

NOTES AND NEWS

CORRECTIONS TO DANA'S SYSTEM OF MINERALOGY, VOLUME ONE, SEVENTH EDITION

CLIFFORD FRONDEL, *Department of Mineralogy, Harvard
University, Cambridge, Mass.*

The accompanying list details all of the significant corrections that have so far been found in the first printing of volume one of the seventh edition of Dana's System of Mineralogy (John Wiley and Sons, New York, 1944). These corrections, together with others of a minor nature, have been effected in the second printing of the work (January, 1946), and are listed here for the information of holders of the original printing. A few additional corrections, found too late for inclusion in the second printing, are also listed. These are indicated by an asterisk preceding the page number. Reprints of this paper may be obtained from the above address.

<i>Page</i>	<i>Line</i>	
viii	14, up	<i>for years read months.</i>
6	5, down	<i>for structure factors read structural controls.</i>
6	13, up	<i>for The crystal symmetry class notation used here is that of Rogers read The class names used here are those of Groth modified by Rogers, . . .</i>
9	1, down	<i>for in the lower column read in the column headed "lower."</i>
*13	Eqn. 25	<i>for $c = \frac{q_0' \cos \nu \sin \lambda}{\sin \mu}$ read $c = \frac{q_0' \cos \rho_0 \sin \nu}{\sin \mu}$.</i>
14	3, down	<i>delete the brackets around the equation.</i>
14	Table 4	<i>delete the vertical bar between Class and 1 and center the heading Class 1 over the two left-hand columns.</i>
20	Table 5	<i>delete the vertical bar between Class and m and center the heading Class m over the two left-hand columns.</i>
22	Eqn. 69	<i>for $\tan \rho = C$ read $\tan \rho = \tan C$.</i>
*22	6, up	<i>for the angle to $-m(\bar{1}0)$ read the angle to $-m(\bar{1}10)$.</i>
25	8, up	<i>for $i = (h+k)$ read $\bar{i} = (h+k)$.</i>
32	Table 14	<i>for form e under column $\rho = A_3$, for $26^\circ 33'$ read $26^\circ 34'$, and under column A_2 for $63^\circ 27'$ read $63^\circ 26'$.</i>
41	20, up	<i>the sentence beginning The degrees of . . . should be made a new paragraph.</i>
43	Ref. 24, footnote	<i>for 556 read 566.</i>
48	9, down	<i>for 1922 read 1916.</i>
48	14, down	<i>for tables read atlas, and for 1922 read 1916.</i>
62		<i>under Roy. Soc. Edinburgh, Trans. for vol. 1-57, no. 6, 1783-1932 read vol. 1, 1783-date.</i>
64		<i>under Zs. anorg. Chem. for vol. 51-100, 1906-07 read vol. 51-100, 1906-17.</i>
68		<i>under Clarke (1924) for 1934 read 1924.</i>

