

MOROCCO

AGUELMANE, Beghame, Morocco.

MA 15 487. Vanadinite



AMELAL, Region Argana-Bigoudine,
Morocco

(NE of Agadir, towards Marrakesh).

Min. u. de H-K, p. 64. Sengierite, with
volborthite & cuprosklodowskite (!!).
Cuprosklodowskite, with diopase (!!).

AOU LI

Atlas Mts, Morocco.

(Mibladen area)

27M

RWB cat (79).

Azurite, with malachite

ASSIF EL MAL MINE, Haut Atlas, Morocco

MA 12 480 Fibrous chalcanthite

AGADIR OU ANZIZEN, Morocco.

MA 14 421. Iron ore

AZÉGOUR Guedmoua, Morocco (I)
of SIDI BOU OTMANE (15Q)

MA 5 292 "Duparcite", new silicate,
radiating groups of greenish-grey
5-6 cm long tetrag. prism related to
idocrase, = "genevite". In hornfels
containing molybdenite

MA 5, 169. Molybdenite, small flakes among
garnet xls, & plates up to 2 cm, with small
amounts of chalcopyrite, blende. In weathered
zone, near surface, the molybd alt'd $\rightarrow$ powellite

AZEGOUR, Guedmoua Morocco (II).

MA 5 420. Molybdenite, 0.5 $\rightarrow$ 3 cm, partly
oxidised to molybdate. [?ferromolybdate].
Azegour is 80 km S of Marrakesh.

MA 8, 251. Mining. "Duparcite" = "genevite" = var.
of idocrase. Is in Guedmoua area,
Marrakesh Atlas.

MA 11 542 Azgour. Bayleyite [NB, soluble], with
uraninite, gypsum, epsomite

MA 12 576 Small xls stephanite with
native silver, argentite, pyrargyrite, cont (III)

AZEGOUR, Guedmiona, Morocco (III).

MA 12 576 (cont'd)... & minerals of Ni, Bi etc
in gangue of dolomite, baryte, & quartz

MA 16 324 Allanite

Dana 7th Ed. Powellite in garnet skarn

Bou ARFA

Morocco 360

MA 3 444 . Pyrolusite



Bou AZZER, Anti-Atlas, Morocco. (I)
= BOU AZZAR 18v

See also GRAARA, Bou OUFROM.

Famous for Co arsenides & arsenates, eg
superb erythrite, roselite, β -roselite xls, etc.
sphaerocobaltite xls

MA 6 369 Bou Azzer and Graara, Anti-Atlas,

Co, Ni, Cr, Cu, Au in Pre Cambrian, in
serpentine at contact with older
quartz-gabbro. Au in veins. Gangue
= calcite, dolomite, quartz.

Cont'd II

BOU AZZER, Anti-Atlas, Morocco (II).

MA 10, 499. Skutterudite, 5cm brilliant xls

MA 12, 222 Sepiolite

MA 12, 239 "Bouazzerite" = (Fe)-stichtite

MA 14 411 Heterogenite ("stainerite")

MA 15 41 Heterogenite, MA 15 271 Co, Ni, Fe
arsenides, including skutterudite.

MA 15 393 Lavendulan; pharmacosiderite.

MA 13 (MM 31 972) Smolyaninovite

? Novacekite

Bou CRICHA

MOROCCO

See M-ZALA-Bou-CRICHA

Boulborb, S. Agouriri, Anti-Atlas, Morocco

Rwb coll. Todo Korite

Bou OUFROH,

Morocco.

cf Bou AZZER

MA 9 121 Bou Oufroh serpentine
massif has beautiful (Fe) stichtite
very pale violet silky lamellae enclosing
chromite & magnesite

Bou SKOUR

Morocco

NE of Bou Azzer

RWB cat '79

agardite

Azurite with

e malachite

Bou TAZOULT, Imine, Morocco. 171
cf JEBEL SIROUA

MA 5 236. Mn ore, mainly polianite. Also
coronadite, botry, radial fibrous,
resembling psilomelane

Map NW of Ouarzazate

EL BOROUJ

Morocco

18N

See also LOUIS GENTIL

Min. U. de H.K. Carnotite in fissures of
"bances calcaires" in phosphatic formation

Map shows 2 "El-Borj" Mn mines NW of Bou
Azar

EL BORJ,

Morocco

17U, 17V

MA 15

487.

Todokoribe

Map shows 2 "Et Borj" Mn mines

SW of Ouarzazate & NW of Bou Azzer



GHAR-EL-ANZ, Morocco

See RAR-EL-ANZ

HASSIAN ED DIAB

MOROCCO

C. guillemin (1956) BSFM etc 79, 7-95

Tyrolite

IDIKEL, W. Anti Atlas, Morocco.

