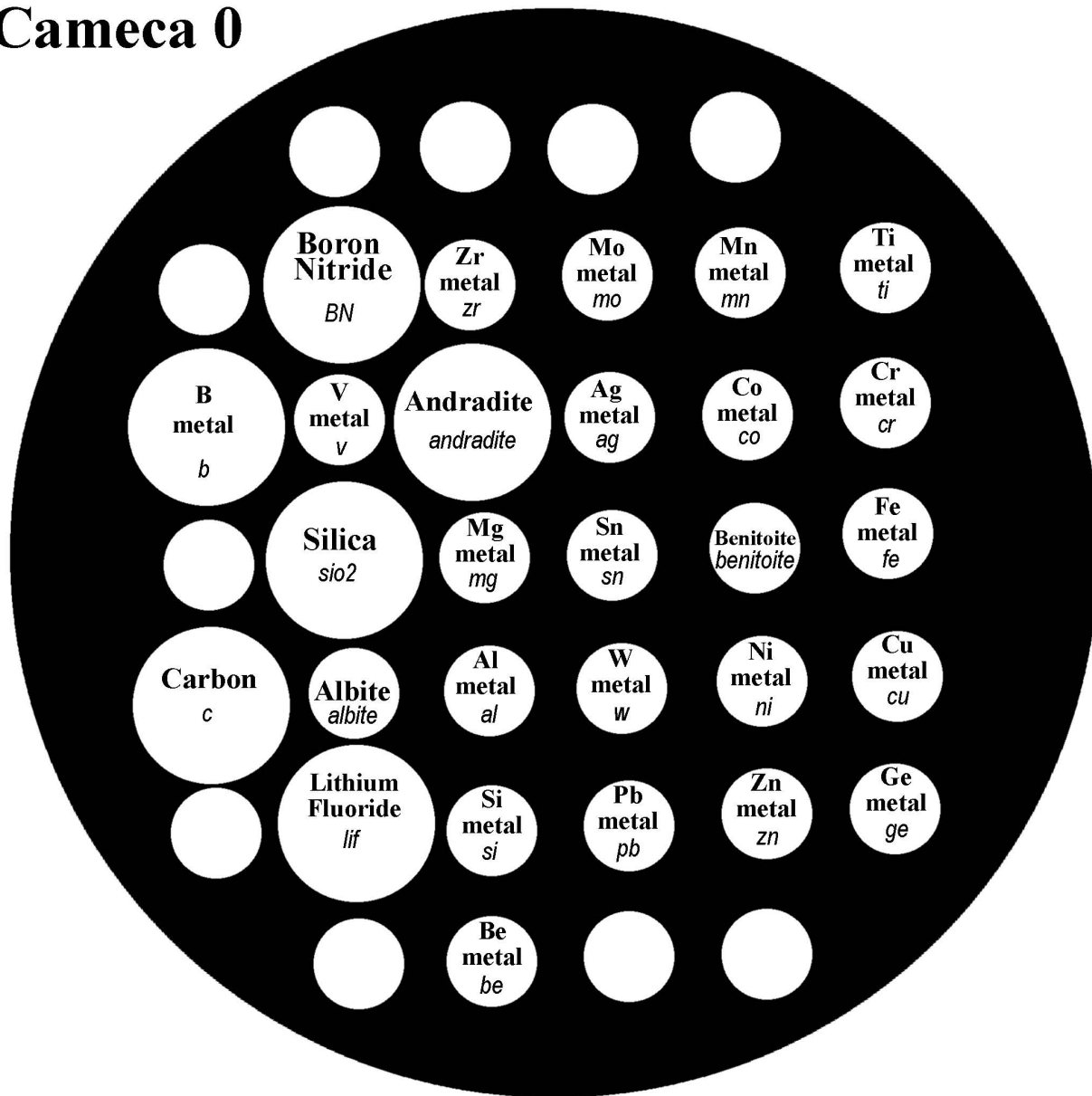