- 75 *under Kraus, Hunt and Ramsdell (1936) for S. L. Ramsdell read L. S. Ramsdell and for 1836 read 1936.*
- 85 5, up *for Millimicrons = 10^{-6} cm = $\frac{\text{Å}}{100}$ read Millimicrons = 10^{-7} cm = 10Å .*
- 87 *under Class 1, Type 2, for Non-metals read Non-metals and semi-metals.*
- 87 *under Class 5, add Type 3, Miscellaneous.*
- 87 *under Class 6, delete Type 3, Miscellaneous.*
- 104 *under Ref. 2, for (Ag₅Hg) read (Ag₅Hg₂).*
- 110 4, down *for planet read planetoid.*
- 112 *under citation of analyses, insert 7. before Borneo⁸.*
- *113 *in Ref. 1, for 3 2/m read $\bar{3}$ 2/m.*
- *113 *in Ref. 3, for 1016 read 10 $\bar{1}$ 6 and for 1012 read 10 $\bar{1}$ 2.*
- *123 *under Forms, for $\bar{n}\{101\bar{4}\}$ read $\bar{n}\{10\bar{1}\bar{4}\}$.*
- 128 *under Arsenic, Cryst., for 3 2/m read $\bar{3}$ 2/m.*
- 128 *under Forms, for Z 0118 read z 0118, and for P 0112 read p 0112.*
- *132 *under Forms, for c 001 read c 0001.*
- *136 *under Forms, for m 1010 read m 10 $\bar{1}$ 0.*
- 140 *under Sulfur, Cryst., read $q_1:r_1:p_1$ in the ratio $q:r:p=0.8131:0.4272:1$, and read $r_2:p_2:q_2$ in the ratio $r:p:q=0.5254:1.2298:1$.*
- 146 11, down *for hydrosulfate read hydrosulfide.*
- 147 *In the two figures on the right in the top row, for c read a.*
- 151 Ref. 5 *for 7 read 360.*
- 151 Ref. 15 *for Hey read Bannister and Lonsdale.*
- 152 bottom line *for 1.93-207 read 1.93-2.07.*
- 154 Ref. 1 *for 27 read 26.*
- 160 *under Structure cell, add Space group $R\bar{3}m$.*
- 162 *under Structure cell, for Space group $R\bar{3}$, $R32$ or $R\bar{3}m$ read Space group $R\bar{3}m$.*
- 163 6 and 7, up *for Temiskaming district read Cochrane district.*
- 165 *to Ref. 4, under oruelite, add See also Peacock (Univ. Toronto Stud., Geol. Ser., 46, 83, 1941).*
- 168 *in Anal. 1, for 10.33 read 10.01, for 0.32 read 0.60, and for total, 100.08, read 100.04.*
- 169 1, top *for Rem. is Fe 0.32 read Rem. is Fe 0.32, SiO₂ 0.28.*
- 175 *under Anal., for Fe₂O₃ read Fe₂O₃.*
- 177 *in figure, for c read a.*
- 184 3, up *for Hg₂Te read Ag₂Te.*
- 192 *in last line of Ref. 2, for 29 read 28.*
- 198 *under Opt., delete $n_D=1.6654$.*
- *210 *under Forms, for $-\beta$ 223 read $-\beta$ $\bar{2}23$; for γ $\bar{2}25$ read $-\gamma$ $\bar{2}25$; for Z 357 read $-Z$ $\bar{3}57$.*
- 215 *under Forms, for q 112 read n 112, and for $-q$ $\bar{1}12$ read $-n$ $\bar{1}12$.*
- 216 *in figure, for k read n.*
- *220 *under Forms, for $-p$ 112 read $-p$ $\bar{1}12$.*
- 225 *in right hand figure, transpose $-p$ and $-n$.*
- *229 *under Forms, for y 7078 read y 7078.*
- 231 *in Niccolite Group tabulation, after 2656 Pentlandite for (Fe, Ni)S read (Fe, Ni)₉S₈.*