See also TACHAGALT

(Just E of Tafraoute)
TDIKEL (Mn) 114

MA 15, 487. Groutite

MA 16, 149. Crednerite, with cuprite,
psilomelane, malachite, endlicheite,
Mn-phlogopite, baryte.

MA 17, 762 Crednerite.

JEBEL MAHSEER, Oudjda, Morocco. 36 G
See also REHAMNA, TITTAQUINE, OUDJDA.

MA 2 26. 25km S of Oudjda. Pockets of galena
in dolom. l'st, with ^{fine} good xls of vanadinite, of
different habits, up to $3 \times 1\frac{1}{2}$ cm(!); wulfenite, 3cm
yellow plates; cerussite. Also pyromorphite, calcite,
arag., dolomite.

3 281 wulfenite; cerussite in geodes in galena,
sometimes assoc. with wulfenite. Vanadinite,
various colours.

JEBEL SIROUA

Morocco.

cf Bou TAZOULT (17T)

MA 6 369 ca 120 km SSE of Marrakesh.

Mn ones, including coronadite, in
radius of 25-30 km of Jebel Siroua.

KERROUCHER,

Atlas Mts Morocco

Min Record (1979) 10 [2] 123. Azurite

well-termin., blocky, single xls
→ 3 x 1 cm. [cf 79-63]

KETTARA MINE, Jebilet, Morocco

See also TABOUCHENT

14 Q

MA 12 480 Chalcanthite efflorescences
in the pyrite, limonite etc mine.

Map: just N of Marrakech.

KHENEIGATE RICH, A Morocco.

MA 17 655. Allevardite - mixed-layer
silicate; swells with glycerol or
glycol

KHENIFRA, Moyen Atlas Morocco.

MA 8 329 Metasomatic haematite - baryte
deposits

1986 Mineral Show, Bakewell.

Azurite on malachite, KHENIFRA,
Moyen-Atlas

LOUIS GENTIL

Morocco

See also EL BOROU (18N)

Min Ude H-K. Carnotite, in fissures of
"bancs calcaires" in phosphatic formations

MIBLADEN, nr-Midelet, Atlas, Morocco
26 W

v. v.g. Vanadinite ; v.g. cerussite ;
baryte (pink)

MIDELT, Atlas, Morocco 26 N

See MIBLADEN

M-ZALA-BOU-CRICHA

Morocco

MA 15 393 Ullmannite

OUEZZANE

MOROCCO.

MA 12 203 Celestine, $1\frac{1}{2}$ cm x 15 in a
rocky band in marls in the Ouezzane
area.

OWED AKRESCH, Rabat, Morocco.

MA 4, 46. 15 km SSW of Rabat. Pyrolusite

OUICHANE, N.E. Rif, Morocco

MA 15 487. Pyrite, fine xls, 1-3cm.

OUJDA
OU DJDA
(OU DIDA)
(UJDA)

(nr Algerian border) Morocco.

36 F

See ~~JO~~ JEBEL MAHSEER; TOU ISSIT.

MA 3 208. Oudidg: Wulfenite, tabular, honey yellow
xls 1cm across, with crust of greenish
indistinctly x line pyromorphite. Vanadinite
[Probably Jebel Mahser, q.v.] [cf 79-62]

MA 4 46 Oudjda (Ujda): galena.

RWB Cat. Wulfenite vg yellow clusters of tab.
xls. Touissit, nr Oujda [nr Zellidja
[SE of Oujda]]

OULMÈS,

Morocco

21K

MA 3,444. Molybdenite, wolframite.

MA 3,281. Cassiterite

MA 10 229 150 km E of Casablanca. Small
deposit of cassiterite, wolframite, ferberite
scheelite. Economic

RAR-EL-ANZ, Wadi Cherrat, Morocco.

Map O. Cherrat 18 I

MA 2, 185. "Rar-el-Anz" (Cavern of the goat), in W. Cherrat, E of Casablanca, has chalcostibite $Cu_2S \cdot Sb_2S_3$ as the ore in a vein in dol. l'st. Aggregs of large ($9 \times 4 \times 1$ cm) tabular rectang xls often part. alt'd $\rightarrow$ azurite & malachite. Associated are water-clear dolomite xls.

MA 3 444 Ghar-el-Anz. chalcostibite, stibnite, magnetite, pyrite, chalcopyrite, blende, bornite, arsenopyrite, smithsonite, baryte.

ROC-BLANC

MOROCCO

MA 15 393

Pyrrargyrite



REHAMNA

Morocco

See also JEBEL MAHSEB

MA 3, 281. Wulfenite.

SIDI BOU OTMANE, Jebilet Morocco.

See also AZÉGOUR

15Q

MA 3 368 "genevite" - new mineral, small grey
tetrag. prisms in limestone

MA 5 292 "genevite" = "Duparcite"

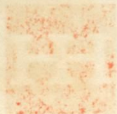
MA 8 251 "genevite" = "Duparcite" = var. of idocrase

MA 12 203 Columbite xls in pegmatites

RSWB coll. Sicklerite brown massive

SIDI RAHAL, Morocco.