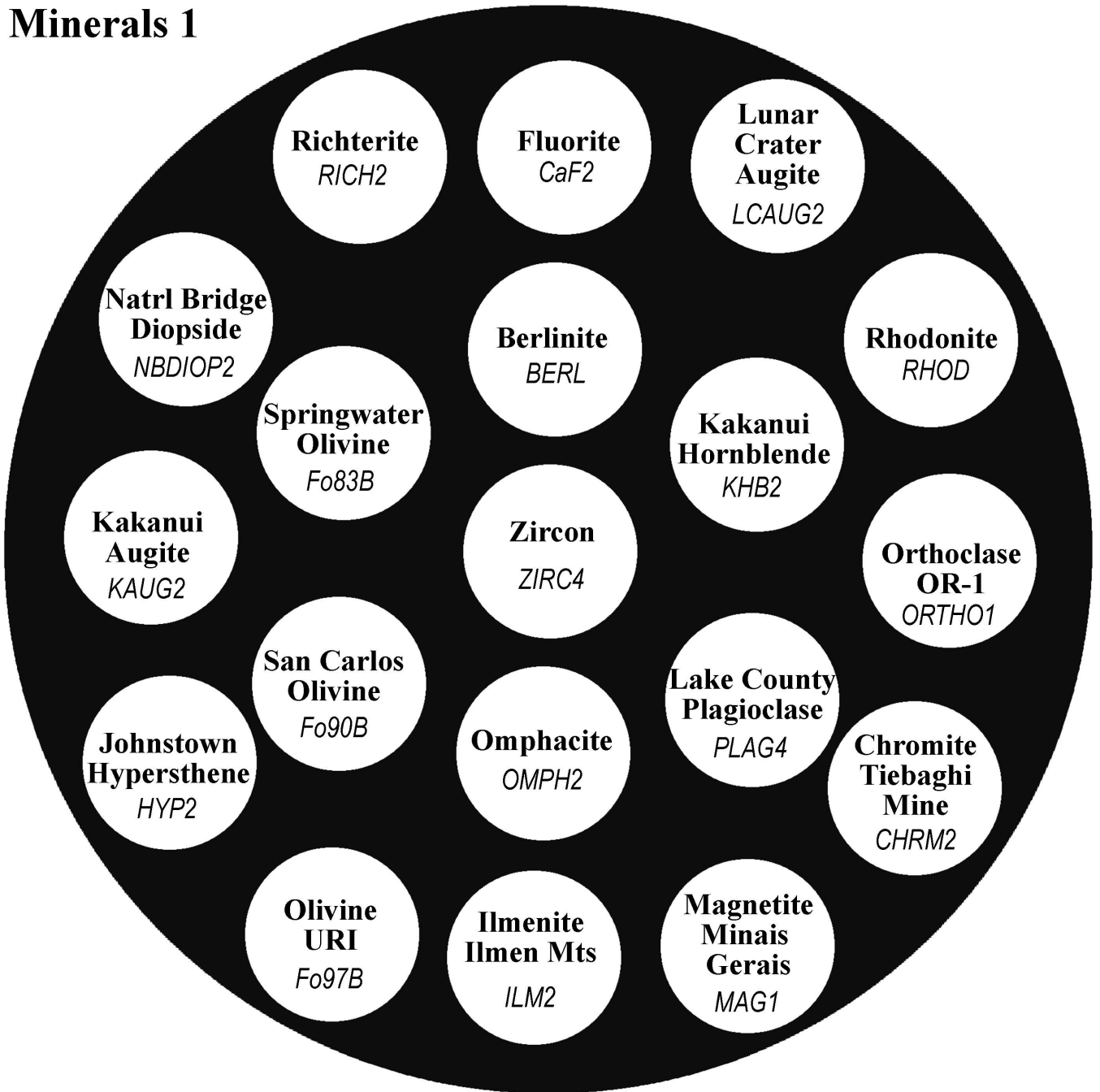