- 234 under *Artif.*, for FeS read FeS₂.
- 235 12, down for (3×3.433) read ($\sqrt{3}\times 3.433$).
- *240 under *Forms*, for $-\mu$ 14 $\bar{5}3$ read μ 14 $\bar{5}3$.
- *249 under *Less common forms*, for g 3·0·3·16 read g 3·0· $\bar{3}$ ·16.
- *252 under *Forms*, for i 2025 read i 20 $\bar{2}5$; for Δ 1012 read Δ 10 $\bar{1}2$; for $-q$ 0221 read \bar{q} 02 $\bar{2}1$; for u: ' 1124 read u: ' 11 $\bar{2}4$.
- *253 7, up for Idri $\bar{1}in$ read Idrialin.
- *255 5, down under *Uncertain forms*, for 1·0·1·14 read 1·0· $\bar{1}$ ·14.
- *260 6, down in *Ref. 2*, for space group *Pnma* read space group *Pm $\bar{c}n$* .
- 270 under *Forms*, for ϕ 120 read ϕ 120.
- 274 under *Artif.*, for Sb₂O₂ read Sb₂O₃.
- 278 bottom line for bismutosphalerite read bismutosphaerite (or, more correctly, bismutite).
- 279 under *Kermesite, Cryst.*, insert superscript 2 after axial ratio, i.e., $a:b:c=1.339:1:1.265^2$.
- 283 in right hand figure in the middle row (Urals) for e' read 'e. Note also in the second figure in the top row that the striations on the cube face (010) should be horizontal.
- 292 after *Artif.* add Name. Named by Wöhler as a compliment to the wife of a personal friend.
- 294 in line 9 under *Occur.* for Wakatipu district, Collingwood, New Zealand read Wakatipu district, and Collingwood, New Zealand.
- 303 line 8 in *synonymy* after *Loellingite*, for *Pharmakopyrit* read *Pharmakopyrit*.
- 304 in bottom right hand figure, from *Center Strafford, N. H.*, add caption (Old orientation; $z=s$, $l=m$, $m=e$).
- *307 in *Structure Cell*, for Co₄As₈⁴ read Co₄As₈¹¹.
- *309 under *ref. 10* add 11. de Jong (*Physica*, 6, 325, 1926) by powder and rotation methods on material from Schneeberg.
- 309 delete analysis no. 3 and the corresponding citation (*Hudson Bay mine*).
- 310 in *Ref. 4*, line 2, for 670 read 676.
- 318 in the middle figure of the top row, for the caption Serbia read Serbia. $\alpha\{1.24.0\}$.
- 326 under *Chem.*, add superscript 2 as follows: Only one analysis has been made.²
- *333 under *Krennerite, Cryst.*, for Orthorhombic; dipyramidal—2/*m* 2/*m* 2/*m* read Orthorhombic; pyramidal—*m* *m* 2.
- *338 under *Sylvanite, Forms*, for *N* $\bar{1}03$ under ϕ for $-90^{\circ}00'$ read $90^{\circ}00'$; and in list of less common forms for X $\bar{3}11$ read K $\bar{3}11$.
- 340 17, down for Kirkland Lake read Porcupine.
- 343 in *Anal. no. 4*, for 75.30 read 75.70 and for total, 99.54, read 99.94.
- 344 in analysis citation no. 16, for Cobalt, Ontario read Oravicza, Roumania.
- 344 in analysis no. 24, for 74.54 read 74.52, and for total, 99.74, read 99.72.
- 345 23, down for Goat Hill read Great Hill.
- 346 in *Ref. 23*, for 80 read 81.
- 348 after 3313 *Colusite*, for Cu₃(Sn,Te,V,As)S₄ read Cu₃(Sn,Te,Fe,V,-As)S₄.
- 348 after 31. *A_mB_nX_p Type*, for $m+n>4:3$ read $m+n:p>4:3$.

- 351 *in right hand figure, for the lower face p read P, for the lower face r read R, and for the lower face-labeled n read N.*
- 352 *in citation of analysis no. 3, for Quespisiza, Chile, read Quespisiza, Peru.*
- 354 *in the figure, transpose p and r on the upper faces, and label the bottom face in the same zone R and the face next above P.*
- 359 *in list of less common forms, for l 233 read l 223.*
- *369 *under Forms, for P 141 read P I41.*
- 371 *under Forms, for P 111 read P I11.*
- 373 *for Occur. read Occur.⁷*
- 376, 377, 378 *under Anal., for ferrian read ferroan in the captions to anal. 5, 6, 8, 14, 18, 28, 30, 34.*
- 378 *in the citation to analysis no. 29, for (and bismuthian) read (and bismuthian, ferroan). In the citation to analysis no. 35 for (sandbergite) read (sandbergerite).*
- 390 *in the right hand figure, for f read II.*
- 395 *transpose the right hand figure with the lower right hand figure (Harz) on page 407.*
- 407 *in the lower left hand figure, for n read η .*
- *417 top line *for c_0 6.88 read c_0 5.88.*
- 417 *in the left hand figure, transpose w and v.*
- 440 *under Forms, in the column headings to the angle table for p read $p=C$; for ρ_1 read $\rho_1=A$; for ρ_2 read $\rho_2=B$.*
- *440 *in Structure cell, for Space group Pnma read Space group Pmcn.*
- 440 *in the caption to analysis no. 3, for SnS read ZnS.*
- 443 *in the figure, for x read v, and for the prism forms F K m s read s m K F.*
- *443 *under Forms, for form π I11 under column ϕ , for $6^\circ 40'$ read $-6^\circ 40'$.*
- 450 *in line 2 in Ref. 1, for to new elements read to new elements in the preferred position.*
- 458 *in the figure labeled San Jose, Bolivia, for the brachydome v read π .*
- 461 11, down *insert superscript 5 after formula, e.g., $Pb_4As_6Si_5^5$.*
- 465 top line *for 5.533 read 5.60.*
- 469 *in figure, for u read U, and for v read v.*
- 471 *under Forms, for G 211 read g 211, and in the list of less common forms, for g 311 read G 311.*
- 472 3, down *for A bismuth sulfide, read A lead, bismuth sulfide.*
- 484 *in the right hand figure, for σ read o.*
- 491 *in the tabulation of the AX_2 Type, in line 14 for 4581 Bismite read 447 Bismite, and for 4582 Sillenite read 448 Sillenite. (These species properly belong at the end of the AX_3 type.)*
- 491 *Following Sillenite, insert a heading 46. A_mX_n Type, and change the type numbers under it as follows: for 459 Vanoxite read 461 Vanoxite, for 45.10 Corvusite read 462 Corvusite, for 45.11 Ilsemannite read 463 Ilsemannite, for 45.12 Russellite read 464 Russellite, for 45.13 Tungstite read 465 Tungstite.*
- 492 *in the upper left hand figure, labeled Wheel Phoenix, Cornwall, for x read F.*
- 494 *in Ref. 1, line 3, for (155, 1916) read (155, 1915).*
- *495 *under Forms, for y Okil read y Okil*

