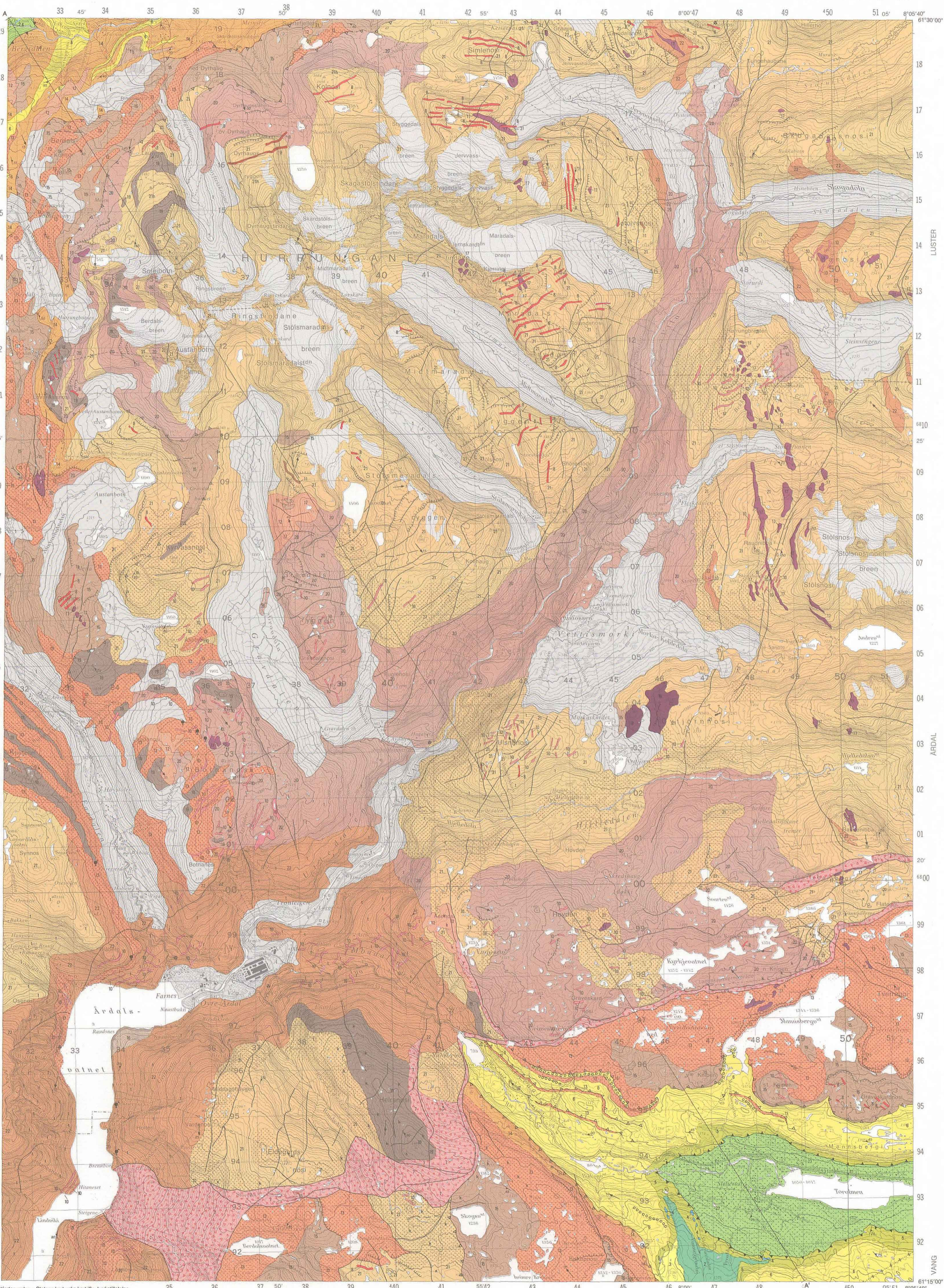


# HURRUNGANE

NORGES GEOLOGISKE UNDERSØKELSE

1517 IV

BERGGRUNNSKART 1:50 000



## TEGNFORKLARING

### Legend

#### LØSMASSER AV KVARTÆR ALDER

##### Quaternary deposits

1 MORENE, GRUS, SAND, FASMASTRIALE  
Moraine, gravel, sand, talus

#### OVERSKJØVNE BERGARTER

##### Allochthonous rocks

JOTUN-VALDRESEDEKKEKOMPLEKSET, PREKAMBRISKE OG KAMBROSILURISKE BERGARTER SKJØVET UNDER DEN KALEDONISKE FJELLKJEDEDANNELSEN  
Jotun-Valdres Nappe Complex, Precambrian and Cambro-Silurian rocks thrust during the Caledonian orogeny