Cameca 0



Minerals 1



Minerals 2

**Wilberforce
Apatite**
WAPA2

**San Carlos
Augite
(A209)**
CPX

**Scapolite
R6600**
SCAP

**Rockport
Fayalite**
FAYA

**Kakanui
Pyrope**
PYR2

**Garnet
RVM**
GARN

**Durango
Apatite**
DAP2

**Wakefield
Diopside**
WDIOP

**Amelia
Albite**
AM_ALB2

Zircon
ZIRC5

**Kakanui
Anortho-
clase**
KANOR

**Magnetite
395**
MAG395

**Dolomite
R10057**
DOLO2

**Great Sitkin
Anorthite**
ANOR2

**Microcline
143996**
MICR2

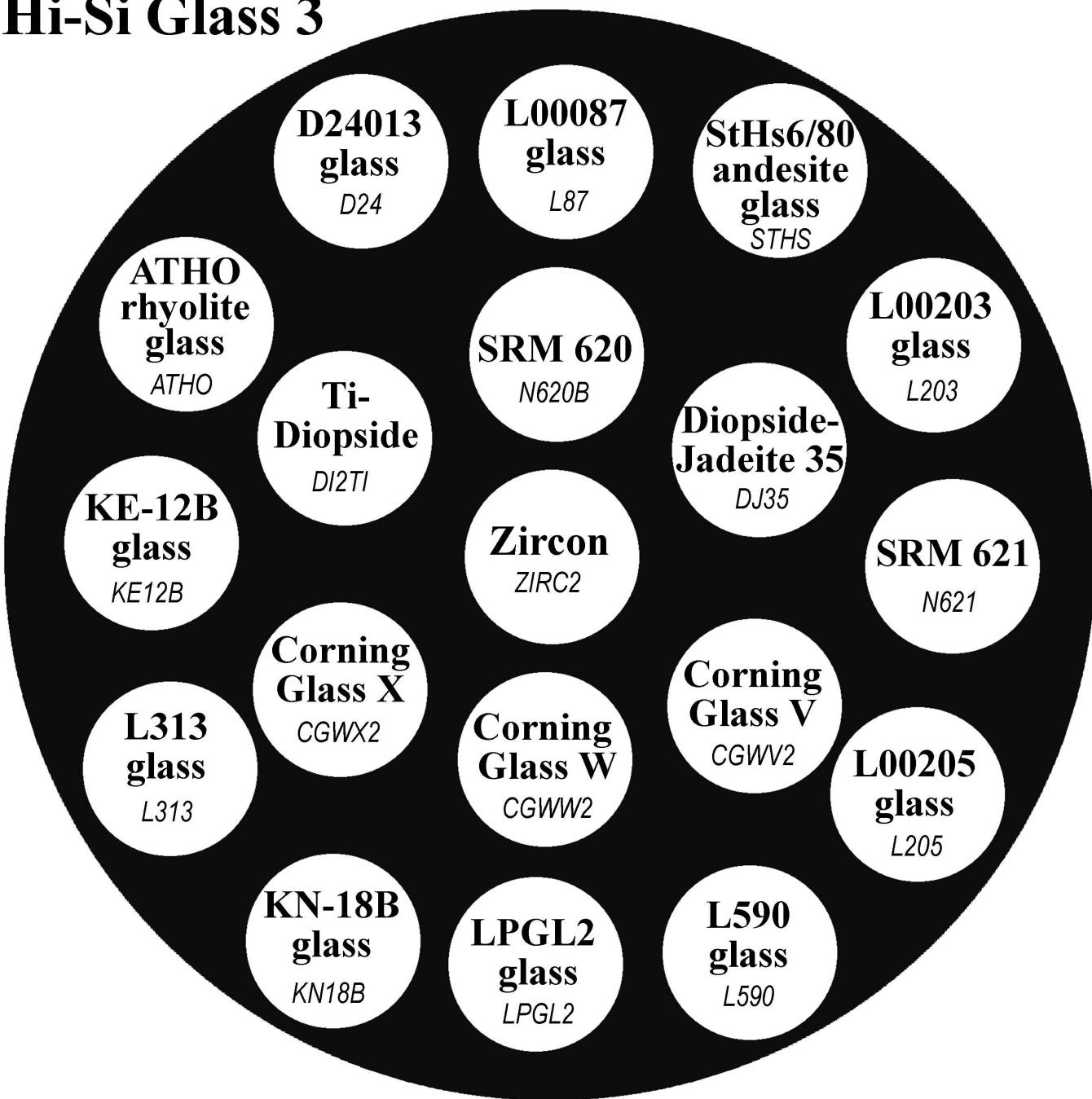
**Arenal
Hornblende**
ARHB2

**Quartz
R17701**
QTZ

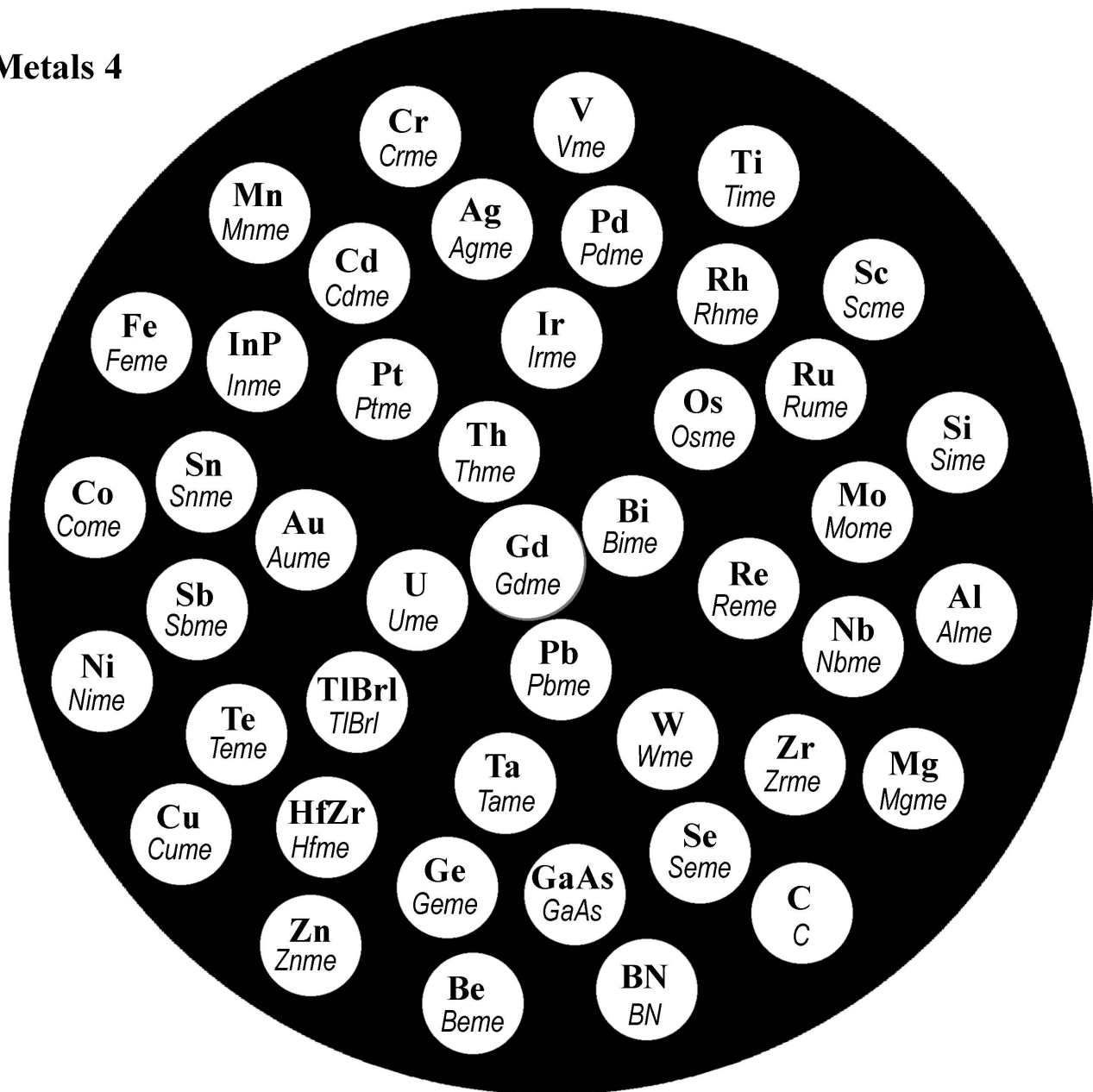
**Staunton
Troilite**
TROI

Rutile
RUTL2

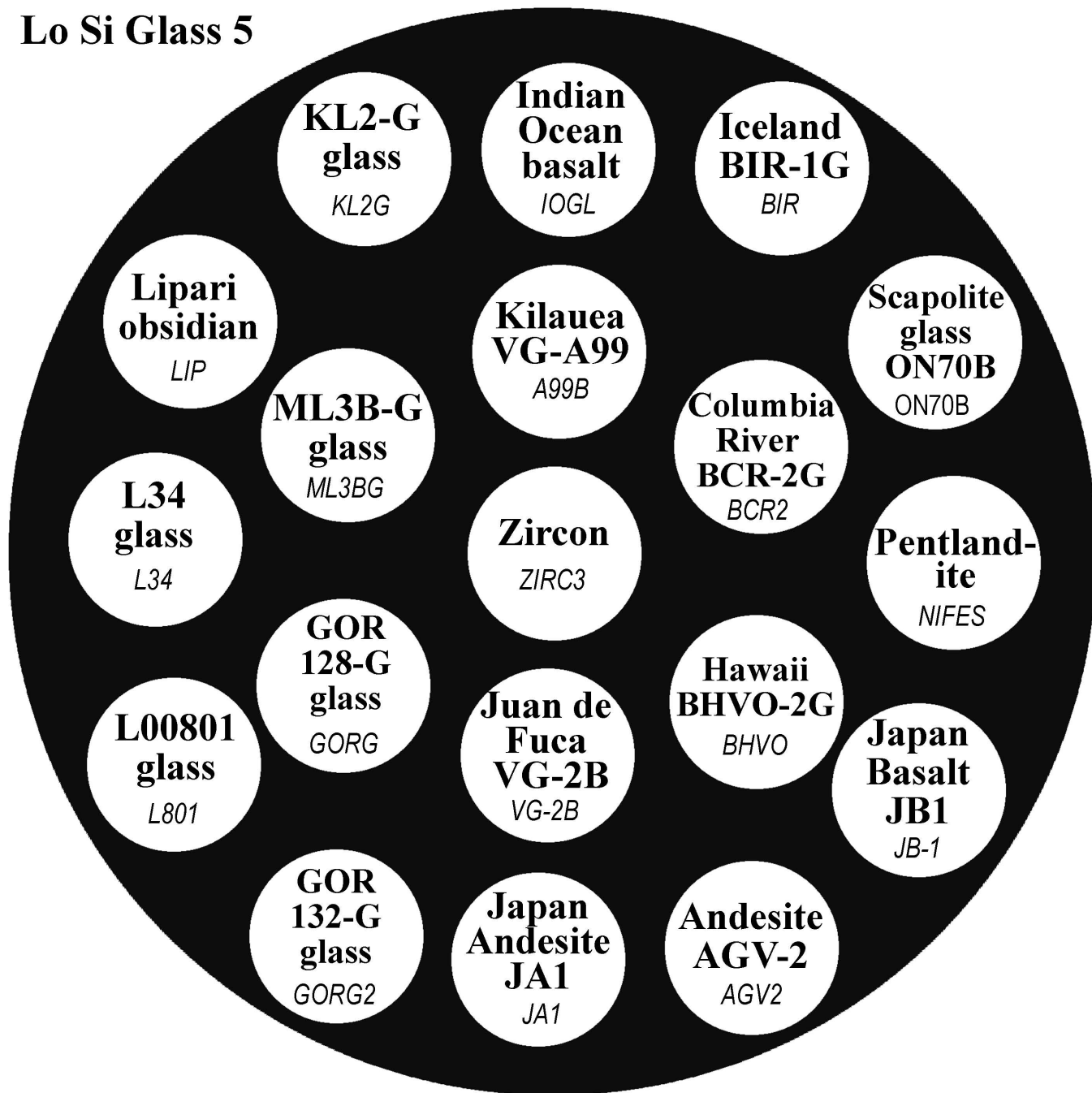
Hi-Si Glass 3



