf (s)Wg (s)Wh (s)Wi (s)Wj (s)Wk (s)Wl (s)Wm (s)Wn (s)Wo (s)Wp (s)Wq (s)Wr (s)Ws (s)Wt (s)Wu (s)Wv (s)Ww (s)Wx (s)Wy (s)Wz (s)Xa (s)Xb (s)Xc (s)Xd (s)Xe (s)Xf (s)Xg (s)Xh (s)Xi (s)Xj (s)Xk (s)Xl (s)Xm (s)Xn (s)Xo (s)Xp (s)Xq (s)Xr (s)Xs (s)Xt (s)Xu (s)Xv (s)Xw (s)Xx (s)Xy (s)Xz (s)Ya (s)Yb (s)Yc (s)Yd (s)Ye (s)Yf (s)Yg (s)Yh (s)Yi (s)Yj (s)Yk (s)Yl (s)Ym (s)Yn (s)Yo (s)Yp (s)Yq (s)Yr (s)Ys (s)Yt (s)Yu (s)Yv (s)Yw (s)Yx (s)Yy (s)Yz (s)Za (s)Zb (s)Zc (s)Zd (s)Ze (s)Zf (s)Zg (s)Zh (s)Zi (s)Zj (s)Zk (s)Zl (s)Zm (s)Zn (s)Zo (s)Zp (s)Zq (s)Zr (s)Zs (s)Zt (s)Zu (s)Zv (s)Zw (s)Zx (s)Zy (s)Zz	Stratified sand; in places silt or pebble gravel. May contain peat or other organic material. Loose to compact. U.S.C.: SP or SW.	Deposited by present rivers and streams. A deposits are stable and vegetated; A deposits are active and unvegetated.	2 (1-5)  3 (1-5)  (0-1)	Flat-topped deposits in valleys. In places marked by channel scars and other alluvial forms.  Fan-shaped deposits at breaks in slope. In places slightly dissected.  Reflects topography of underlying material.	1 (0-3) (0-30)  5 (0-10) (0-30)  D.U.M.  D.U.M.	(0-3)  (0-3)  D.U.M.  D.U.M.	Permeability generally high but may be low in silt facies. Deposits poorly drained. Where raised above river level (A) well drained. Drainage patterns not developed.  Reflects topography of underlying material.	Only one measurement of 55 cm was made on sAp.	Not studied.	A do not show periglacial patterned ground features.	Deposits found in bottoms of all river valleys and along major streams.	Most commonly associated with I and F in valleys or with E where unvegetated. Since rivers transect all other deposits, A may be associated with any other unit.	*Large portions of A are unvegetated. Locally scattered common early successional grasses include <i>Alpinum alpinum</i> , <i>Calopogon vahlkianum</i> , and <i>Festuca brachyphylla</i> . <i>Carophyllaceae</i> . Well vegetated A-similar to communities on marine deposits.	
L	(s)Lp (s)Lq (s)Lr (s)Ls (s)Lt (s)Lu (s)Lv (s)Lw (s)Lx (s)Ly (s)Lz	Poorly stratified silty sand to gravelly coarse sand. Beaches may be present as fine-grained. May contain incorporated colluvium and organic detritus. Loose and crumbly. U.S.C.: SW.	Deposited in standing freshwater; includes material transported to the lake by rivers or reworked by wave action. The proglacial lakes formed by isotactic tilt or by damming of the drainage systems by ice.	3 (1-10)  3 (1-10)  (0-1)	Slightly undulating to flat; confined to depressions.  