TYEFORMASJONEN, OMDANNETE SEDIMENTÆRE BERGARTER AV KAMBROSILURISK ALDER(?)  
Tya formation, sedimentary rocks of Cambro-Silurian age

2 FYLLITT  
Phyllite

3 KVARTSITT  
Quartzite

4 KALKSPATMARMOR  
Calcite marble

5 UENSARTET GNEIS, KVARTSITT OG GLIMMERSKIFER  
Heterogeneous gneiss, quartzite and mica schist

6 VALDRESFORMASJONEN, OMDANNETE SEDIMENTÆRE BERGARTER AV ANTATT SENPREKAMBRISK ALDER  
Valdres formation, sedimentary rocks of assumed Late Precambrian age

7 META-ARKOSE MED KONKLOMERAT ("VALDRES-SPARGMITT")  
Meta-arkose with conglomerate ("Valdres-spargmitt")

8 JOTUNHEIMKOMPLEKSET, HØYMETAMORFE STØRKNINGSBERGARTER OG MIDDELS- TIL LAVMETAMORFE BERGARTER AV PREKAMBRISK ALDER  
Jotunheim Complex, high grade metamorphic intrusive rocks and medium to low grade metamorphic rocks of Precambrian age

9 OPPKULST BERGART (KATAKLASITT, HOVEDSAKLIG REKONSOLIDERT)  
Cataclastic rock (mostly reconstituted)

10 OPPKULST BERGART (KATAKLASITT) AV UKJENT OPPRINNELSE  
Cataclastic rock of unknown origin

11 PEGMATITT, GRANITISK SAMMENSETNING  
Pegmatite, granitic composition

12 AFLITT, SYENITISK SAMMENSETNING  
Aplite, syenitic composition

13 GRANDIORITT, GRANDIORITT I TYNNE GANGER, I (INTRUSJONSALDER CA. 887 MILLJONER ÅR)  
Granodiorite, granodiorite in thin dykes, I (age of intrusion ca. 887 million years)\*

14 DIABAS  
Diabas

15 GRANITISK GNEIS  
Granitic gneiss

16 SYENITISK GNEIS, MYLONITISERT SYENITISK GNEIS (ALDER CA. 1680 MILLJONER ÅR)  
Syenitic gneiss, mylonitized syenitic gneiss (age ca. 1680 million years)\*\*

17 GRØNN GNEIS, MYLONITISERT METAVULKANITTER OG METASEDIMENT ALDER UKJENT  
Green gneiss, mylonitized metavolcanics and metasediments of unknown age

18 GABBRO OG METAGABBRO, STELVIS MED OPTISK TEKSTUR  
Gabbro and metagabbro, partly with optical texture

19 LEUKOGABBRO  
Leucogabbro

20 ULTRAMAFISK BERGART, HOVEDSAKLIG PYROKSENERIODITT  
Ultramafic rock, mainly pyroxene peridotite

21 LAGDELT ULTRAMAFISK BERGART  
Layered ultramafic rock

22 GRANITAMFIBOLITT, MØRK AMFIBOLITT  
Garnet amphibolite, dark amphibolite

23 AMPHIBOLITT SOM HOVEDSAKLIG ER OMDANNET PYROKSENGRANULITT  
Amphibolite, mainly retrograded pyroxene granulite

24 PYROKSENGRANULITT, STELVIS MED PRIMER HORNBLENDE, h. ALDER: CA. 1678 MILLJONER ÅR\*\* PYROKSENGRANULITT, DELVIS OMDANNET (RETROGRADERET)  
Pyroxene-granulite, partly with primary hornblende, h. (age: ca. 1678 million years\*\*\* Pyroxene-granulite, partly retrograded\*\*

25 MØRK PYROKSENGRANULITT, MAFISK GNEIS  
Dark pyroxene-granulite, mafic gneiss

#### STEDEGNE ELLER NÆR STEDEGNE BERGARTER

##### Autochthonous or parautochthonous rocks

#### SEDIMENTÆRE BERGARTER AV KAMBROSILURISK ALDER

##### Sedimentary rocks of Cambro-Silurian age

#### VALDRESFORMASJONEN

##### Vang formation

26 FYLLITT, HOVEDSAKLIG GRAFITISK  
Phyllite, mainly graphitic

27 FORTUNIFORMASJONEN  
Fortun formation

28 FYLLITT, HOVEDSAKLIG GRAFITISK  
Phyllite, mainly graphitic

#### GEOLOGISKE SYMBOL

##### Geological symbols

BERGARTSGRENSE, TOLKET BERGARTSGRENSE  
Lithological boundary, interpreted lithological boundary

