DR# 2002106
Figure DR6. Histograms of SHRIMP U-Pb zircon dates for small granite body adjacent to a Velford pluton (N19.91) and Vega pluton (N00.07 and N00.13).
Table DR1. Summary of TIMS U-Pb zircon results.

<table>
<thead>
<tr>
<th>No.</th>
<th>Prop.</th>
<th>Wt. (mg)</th>
<th>U (ppm)</th>
<th>Pb (ppm)</th>
<th>Pb (ppg)</th>
<th>Measured</th>
<th>Atomic Ratios</th>
<th>Age (Ma)</th>
</tr>
</thead>
</table>
|     |       |          | rad     | tot. comm. | 206Pb/238U | 207Pb/206Pb | 206Pb/207Pb | 208Pb/238U | 206Pb/235U | +/-
|     |       |          |         |           | 207Pb      | 208Pb      | 209Pb      | 206Pb      | +/- | +/- | Phe | +/- |
| NZ-191 | abr | 0.38900 | 482.7 | 35.2 | 53 | 13780 | 0.1502 | 0.07009 | 44 | 0.5393 | 34 | 0.99 | 0.05580 | 3 | 496.7 |
| NZ-191 | abr | 0.78000 | 45.9 | 3.5   | 78 | 1887 | 0.1647 | 0.07084 | 42 | 0.5455 | 33 | 0.99 | 0.05585 | 6 | 441.2 |
| NZ-291 | abr | 0.41800 | 249.1 | 21.7 | 12 | 24703 | 0.3799 | 0.07048 | 34 | 0.5420 | 27 | 0.98 | 0.05583 | 3 | 439.0 |
| NZ-291 | abr | 0.13100 | 406.8 | 32.8 | 24 | 7735 | 0.2519 | 0.07144 | 34 | 0.5502 | 27 | 0.98 | 0.05586 | 5 | 444.8 |
| NZ-391 | abr | 0.38600 | 294.0 | 23.2 | 40 | 10628 | 0.2296 | 0.07117 | 33 | 0.5485 | 26 | 0.98 | 0.05589 | 6 | 443.2 |
| NZ-391(1) |     | 0.21400 | 299.3 | 23.5 | 14 | 12042 | 0.2428 | 0.07043 | 34 | 0.5429 | 27 | 0.98 | 0.05591 | 5 | 438.7 |
| NZ-391(2) | abr | 0.26200 | 269.3 | 21.6 | 10 | 17238 | 0.2433 | 0.07185 | 35 | 0.5537 | 29 | 0.97 | 0.05589 | 7 | 447.3 |
| N-87-06 |     | 0.06800 | 387.9 | 29.3 | 55 | 2003 | 0.1005 | 0.07478 | 37 | 0.5838 | 33 | 0.92 | 0.05662 | 12 | 464.9 |
| N-87-06 |     | 0.06800 | 357.4 | 26.4 | 25 | 5445 | 0.0961 | 0.07533 | 25 | 0.5879 | 21 | 0.97 | 0.05660 | 5 | 468.2 |
| N-87-06 |     | 0.66700 | 400.8 | 29.8 | 27 | 23666 | 0.0958 | 0.07452 | 29 | 0.5814 | 25 | 0.92 | 0.05658 | 10 | 463.3 |
| N-87-07 |     | 0.05500 | 433.7 | 33.8 | 51 | 2048 | 0.0697 | 0.07927 | 29 | 0.6380 | 29 | 0.90 | 0.05838 | 12 | 491.8 |
| N-87-07 |     | 0.03100 | 2406.8 | 177.8 | 58 | 5499 | 0.0649 | 0.07621 | 38 | 0.5962 | 32 | 0.97 | 0.05674 | 7 | 473.4 |

MSWD values were not calculated where only two fractions were analyzed.
### Table DR 2. Summary of SHRIMP U-Pb zircon results.