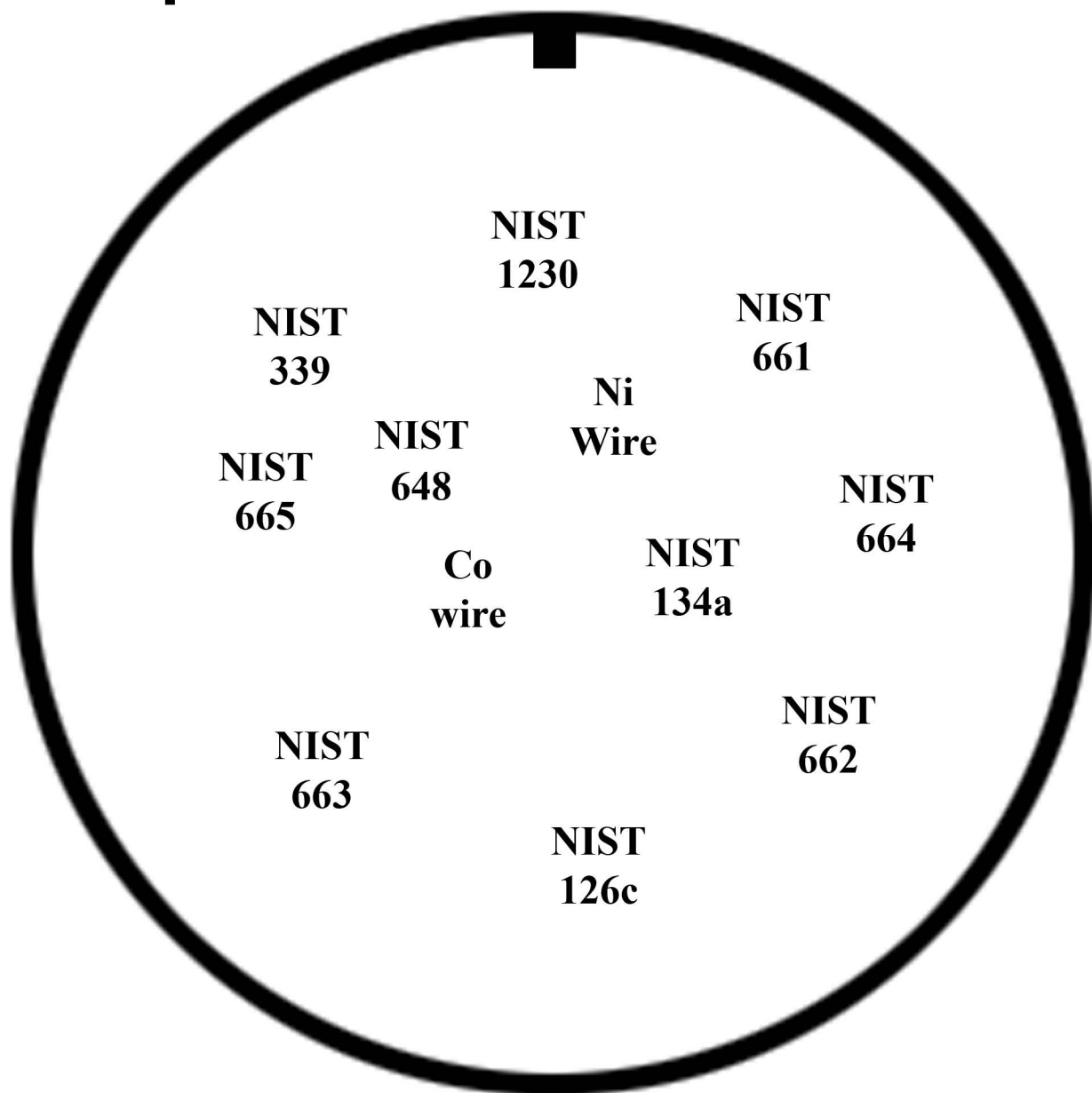
Metals 4



Lo Si Glass 5



Siderophiles 6



Meteorites 7

For LA-ICPMS
or microprobe

**Canyon
Diablo
troilite**

CDTROI

**Canyon
Diablo
Metal &
Schreibersite**

CDMTL

CDSCHR

**North Chile metal
(Filomena)**

NCFMTL

metal, sulfide
& phosphide

Minerals 8

**Great Sitkin
Anorthite**
ANOR

**Kakanui
Pyrope**
PYR

**Kak. Anor-
thoclase**
KANOR2

**Durango
Apatite**
DAP

**Natural
Bridge
Diopside**
NBDIOP

**Lunar
Crater
Augite**
LCAUG

**Johnstown
Hypers-
thene**
HYP

**Kakanui
Augite**
AUG

**Lake
County
Plagioclase**
PLAG

**Lead
Selenide**
PbSe

**Zinc
Sulfide**
ZnS

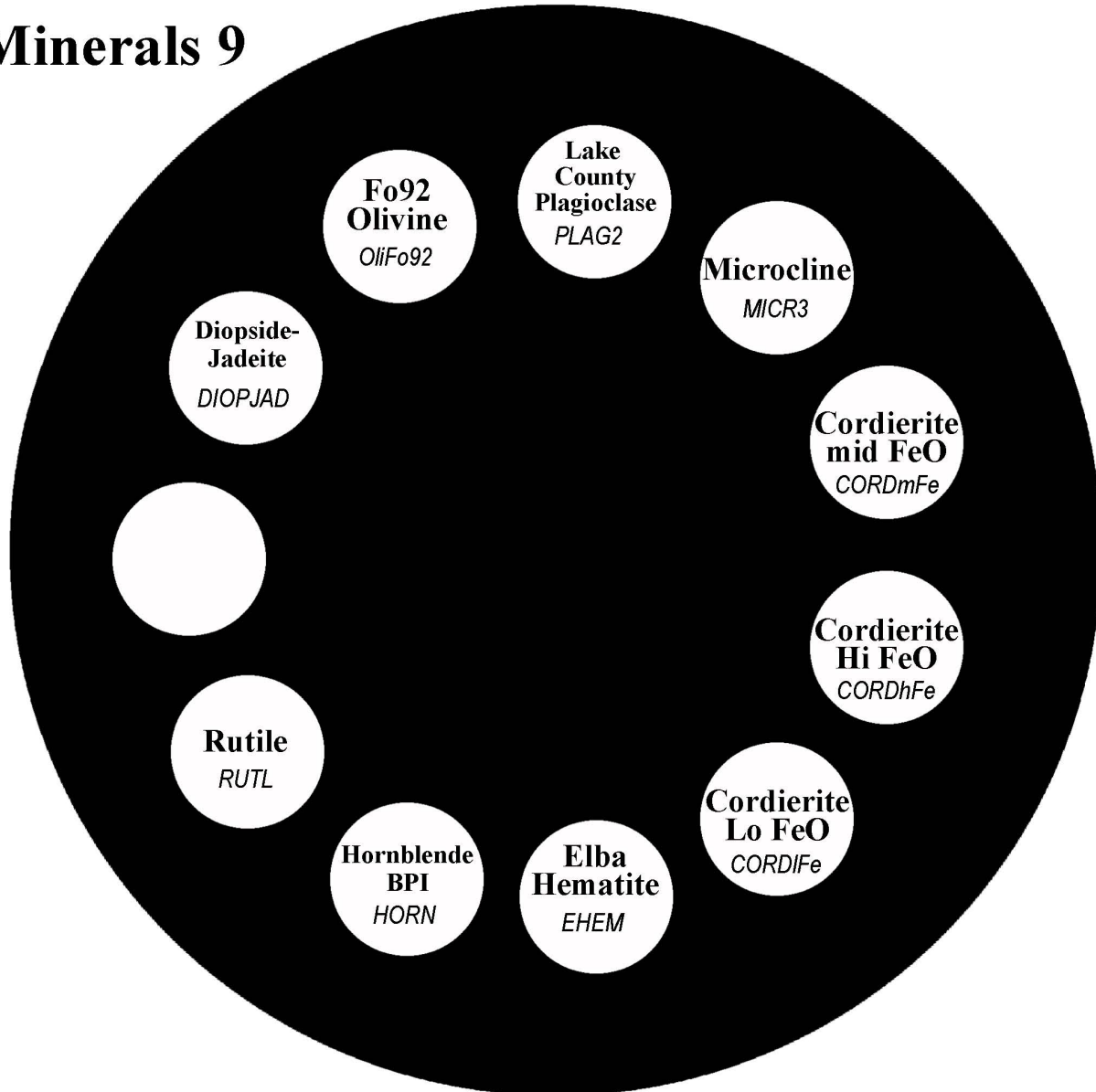
Microcline
MICR

**Silver
Telluride**