Flat-topped deposits not confined to depressions.  Reflects topography of underlying material.	1 (0-3) 12 (3-50)  1 (0-3) 12 (3-50)  D.U.M.  D.U.M.	2 (0.5-3)  2 (0.5-3)  D.U.M.  D.U.M.	Permeability moderate to low. Beaches have moderate to high permeability. Deposits poorly drained. Standing water common. Beaches and veneer units on slopes are better drained. Drainage patterns are complex to deranged, characterized by many shallow lakes and ponds.	Thicknesses from 35-85 cm with average of 50 cm. Low values obtained where deposits covered by peat. Measurements tended to be made near periphery of unit as middle often contained ponds.	From few observations, 30% Vs, Vx, and ice with soil inclusions occurred just below the active layer. At greater depths, Nb, Nbn, and minor amounts of Vx.	Circles: Poorly developed nonsorted and occasionally sorted circles occur at most sites. Diameters up to 3 m, average 40 cm.  Polygons: Best formed on recently drained deposits. Ice wedges commonly form orthogonal pattern 5-30 m across, with one set of wedges depression and position of basin and other parallel to former shoreline.  Stripes: Nonsorted stripes characteristic of Lv over Mr. Sorted stripes noted at many sites.	Deposits occur in previous lake basins as Lb and Lt often lapping up the sides of the basin as Lv. Extent of former lake basins were controlled by isotactic depression and position of the ice front. In rare instances, lakes were formed behind barriers (e.g. moraines) which were later dissected. Most lakes were short-lived.	Generally associated with Mb, Mw, and R. Due to washing action of waves, it may also be associated with Mw, Mb, and Nbn. Also an association with Mr where retreating ice was in contact with standing water forming Decker moraines. Many deposits are overlain by peat and colluvium.	*Dense Cryptogam-monocot tundra-on moderately and imperfectly drained materials. Cryptogams include <i>Rhacomitrium lanuginosum</i> , <i>Tomenthypnum</i> , <i>Deschampsia flexuosa</i> , <i>Bryocarpus</i> sp., <i>Cladonia rangiferina</i> , <i>C. mitis</i> , <i>C. alpestris</i> , and <i>Cetraria</i> sp. Sparse monocots <i>Carex bigelowii</i> and <i>Luzula confusa</i> . At lower elevations erect shrubs <i>Salix phylicifolia</i> and <i>Betula</i> occur. Well drained L: Lichen-Hieracium tundra. Poorly drained L: Poorly developed sedge wet meadow.	