#### Sample N91. Contact granite adjacent to Akset-Drevli pluton.

<table>
<thead>
<tr>
<th>Grain.</th>
<th>U ppm</th>
<th>Th ppm</th>
<th>Th/U</th>
<th>206Pb/238U z</th>
<th>207Pb/235U z</th>
<th>208Pb/232U z</th>
<th>206Pb ± 206Pb ±</th>
<th>207Pb ± 207Pb ±</th>
<th>208Pb ± 208Pb ±</th>
<th>Radiogenic Age (Ma)</th>
<th>U-Th Model Age (Ma)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>588</td>
<td>213</td>
<td>0.32</td>
<td>34.5 ± 0.00222</td>
<td>0.4 ± 0.01465</td>
<td>0.184 ± 0.0591</td>
<td>0.005 ± 0.005</td>
<td>0.054 ± 0.005</td>
<td>0.076 ± 0.009</td>
<td>430.0 ± 5.6</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>317</td>
<td>129</td>
<td>0.32</td>
<td>38.0 ± 0.00187</td>
<td>0.4 ± 0.01465</td>
<td>0.184 ± 0.0591</td>
<td>0.005 ± 0.005</td>
<td>0.054 ± 0.005</td>
<td>0.076 ± 0.009</td>
<td>472.0 ± 5.1</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>395</td>
<td>157</td>
<td>0.40</td>
<td>38.3 ± 0.00266</td>
<td>0.12 ± 0.13202</td>
<td>0.141 ± 0.0574</td>
<td>0.004 ± 0.004</td>
<td>0.040 ± 0.004</td>
<td>0.077 ± 0.008</td>
<td>470.1 ± 4.9</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1047</td>
<td>431</td>
<td>0.38</td>
<td>72.5 ± 0.00117</td>
<td>-0.01 ± 12.715</td>
<td>0.218 ± 0.0569</td>
<td>0.003 ± 0.003</td>
<td>0.078 ± 0.004</td>
<td>0.080 ± 0.014</td>
<td>480.0 ± 8.2</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>678</td>
<td>223</td>
<td>0.33</td>
<td>42.5 ± 0.00264</td>
<td>0.07 ± 0.13886</td>
<td>0.149 ± 0.0566</td>
<td>0.004 ± 0.004</td>
<td>0.126 ± 0.004</td>
<td>0.370 ± 0.008</td>
<td>454.0 ± 4.8</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>291</td>
<td>107</td>
<td>0.37</td>
<td>44.7 ± 0.00045</td>
<td>0.14 ± 0.0596</td>
<td>0.062 ± 0.0758</td>
<td>0.005 ± 0.005</td>
<td>0.178 ± 0.0021</td>
<td>1608.5 ± 11.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>810</td>
<td>306</td>
<td>0.41</td>
<td>52.1 ± 0.00262</td>
<td>0.10 ± 0.13360</td>
<td>0.158 ± 0.0571</td>
<td>0.004 ± 0.004</td>
<td>0.154 ± 0.004</td>
<td>0.548 ± 0.009</td>
<td>464.0 ± 5.4</td>
<td></td>
</tr>
</tbody>
</table>