MYLONITISK SONE  
Mylonitic zone

SKYVEFORKASTNING INNEN JOTUN-VALDRESEDEKKEKOMPLEKSET  
Thrust fault within the Jotun-Valdres Nappe Complex

SKYVEFORKASTNINGEN UNDER JOTUN-VALDRESEDEKKEKOMPLEKSET  
Thrust fault at base of Jotun-Valdres Nappe Complex

KATAKLASTISK SONE, FORKASTNING, FORKASTNINGSSONE, SPREKK  
Cataclastic zone, fault, fault zone, joint

FOLIASJON MED PLANETS HELNING ANGITT (15° MOT NN, LODDRETT FALL = 90°)  
Foliation with dip value (15° towards NN, vertical dip = 90°)

FOLIASJON I KATAKLASITT (C) ELLER MYLONITISONE (M) MED PLANETS HELNING ANGITT (40° MOT SV, LODDRETT FALL = 90°)  
Foliation in cataclastic zone (C) or mylonitic zone (M) with dip value (40° towards SSE, vertical = 90°)

FOLDEKSE MED AKSENS STUPNING ANGITT (25° MOT NO)  
Fold axis with dip value (25° towards NE)

MINERALINNESJON MED LINJESAKSENS STUPNING ANGITT (10° MOT NO)  
Mineral lineation with dip value (10° towards NE)

PROVETAKINGSSTED FOR RADIOMETRISK ALDERSBESTEMMELSE  
Sample locality for radiometric age dating

#### ERTSFØREKOMSTER

##### Ore occurrences

BORNITT, KOBBERGLANS, KOBBERKIS  
Bornite, chalcopyrite, chalcolite

GEDIGENT KOBBER, KUPPRITT  
Native copper, cuprite

SVOLEKES, MAGNETIS  
Pyrite, pyrrhotite

#### REFERANSER

##### References

\* Koestler, A.G. 1983: A Precambrian age for the Orkdal granodiorite intrusion, Central Jotun Nappe, Sogn, Norway. Norsk Geol. Tidsskr. 62, 225-228.

\*\* Schäfer, U. 1980: U-Pb and Rb-Sr dating of a polymetamorphic nappe terrain: the Caledonian Jotun Nappe, South Norway. Earth Planet. Sci. Lett. 49, 205-215.

\*\*\* Koestler, A.G. 1983: Zentral Komplex und NW-sandzone der Jotunheide, West-Jotunheimen, Suednorge. Doktoravhandling ETH Zurich.

Kartlagt av A.G. Koestler (1), J.A. Rosenhøj (2), T.H. Ruegg (3) og U. Schäfer (4) i åra 1977-1983, se kartlegging.

Sammenstillt av A.G. Koestler, sammenslingen avsluttet november 1983.

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Referanse til kartet: KOESTLER, A.G. -1989

HURRUNGANE 1517 IV, Berggrunnskart 1:50 000

Norges geologiske undersøkelse

#### KARTBLADINDELING

##### Location diagram

Diagram showing the location of the map sheet within the grid system.

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#### BRUK AV UTM RUTENETT FOR REFERANSEPUNKTER

##### Instruction in using UTM grid for reference points

SYMBOL	KRISTFERSE	STAVEL	TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METERS
32 V	100 km rate (10° N, 10° W)	MN	Read before identifying 100 000 meter meters in which the grid lies.
100 km rate (10° N, 10° W)	40 4		Locate first vertical grid line to left of point and read LARGE figure (bearing the line either in the top or bottom margin, or in the line itself). Estimate length from grid line to point.
100 km rate (10° N, 10° W)			Locate first horizontal grid line below point and read LARGE figure (bearing the line either in the left or right margin, or in the line itself). Estimate length from grid line to point.
100 km rate (10° N, 10° W)			SAMPLE REFERENCE
100 km rate (10° N, 10° W)			If reporting beyond 10° in any direction, prefix grid zone designator.
100 km rate (10° N, 10° W)			ENTER THE SMALLER figure of any grid number; these are the figures for full coordinates: the OTHER THE LARGER figure of the grid number.

#### Geologisk kartlagt av

1. Koestler, A.G.  
2. Rosenhøj, J.A.  
3. Ruegg, T.H.  
4. Schäfer, U.

Kartlagt i åra 1977-1983

Sammenstillt av A.G. Koestler

Sammenslingen avsluttet november 1983

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Reprograff: Norges geologiske undersøkelse  
Trykk: A/S Krossveien, Trondheim 1989