M	(s)M1bde (s)M1c (s)M1e (s)M1f (s)M1g (s)M1h (s)M1i (s)M1j (s)M1k (s)M1l (s)M1m (s)M1n (s)M1o (s)M1p (s)M1q (s)M1r (s)M1s (s)M1t (s)M1u (s)M1v (s)M1w (s)M1x (s)M1y (s)M1z (s)M2a (s)M2b (s)M2c (s)M2d (s)M2e (s)M2f (s)M2g (s)M2h (s)M2i (s)M2j (s)M2k (s)M2l (s)M2m (s)M2n (s)M2o (s)M2p (s)M2q (s)M2r (s)M2s (s)M2t (s)M2u (s)M2v (s)M2w (s)M2x (s)M2y (s)M2z (s)M3a (s)M3b (s)M3c (s)M3d (s)M3e (s)M3f (s)M3g (s)M3h (s)M3i (s)M3j (s)M3k (s)M3l (s)M3m (s)M3n (s)M3o (s)M3p (s)M3q (s)M3r (s)M3s (s)M3t (s)M3u (s)M3v (s)M3w (s)M3x (s)M3y (s)M3z (s)M4a (s)M4b (s)M4c (s)M4d (s)M4e (s)M4f (s)M4g (s)M4h (s)M4i (s)M4j (s)M4k (s)M4l (s)M4m (s)M4n (s)M4o (s)M4p (s)M4q (s)M4r (s)M4s (s)M4t (s)M4u (s)M4v (s)M4w (s)M4x (s)M4y (s)M4z (s)M5a (s)M5b (s)M5c (s)M5d (s)M5e (s)M5f (s)M5g (s)M5h (s)M5i (s)M5j (s)M5k (s)M5l (s)M5m (s)M5n (s)M5o (s)M5p (s)M5q (s)M5r (s)M5s (s)M5t (s)M5u (s)M5v (s)M5w (s)M5x (s)M5y (s)M5z (s)M6a (s)M6b (s)M6c (s)M6d (s)M6e (s)M6f (s)M6g (s)M6h (s)M6i (s)M6j (s)M6k (s)M6l (s)M6m (s)M6n (s)M6o (s)M6p (s)M6q (s)M6r (s)M6s (s)M6t (s)M6u (s)M6v (s)M6w (s)M6x (s)M6y (s)M6z (s)M7a (s)M7b (s)M7c (s)M7d (s)M7e (s)M7f (s)M7g (s)M7h (s)M7i (s)M7j (s)M7k (s)M7l (s)M7m (s)M7n (s)M7o (s)M7p (s)M7q (s)M7r (s)M7s (s)M7t (s)M7u (s)M7v (s)M7w (s)M7x (s)M7y (s)M7z (s)M8a (s)M8b (s)M8c (s)M8d (s)M8e (s)M8f (s)M8g (s)M8h (s)M8i (s)M8j (s)M8k (s)M8l (s)M8m (s)M8n (s)M8o (s)M8p (s)M8q (s)M8r (s)M8s (s)M8t (s)M8u (s)M8v (s)M8w (s)M8x (s)M8y (s)M8z (s)M9a (s)M9b (s)M9c (s)M9d (s)M9e (s)M9f (s)M9g (s)M9h (s)M9i (s)M9j (s)M9k (s)M9l (s)M9m (s)M9n (s)M9o (s)M9p (s)M9q (s)M9r (s)M9s (s)M9t (s)M9u (s)M9v (s)M9w (s)M9x (s)M9y (s)M9z (s)M10a (s)M10b (s)M10c (s)M10d (s)M10e (s)M10f (s)M10g (s)M10h (s)M10i (s)M10j (s)M10k (s)M10l (s)M10m (s)M10n (s)M10o (s)M10p (s)M10q (s)M10r (s)M10s (s)M10t (s)M10u (s)M10v (s)M10w (s)M10x (s)M10y (s)M10z (s)M11a (s)M11b (s)M11c (s)M11d (s)M11e (s)M11f (s)M11g (s)M11h (s)M11i (s)M11j (s)M11k (s)M11l (s)M11m (s)M11n (s)M11o (s)M11p (s)M11q (s)M11r (s)M11s (s)M11t (s)M11u (s)M11v (s)M11w (s)M11x (s)M11y (s)M11z (s)M12a (s)M12b (s)M12c (s)M12d (s)M12e (s)M12f (s)M12g (s)M12h (s)M12i (s)M12j (s)M12k (s)M12l (s)M12m (s)M12n (s)M12o (s)M12p (s)M12q (s)M12r (s)M12s (s)M12t (s)M12u (s)M12v (s)M12w (s)M12x (s)M12y (s)M12z (s)M13a (s)M13b (s)M13c (s)M13d (s)M13e (s)M13f (s)M13g (s)M13h (s)M13i (s)M13j (s)M13k (s)M13l (s)M13m (s)M13n (s)M13o (s)M13p (s)M13q (s)M13r (s)M13s (s)M13t (s)M13u (s)M13v (s)M13w (s)M13x (s)M13y (s)M13z (s)M14a (s)M14b (s)M14c (s)M14d (s)M14e (s)M14f (s)M14g (s)M14h (s)M14i (s)M14j (s)M14k (s)M14l (s)M14m (s)M14n (s)M14o (s)M14p (s)M14q (s)M14r (s)M14s (s)M14t (s)M14u (s)M14v (s)M14w (s)M14x (s)M14y (s)M14z (s)M15a (s)M15b (s)M15c (s)M15d (s)M15e (s)M15f (s)M15g (s)M15h (s)M15i (s)M15j (s)M15k (s)M15l (s)M15m (s)M15n (s)M15o (s)M15p (s)M15q (s)M15r (s)M15s (s)M15t (s)M15u (s)M15v (s)M15w (s)M15x (s)M15y (s)M15z (s)M16a (s)M16b (s)M16c (s)M16d (s)M16e (s)M16f (s)M16g (s)M16h (s)M16i (s)M16j (s)M16k (s)M16l (s)M16m (s)M16n (s)M16o (s)M16p (s)M16q (s)M16r (s)M16s (s)M16t (s)M16u (s)M16v (s)M16w (s)M16x (s)M16y (s)M16z (s)M17a (s)M17b (s)M17c (s)M17d (s)M17e (s)M17f (s)M17g (s)M17h (s)M17i (s)M17j (s)M17k (s)M17l (s)M17m (s)M17n (s)M17o (s)M17p (s)M17q (s)M17r (s)M17s (s)M17t (s)M17u (s)M17v (s)M17w (s)M17x (s)M17y (s)M17z (s)M18a (s)M18b (s)M18c (s)M18d (s)M18e (s)M18f (s)M18g (s)M18h (s)M18i (s)M18j (s)M18k (s)M18l (s)M18m (s)M18n (s)M18o (s)M18p (s)M18q (s)M18r (s)M18s (s)M18t (s)M18u (s)M18v (s)M18w (s)M18x (s)M18y (s)M18z (s)M19a (s)M19b (s)M19c (s)M19d (s)M19e (s)M19f (s)M19g (s)M19h (s)M19i (s)M19j (s)M19k (s)M19l (s)M19m (s)M19n (s)M19o (s)M19p (s)M19q (s)M19r (s)M19s (s)M19t (s)M19u (s)M19v (s)M19w (s)M19x (s)M19y (s)M19z (s)M20a (s)M20b (s)M20c (s)M20d (s)M20e (s)M20f (s)M20g (s)M20h (s)M20i (s)M20j (s)M20k (s)M20l (s)M20m (s)M20n (s)M20o (s)M20p (s)M20q (s)M20r (s)M20s (s)M20t (s)M20u (s)M20v (s)M20w (s)M20x (s)M20y (s)M20z (s)M21a (s)M21b (s)M21c (s)M21d (s)M21e (s)M21f (s)M21g (s)M21h (s)M21i (s)M21j (s)M21k (s)M21l (s)M21m (s)M21n (s)M21o (s)M21p (s)M21q (s)M21r (s)M21s (s)M21t (s)M21u (s)M21v (s)M21w (s)M21x (s)M21y (s)M21z (s)M22a (s)M22b (s)M22c (s)M22d (s)M22e (s)M22f (s)M22g (s)M22h (s)M22i (s)M22j (s)M22k (s)M22l (s)M22m (s)M22n (s)M22o (s)M22p (s)M22q (s)M22r (s)M22s (s)M22t (s)M22u (s)M22v (s)M22w (s)M22x (s)M22y (s)M22z (s)M23a (s)M23b (s)M23c (s)M23d (s)M23e (s)M23f (s)M23g (s)M23h (s)M23i (s)M23j (s)M23k (s)M23l (s)M23m (s)M23n (s)M23o (s)M23p (s)M23q (s)M23r (s)M23s (s)M23t (s)M23u (s)M23v (s)M23w (s)M23x (s)M23y (s)M23z (s)M24a (s)M24b (s)M24c (s)M24d (s)M24e (s)M24f (s)M24g (s)M24h (s)M24i (s)M24j (s)M24k (s)M24l (s)M24m (s)M24n (s)M24o (s)M24p (s)M24q (s)M24r (s)M24s (s)M24t (s)M24u (s)M24v (s)M24w (s)M24x (s)M24y (s)M24z (s)M25a (s)M25b (s)M25c (s)M25d (s)M25e (s)M25f (s)M25g (s)M25h (s)M25i (s)M25j (s)M25k (s)M25l (s)														