#### Sample N00.07. Granodiorite from the Vega pluton.

<table>
<thead>
<tr>
<th>Grain.</th>
<th>U ppm</th>
<th>Th ppm</th>
<th>Th/U</th>
<th>206Pb/238U z</th>
<th>207Pb/235U z</th>
<th>208Pb/232U z</th>
<th>206Pb ± 206Pb ±</th>
<th>207Pb ± 207Pb ±</th>
<th>208Pb ± 208Pb ±</th>
<th>Radiogenic Age (Ma)</th>
<th>U-Th Model Age (Ma)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>568</td>
<td>183</td>
<td>0.32</td>
<td>39.5 ± 0.00222</td>
<td>0.42 ± 14.165</td>
<td>0.184 ± 0.0591</td>
<td>0.005 ± 0.005</td>
<td>0.075 ± 0.009</td>
<td>430.0 ± 5.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>307</td>
<td>93</td>
<td>0.32</td>
<td>36.0 ± 0.00187</td>
<td>0.42 ± 14.165</td>
<td>0.184 ± 0.0591</td>
<td>0.005 ± 0.005</td>
<td>0.075 ± 0.009</td>
<td>472.0 ± 5.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>385</td>
<td>127</td>
<td>0.40</td>
<td>58.3 ± 0.00266</td>
<td>0.12 ± 13.202</td>
<td>0.141 ± 0.0574</td>
<td>0.004 ± 0.004</td>
<td>0.075 ± 0.008</td>
<td>470.1 ± 4.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1009</td>
<td>363</td>
<td>0.38</td>
<td>72.5 ± 0.00117</td>
<td>-0.01 ± 12.715</td>
<td>0.218 ± 0.0569</td>
<td>0.003 ± 0.003</td>
<td>0.078 ± 0.004</td>
<td>0.080 ± 0.014</td>
<td>480.0 ± 8.2</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>678</td>
<td>233</td>
<td>0.33</td>
<td>42.5 ± 0.00264</td>
<td>0.07 ± 0.13886</td>
<td>0.149 ± 0.0566</td>
<td>0.004 ± 0.004</td>
<td>0.126 ± 0.004</td>
<td>0.370 ± 0.008</td>
<td>454.0 ± 4.8</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>289</td>
<td>101</td>
<td>0.37</td>
<td>44.7 ± 0.00045</td>
<td>0.14 ± 0.0596</td>
<td>0.062 ± 0.0758</td>
<td>0.005 ± 0.005</td>
<td>0.178 ± 0.0021</td>
<td>1608.5 ± 11.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>810</td>
<td>308</td>
<td>0.41</td>
<td>52.1 ± 0.00262</td>
<td>0.10 ± 0.13360</td>
<td>0.158 ± 0.0571</td>
<td>0.004 ± 0.004</td>
<td>0.154 ± 0.004</td>
<td>0.548 ± 0.009</td>
<td>464.0 ± 5.4</td>
<td></td>
</tr>
</tbody>
</table>

#### Sample N00.13. Granodiorite from the Vega pluton.

<table>
<thead>
<tr>
<th>Grain.</th>
<th>U ppm</th>
<th>Th ppm</th>
<th>Th/U</th>
<th>206Pb/238U z</th>
<th>207Pb/235U z</th>
<th>208Pb/232U z</th>
<th>206Pb ± 206Pb ±</th>
<th>207Pb ± 207Pb ±</th>
<th>208Pb ± 208Pb ±</th>
<th>Radiogenic Age (Ma)</th>
<th>U-Th Model Age (Ma)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>259</td>
<td>85</td>
<td>0.32</td>
<td>34.0 ± 0.00222</td>
<td>0.4 ± 14.165</td>
<td>0.184 ± 0.0591</td>
<td>0.005 ± 0.005</td>
<td>0.054 ± 0.005</td>
<td>0.076 ± 0.009</td>
<td>472.0 ± 4.8</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>289</td>
<td>93</td>
<td>0.32</td>
<td>36.0 ± 0.00187</td>
<td>0.42 ± 14.165</td>
<td>0.184 ± 0.0591</td>
<td>0.005 ± 0.005</td>
<td>0.075 ± 0.009</td>
<td>472.0 ± 4.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>385</td>
<td>127</td>
<td>0.40</td>
<td>58.3 ± 0.00266</td>
<td>0.12 ± 13.202</td>
<td>0.141 ± 0.0574</td>
<td>0.004 ± 0.004</td>
<td>0.075 ± 0.008</td>
<td>470.1 ± 4.9</td>
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</tr>
<tr>
<td>Total</td>
<td>1009</td>
<td>363</td>
<td>0.38</td>
<td>72.5 ± 0.00117</td>
<td>-0.01 ± 12.715</td>
<td>0.218 ± 0.0569</td>
<td>0.003 ± 0.003</td>
<td>0.078 ± 0.004</td>
<td>0.080 ± 0.014</td>
<td>480.0 ± 8.2</td>
<td></td>
</tr>
<tr>
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<td>233</td>
<td>0.33</td>
<td>42.5 ± 0.00264</td>
<td>0.07 ± 0.13886</td>
<td>0.149 ± 0.0566</td>
<td>0.004 ± 0.004</td>
<td>0.126 ± 0.004</td>
<td>0.370 ± 0.008</td>
<td>454.0 ± 4.8</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>289</td>
<td>101</td>
<td>0.37</td>
<td>44.7 ± 0.00045</td>
<td>0.14 ± 0.0596</td>
<td>0.062 ± 0.0758</td>
<td>0.005 ± 0.005</td>
<td>0.178 ± 0.0021</td>
<td>1608.5 ± 11.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>810</td>
<td>308</td>
<td>0.41</td>
<td>52.1 ± 0.00262</td>
<td>0.10 ± 0.13360</td>
<td>0.158 ± 0.0571</td>
<td>0.004 ± 0.004</td>
<td>0.154 ± 0.004</td>
<td>0.548 ± 0.009</td>
<td>464.0 ± 5.4</td>
<td></td>
</tr>
</tbody>
</table>
Table DR3. Average rim compositions and Al-in-hornblende pressure for Andalshatten and Tosbotn plutons.