AgTe

Staunton Troilite
TROI2

SRM 620
SRM620

Minerals 9



Glasses 10

**Kilauea
VG-A99**
A-99

**Juan de
Fuca
VG-2B**
VG-2B2

**Japan
basalt
JB1**
JB1

**D08
glass**
D08

Richterite
RICH

Zircon
ZIRC

SRM 620
SRM620_2

**Scapolite
glass ON70**
SCAP_URI

**KE-12B
glass**
KE-12B

**KN-18B
glass**
KN-18B

**D612
glass**
D612

**VG-D64
glass**
VG-D64

**Wilberforce
Apatite**
WAPA

**Corning
Glass W**
CGW-W

**Corning
Glass X**
CGW-X

**Corning
Glass V**
CGW-V

Minerals 11

Fluorite

FLUOR

**Lake
County
Plagioclase**

PLAG3

**Amelia
Albite
AM_ALB**

**Orthoclase
OR-1
ORTH**

**Ilmen Mts
Ilmenite
ILM**

**Spessartine
SPESS**

**Arenal
Hornblende
ARHB**

**Kakanui
Hornblende
KHB**

**Omphacite
OMPH**

**Ti-Diopside
Ti-DIOP**

**Natural
Bridge
Diopside
NBDIOP3**

**Tiebaghi
Mine
Chromite
CHRM**

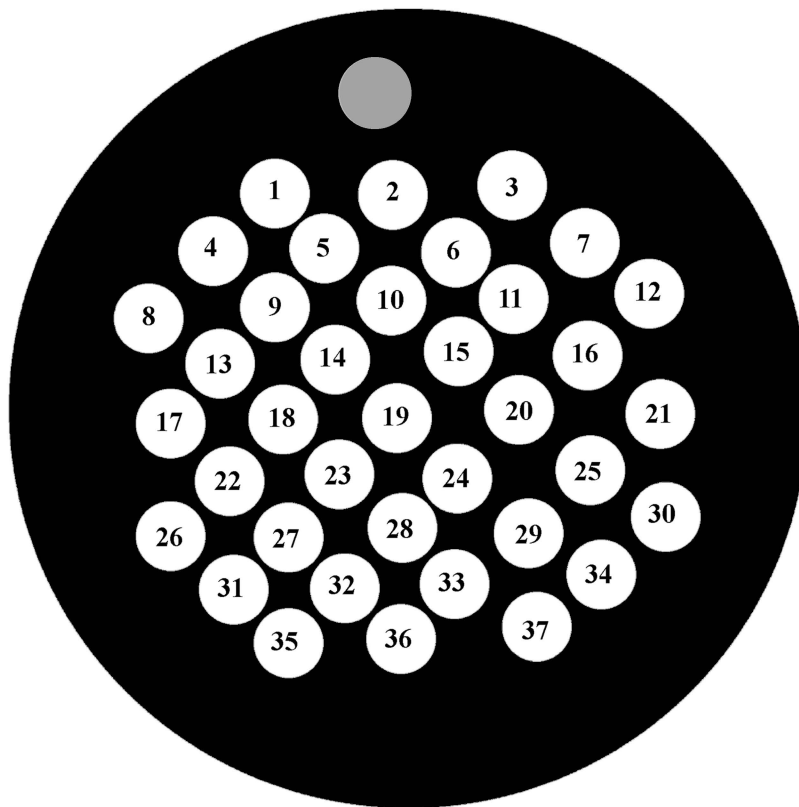
**Rockport
Fayalite
FAYA2**

**Spring-
water
Olivine
Fo83A**

**San Carlos
Olivine
Fo90A**

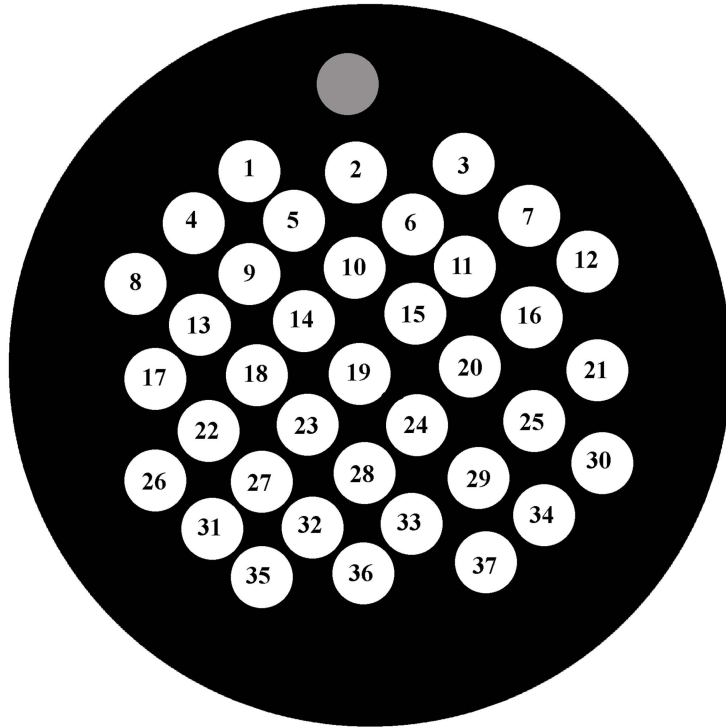
**Olivine
URI
Fo97**

Minerals 12



- | | |
|---|-----------------------------------|
| 1 Al ₂ O ₃ - synthetic | 25 Wulfenite - Mexico |
| 2 MgAl ₂ O ₄ - synthetic | 26 Willemite - NJ |
| 3 Periclase | 27 Microcline - Madawaska, Canada |
| 4 Forsterite - Fo100 | 28 Kilauea Pahoehe JSB |
| 5 HfSiO ₄ - ORNL | 29 Olivine - North Carolina |
| 6 Corundum - NMNH 135602 | 30 Galena |