- *504 *under Forms, for α 4045 read α 40 $\bar{4}$ 5.*
- *505 *in caption under figure, for $f\{20\bar{2}1\}$ read $f\{11\bar{2}2\}$.*
- *508 *under Forms, for form $\{101\}$ read $\{10\bar{1}\}$.*
- 518 2, down *in analysis no. 1, for Pb_3O_4 9.39 read 91.39.*
- *528 *under Forms, for μ 0115 read μ 01 $\bar{1}$ 5, and for s 02 $\bar{2}$ 1 read s 02 $\bar{2}$ 1; in the list of less common forms for λ 10.1.16 read λ 1.0. $\bar{1}$.16, and for z 22 $\bar{4}$ 1 read s 22 $\bar{4}$ 1.*
- *535 *under Ilmenite forms, for P 0551 read P 05 $\bar{5}$ 1.*
- 537 *in citation of analyses, after no. 1, for $FeTiO_2$ read $FeTiO_3$.*
- 544 bottom line *for calamine read cerussite.*
- 546 *in the right hand figure, for u read a .*
- 550 *at the top of the page, in the third column of forms, for 5.3.0 read 530, and in the fifth column, for 0.11. read 0.11.8.*
- 555 *under Forms, for z 231 read Z 231.*
- 563 *in the fifth line under Chem., for ebelmanite read ebelmenite*
- 566 *in line 7 under the heading Wad, delete (and cryptomelane)*
- *567 *under Anal., insert 7 at top of the right hand column.*
- 570 16, down *for Sweden read Norway.*
- 15, down *for Black Forest read Odenwald.*
- 14, down *for Rhine Province read Westphalia.*
- 16, down *for in the Tirol read, Salzburg.*
- 577 19, up *for Wyoming read Nevada.*
- 579 5, down *delete Near Burns, Oregon.*
- 8, down *for Wyoming read Nevada.*
- 10, down *for pageite read paigeite.*
- 12, down *for Algoma district read Sudbury District.*
- 584 *in the left hand figure in the top row, for η read n .*
- 598 10, down *for Ontario read Quebec.*
- 599 *for 4581 Bismite read 447 Bismite.*
- 601 *for 4582 Sillenite read 448 Sillenite.*
- 601 *for 459 Vanoxite read 461 Vanoxite.*
- 602 *for 45.10 Corvusite read 462 Corvusite.*
- 603 2, up *for $MoO_3SO_3 \cdot 5H_2O$ read $MoO_3 \cdot SO_3 \cdot 5H_2O$.*
- *604 7, up *for $\bar{4} 2/m$ read $\bar{4} 2 m$.*
- 604 *for 45.12 Russellite read 464 Russellite.*
- 605 *for 45.13 Tungstite read 465 Tungstite.*
- 607 *in the tabulation of oxides containing uranium, for 531 Becquerelite read 523 Becquerelite, for 532 Schoepite read 524 Schoepite, for 533 Fourmarierite read 531 Fourmarierite, for 534 Curite read 532 Curite, for 535 Uranosphaerite read 533 Uranosphaerite, for 536 Vandenbrandite read 534 Vandenbrandite, and for 537 Ianthinite read 535 Ianthinite.*
- 608 *under Forms, for r 102 read r 10 $\bar{2}$.*
- 608 *in the figure, for n read y , and in the caption to the figure for Rakwana, Ceylon, read Balangoda, Ceylon.*
- 625 *for 531 Becquerelite read 523 Becquerelite.*
- 627 *for 532 Schoepite read 524 Schoepite.*
- 628 *for 533 Fourmarierite read 531 Fourmarierite.*
- 629 *for 534 Curite read 532 Curite.*
- 631 *for 535 Uranosphaerite read 533 Uranosphaerite.*
- 632 *for 536 Vandenbrandite read 534 Vandenbrandite.*