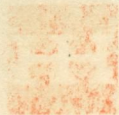
MA 15 393 Prehnite



TABOUCHENT, Jebilet, Morocco.

See also KETTARA MINE

MA 12 480 Wulfenite, thin tabular;
small xls mimetite



Anti-Atlas

TACHGAGALT MINE, Ouarzazate, Morocco
18 U (I)

MA 16 546. 17 km SSW of Ouarzazate, Anti-Atlas.
Mn vein deposits, with calcite, baryte,
hausmannite, braunite, polianite,
crednerite, and marokite, new mineral
 CaMn_2O_4 , shiny black platy xls up to
 $5 \times 1.5 \times 0.5 \text{ cm}$

MA 17 76 Gaudetfroyite, new min. $8\text{CaO} \cdot 3\text{Mn}_2\text{O}_3 \cdot 3\text{B}_2\text{O}_3 \cdot 2\text{CO}_2$
sheaves of black xls, hexag. prisms capped by pyramids
up to 5 cm long, with calcite in a vein. [Contd.]

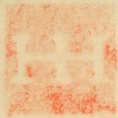
TACHAGALT MINE, Anti Atlas, Morocco (II).

MA 17 399. Jouravskite, basic Ca Mg
sulphate, carbonate & oxide. Yellow or
greenish orange, hexag. 3 good
cleavages; assoc. with calcite,
manganite, marokite, gaudfroyite.

TAZENAKHT, Anti-Atlas, Morocco.

17v

MA 12 577. Near Tazenakht, pegmatites
worked for beryl, have xls of
columbite & of tapiolite (up to $2\frac{1}{2}$ kg!)



TIGGERT, Tadla, Central Morocco.

MA 12 479 Wulfenite, tabular xls in
geodes in dolomitic rock, at Tiggert
in the Tadla.



TITTAOUNINE,

MOROCCO,

~~See also JEBEL MAMSER~~

MA 3, 281. Vanadinite, of various colours

Map Tattouine, 26N, S of Midelt

TOUJSSIT M., Nr. Oujda, Morocco. 36G

RWB Cat. 1979. RSWB 79-62 Wulfenite, vg
clusters of yellow tablets.

Min Rec. (1980) 59-61; 113-4. Superb azurite
xls $\rightarrow$ 12 cm, from a big pocket. As
good as Tsumeb specimens. On
Algerian border. Wulfenite; white pyromorphite
 $\rightarrow 3/4"$; dolom xls $\rightarrow 1"$; cerussite xls $\rightarrow 2"$;
malachite; massive cuprite; vvg anglesite
xls, (gemmy) $\rightarrow 3$ cm. galena, py, chalcophy
Working Pb/Zn mine.

TUIREF,

Morocco

Swob coll: 67-226 Cerussite, large xl.

coll & pres by J. Duhovnik

UJDA, Morocco

See OUDJDA

WADI CHERRAT, MOROCCO.

See RAR-EL-ANZ

MINES ON MOROCCO MAP, INDEX. [Nearest place-name]

Agoultine (Mn) 23 S
 Âit-Labbès (Pb) 270
 Âit-Sebbâit (Pb, Zn) 31 P
 Al Hoceima (Pb) 29 D
 Anou-Ichou (Mn) 23 T
 [Aouli] (Pb) 27 M
 Arbalou (Mn) 15 T
 [Argana] 10 U
 Arhbar 18 V
 Atchana (Pb) 29 P
 Azadour (Cu) 13 S
 [O. Azreg] 28 L
 [Azrou] 24 K
 Bab-Bou-Idir (Pb) 28 H
 Bades (Pb) 28 D
 Beni-Bou-Yafroun (Fe) 32 D
 Beni-Tajjite (Pb) 30 P
 [Bigoudine] 10 U
 Bir Defla (Fe) 20 L
 Bouârfâ (Mn) 36 O
 Bou-Azzer (Co) 18 V
 Bouiniba (P) 19 M
 Bou-R'Sass (Pb) 24 N
 Bou-Skour (Cu) 20 U
 Bou-Tazoult (? Mn) 17 T
 ↗ Cosualidad (Pb) 29 D
 ↗ Checran (Pb) 29 E
 Dar-Bouâzza (Pb) 28 H
 EL-Arba-Taourirt (Pb) 29 E
 EL-Borj (Mn) 17 U
 EL-Borj (Mn) 17 V
 [EL-Borouj] 18 N
 EL-Hammam (F) 23 J
 EL-Karit (Sn) 21 K