Oxide weight percent

<table>
<thead>
<tr>
<th></th>
<th>Andalshatten pluton</th>
<th>Tosbotn pluton</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ave.</td>
<td>std. dev.</td>
</tr>
<tr>
<td>SiO₂</td>
<td>42.17</td>
<td>1.17</td>
</tr>
<tr>
<td>TiO₂</td>
<td>0.85</td>
<td>0.19</td>
</tr>
<tr>
<td>Al₂O₃</td>
<td>11.34</td>
<td>0.8</td>
</tr>
<tr>
<td>FeO</td>
<td>19.3</td>
<td>0.82</td>
</tr>
<tr>
<td>MnO</td>
<td>0.4</td>
<td>0.07</td>
</tr>
<tr>
<td>MgO</td>
<td>9.37</td>
<td>0.55</td>
</tr>
<tr>
<td>CaO</td>
<td>11.97</td>
<td>0.16</td>
</tr>
<tr>
<td>Na₂O</td>
<td>1.2</td>
<td>0.06</td>
</tr>
<tr>
<td>K₂O</td>
<td>1.21</td>
<td>0.13</td>
</tr>
<tr>
<td>Sum</td>
<td>97.79</td>
<td></td>
</tr>
<tr>
<td>Cl</td>
<td>0.08</td>
<td>0.01</td>
</tr>
<tr>
<td>F</td>
<td>b.d.</td>
<td></td>
</tr>
<tr>
<td>Less O=Cl</td>
<td>-0.02</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>97.78</td>
<td></td>
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</tbody>
</table>

Cations per 23 oxygens

<table>
<thead>
<tr>
<th></th>
<th>6.429</th>
<th>0.123</th>
<th>6.721</th>
<th>0.016</th>
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<tbody>
<tr>
<td>Si</td>
<td>0.097</td>
<td>0.023</td>
<td>0.125</td>
<td>0.019</td>
</tr>
<tr>
<td>Ti</td>
<td>2.039</td>
<td>0.154</td>
<td>1.531</td>
<td>0.019</td>
</tr>
<tr>
<td>Al</td>
<td>2.461</td>
<td>0.119</td>
<td>2.17</td>
<td>0.036</td>
</tr>
<tr>
<td>Fe⁺</td>
<td>0.051</td>
<td>0.009</td>
<td>0.038</td>
<td>0.003</td>
</tr>
<tr>
<td>Mg</td>
<td>2.128</td>
<td>0.113</td>
<td>2.545</td>
<td>0.038</td>
</tr>
<tr>
<td>Ca</td>
<td>1.955</td>
<td>0.025</td>
<td>1.881</td>
<td>0.016</td>
</tr>
<tr>
<td>Na</td>
<td>0.354</td>
<td>0.021</td>
<td>0.552</td>
<td>0.022</td>
</tr>
<tr>
<td>K</td>
<td>0.235</td>
<td>0.028</td>
<td>0.204</td>
<td>0.006</td>
</tr>
<tr>
<td>Cl</td>
<td>0.021</td>
<td>0.004</td>
<td>0.023</td>
<td>0.007</td>
</tr>
<tr>
<td>F</td>
<td>b.d.</td>
<td></td>
<td>b.d.</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>15.77</td>
<td>0.08</td>
<td>15.79</td>
<td></td>
</tr>
</tbody>
</table>

Mg/(Mg+Fe)

| 0.46  | 0.02  | 0.54  | 0.01 |

P(kb), Schmidt

| 6.7   | 0.7   | 4.3   | 0.1  |

# analyses

| 9     | 15    |