| 7 Zircon - NMNH 117288-3 | 31 Adamite - Mexico |
| 8 Gahnite - NMNH 145883 | 32 Fayalite - Forsythe |
| 9 Pyrite - JSB | 33 Augite - Ontario |
| 10 Eagle Station Olivine | 34 Stilbite - NJ |
| 11 MgCr ₂ O ₄ - synthetic | 35 Forsterite - Rutgers |
| 12 Quebec Olivine | 36 Prehnite - NJ |
| 13 Tiburon Albite | 37 Enstatite - Alfa Aesar 42638 |
| 14 Hornblende - BCC12 | |
| 15 Lunar Crater Augite
NMNH 164905 | |
| 16 Ni-Diopside | |
| 17 Benitoite | |
| 18 Diopside - Tsumeb | |
| 19 Enargite - Butte, MT | |
| 20 Albite - Bancroft, Ontario | |
| 21 Moldavite - Ries Crater | |
| 22 Descloizite - AZ | |
| 23 Diopside - Madagascar | |
| 24 Psilomelane - Mexico | |

Minerals 13



- 1 ScPO₄
- 2 YPO₄
- 3 LaPO₄
- 4 CePO₄
- 5 PrPO₄
- 6 NdPO₄
- 7 SmPO₄
- 8 EuPO₄
- 9 GdPO₄
- 10 TbPO₄
- 11 DyPO₄
- 12 ErPO₄
- 13 HoPO₄
- 14 TmPO₄
- 15 YbPO₄
- 16 LuPO₄
- 17 AlPO₄
- 18 Fluorite - CaF₂
- 19 Benitoite
- 20 Wilberforce Apatite

- 21 REE1 Glass
- 22 Scapolite 17120
- 23 Barite - BaSO₄
- 24 VG568 Rhyolite Obsidian Glass
- 25 Calcite - CaCO₃
- 26 Strontianite - SrCO₃
- 27 Siderite -FeCO₃
- 28 Cerrusite - PbCO₃
- 29 Dolomite -(CaMg)CO₃
- 30 NiSe
- 31 BaO-ZnO silicate glass 963 - many trace elements
- 32 BaO-ZnO silicate glass 489 - few trace elements
- 33 BaO-ZnO silicate glass 458 - no trace elements
- 34 T1G Quartz Diorite Glass
- 35 UTR-2 Glass
- 36 Alvin MORB 1690-20 Glass
- 37 Silver chloride - AgCl