EL-Ksiba (Pb) 22 N
 Erdouz (Pb, Zn) 13 T
 Es-Sebt (Pb) 9 X
 ET-Tnine-Gantour (P) 130
 Fnideq (Sb) 24 A
 Foum-Tizi (P) 19 M
^{Massi} Irhoun (Ba) 12 P
 Irhtem (Cu) 19 V
 Isserdrer (Ba) 17 R
 [Jbel bou Dahar] (Pb) 31 P
 [Jbel Mahssor] (Pb) 36 G
 Keba (Pb) 27 Q
 Kettara (Fe) 14 Q
 Khaloua-Satour (Fe) 20 I
 Khouribga (P) 19 M
 Masser-Amane (Sb) 23 K
 Medinette (Fe) 21 I
 Merouane (Pb) 23 S
 Mibladen (Pb) 26 N
 [Midelt] 26 N
 [Missour] 28 L
 M'Koussa (Mn) 18 P
 Morhel (Pb) 31 P
 ↗ Moulouya (Pb) 25 M
 ↗ Moulay-Bouâzza (Pb) 21 K
 [Mrirt] (Pb) 23 L
 [Nador] 32-33 D
 [O. Azreg] 28 L
 [Oujda] 36 F
 [Oulmès] (Sn) 21 K
 [Ourzazate] 18 U
 Pont-Martin (Sb) 21 L
 Riffien (Cu) 24 A
 Sidi-bou-Hamrit (Mn) 23 K
 [Sidi-bou-Othmane] (Zn, Pb) 15 Q
 Souk-el-Tnine (P) 20 M
 Tabia-Âit-Zarhal (Salt) 19 S

Tachgagalt (Mn) 18 U
[Tamdafelt] 28 M
Tamgra (Mn) 17 V
Tamora (Mn) 17 U
Taourirt (Cu, Mn) 14 U
[Taourirt] (Mn) 33 G
Taourirt, El-Arba- (Pb) 29 E
Tarihilest (Fe) 34 H
[Tarmilate] (Sn) 21 K
[Tazenakht] 17 V
Tazensout (Pb) 27 M
Tdikel (Mn) 11 Y
Tifelouest (Pb) 27 F
Timmerdoudine (Sb) 22 M
Timkit (Mn) 17 T
[Tiouine] (Mn) 17 U
Tiouit (Cu) 22 T
Tisgui-Lilane (Mn) 18 U
[Tisrarine] (Salt) 8 S
Tissa (Salt) 27 G
Tizirhine (Fe) 31 D
Tnine-Inane Bouih 12 P
Touissite (Zn, Pb) 36 G
Tourtit (Sb) 23 K
Youssoufia (P) 13 O
[Zeida] (Pb) 25 M
[Zellidja] (Pb) 36 G

Bull Soc Min (1956). 183-191

Morocco.

Azegour, Haut At de Marrakech.

S/T 13

p186 Scheelite, stéphan, pyrrarg, argent, maucher, Nat Bi
garnet amphib F py molybden, gersdorff from

p187

Irhtem, Bou Azz Co mine

V19

xls Magnet-Ni + haem xls.

xlred antigor.

Tiguelilt
(Haut At. Centrale).
in pol sect'n of Aspy
w. cupy, marc.

187-8

Sidi Bou Othmane (Jebilet) pegs : Niobite, perthite.

Q15

Tazenakht & Iguerda. Tantalite, niobite, tapiolite.

Tazenakht - lölling in peg at Angarf-Nord I

& in veins in granite at Timharhrine & Tasrirt

V17

Tadaout nr Taouz, SE Morocco.

U28

big area
near Q15

Vanad xls & clusters.

nr M'fis (cf)

Jebilet wulf & Mimet

p189 Vim43 of Bachkouzn, S Maroc. Hollandite, big xls

Midelt, Haut At - vermiculite - at Jebel Bou Ifouloussène (Region
of Anemzi-Tounfit)

p189-190
L24 El Hammam, Central Morocco, metam ~~at~~ l'st w
andrad, datol, apoph ax

Plateau of Rehamna - in schist, kyanite xls $\rightarrow$ 10 cm.

p190 Ouezane (near) $\rightarrow$ centred on N 14. ~~vast~~
large area

Fluor; Ca; celest; prehnite $\rightarrow$ in an altd doler

E24
 $\downarrow$ clear xls to 40 cm [!!]
clear green & blue $\rightarrow$ 8 cm

small xls. also
Mg-tourmal (yellow)
crs. w. dolom pyrite
& a clear chlorite

Taounate (F27)

Dipyre, prismatic xls $\rightarrow$ 2.5 cm

Key: Scapol = Mizzon, intern bet Meiron & Marra

p191 Tagnaneit Moyen-Atlas.

Arag, ψ -hex prisms ~~2x3~~ 2x3 cm

Bou L'Baroud, Anti-Atl-Occid. Pb mine w. v.g
rh'ed xls Calcite