- 633 *for 537 Ianthinite read 535 Ianthinite.*
- 635 *in tabulation of AX₃ Type, bottom line, for 625 Psilomelane read 618 Psilomelane (belongs in AX₂ type).*
- 646 *in Ref. 5, for 0.20 read 0.020.*
- 656 6, down *for Tasmania read Transvaal.*
- 658 2, up *for Sweden read Norway.*
- 665 5, up *for chalcocaluminite read chalcoalumite.*
- 668 *in citation no. 1 under the analyses, for Ca₄Al₆(OH)₁₄ · 5H₂O read Ca₄Al₂(OH)₁₄ · 5H₂O.*
- 668 *for 625 Psilomelane read 618 Psilomelane.*
- 673 bottom line *in the formula for 762 Zirkelite, for (Ca,Fe,Th,U)(Ti,Zr)₂O₅ read (Ca,Fe,Th,U)₂(Ti,Zr)₂O₅.*
- 691 5, up *for SnO₂ read SiO₂.*
- *706 *in ref. 12, for (001) pyrophanite read (0001) pyrophanite.*
- 707 11, up *for Vredenbergite read Vredenburgite, and for 199 read 42.*
- 721 10, down *for Porte read Poste.*
- 721 3, up *for 17 read 9.*
- *724 *in angle table, for d $\bar{1}01$ under ϕ , for 90°00' read -90°00'.*
- *726 *under Less common forms, for q 2023 read q 2023.*
- 742 top line *for Hf read HF.*
- 746, 747 *for the caption A_mB_nX_x Type read A_mB_nX_p Type.*
- 764 *under Anal. for La₂O read La₂O₃.*
- 771 *in caption to analysis no. 1, for Al₂Ta₂O read Al₂Ta₂O₈.*
- 772 4, up *for Ca₂O₃ read Ce₂O₃.*
- 779 *under Chem., line 2, for (A₂B₃B₁₀) read (A₂B₃O₁₀).*
- 782 *the formula given for the specific gravity of members of the columbite-tantalite series, beginning on line 7, should read (5.20+0.03 x %Ta₂O₅ = G±0.05 for . . .)*
- *792 4, up *for Eschwegite read Eschwegeite.*
- 797 *in the figure, for d read e, and for e read x.*
- 801 *the caption for analysis no. 2 should read 2. Plumboniobite. Rem. is loss on ign.*
- 809 *Ampangabeite, for 805 read 806.*
- 811 *Baddeleyite, for 607 read 607, 608.*
- 813 *for Cacheutite read Cacheutaite.*
- 814 *for Colbaltpyrite read Cobaltpyrite.*
- 814 *for Colbaltum . . . read Cobaltum . . .*
- *816 *for Eschwegite read Eschwegeite.*
- 819 *Hydroeuxenite, for 805 read 806.*
- 820 *Jacut, for 420 read 520.*
- 820 *Kayserite, for 679 read 680.*
- 821 *Kochelite, for 762 read 757, 762.*
- 822 *Magnetoplumbite, for 727 read 728.*
- 824 *Nemalite, nematolite, for 637 read 636, 638.*
- 824 *Nigrin, for 558 read 555, 558.*
- 827 *for Rammelsbergit read Rammelsbergite.*
- 828 *Schirmerite, for 423 read 424.*
- 831 *Tanatarite, for 679 read 680.*
- 833 *for Vredenbergite read Vredenburgite.*
- 833 *Vanadic Acid; Vanadic Ocher, for 493 read 494.*