

TABLE 8.²

**Comparison between the experimental P values (P_{exp}) and pressures (P_{com})
computed from the barometric Equations (xv) and (xvi)**

| Reference No. | | T_{exp} ($^{\circ}\text{C}$) | P_{exp} (kbar) | P_1 (kbar) | P_2 (kbar) | ΔP_1 ($P_{\text{exp}}-P_{\text{com}}$) | ΔP_2 ($P_{\text{exp}}-P_{\text{com}}$) |
|-------------------|--------------------|---|----------------------------|-----------------|-----------------|---|---|
| This study | Exp run no. | | | | | | |
| PB1 | 1093-2/1H | 840 | 3 | 5.0 | 5.0 | -2.0 | -2.0 |
| PB2 | 1093-12/1H | 875 | 3 | 6.5 | 6.5 | -3.5 | -3.5 |
| PB3 | 1093-17/1H | 900 | 3 | 3.7 | 3.7 | -0.7 | -0.7 |
| PB4 | 1093-34/1H | 840 | 5 | 5.1 | 5.3 | -0.1 | -0.3 |
| PB5 | 292-15/1H | 875 | 5 | 6.7 | 6.5 | -1.7 | -1.5 |
| PB6 | 292-34/1H | 900 | 5 | 3.9 | 3.9 | 1.1 | 1.1 |
| PB7 | APD584/PC | 875 | 7 | 5.1 | 5.3 | 1.9 | 1.7 |
| PB8 | APD554/PC | 900 | 7 | 5.0 | 4.7 | 2.0 | 2.3 |
| PB9 | APD511/PC | 925 | 10 | 9.4 | 9.3 | 0.6 | 0.7 |
| PB10 | APD588/PC | 930 | 12.5 | 6.2 | 6.1 | 6.3 | 6.4 |
| PB11 | 547/PC | 950 | 15 | 11.1 | 10.6 | 3.9 | 4.4 |
| PB12 | 571PCc | 900 | 7 | 7.1 | 7.2 | -0.1 | -0.2 |
| PB13 | 552/PCc | 910 | 10 | 11.2 | 11.2 | -1.2 | -1.2 |
| PB14 | 570/PCc | 950 | 15 | 13.4 | 13.3 | 1.6 | 1.7 |
| S1 | T2-119A | 650 | 1 | 1.6 | 1.9 | -0.6 | -0.9 |
| S2 | T2-124A | 706 | 1 | -0.2 | 0.0 | 1.2 | 1.0 |
| S3 | T2-45B | 754 | 1 | 1.1 | 1.0 | -0.1 | 0.0 |
| S4 | T2-R44 | 883 | 1 | 2.6 | 2.4 | -1.6 | -1.4 |
| S5 | T2-125A | 701 | 3 | 2.1 | 2.4 | 0.9 | 0.6 |
| S6 | T2-44A | 752 | 3 | 6.7 | 6.6 | -3.7 | -3.6 |
| S7 | T2-126A | 698 | 5 | 6.1 | 6.3 | -1.1 | -1.3 |
| EL1 | 900/1.0 | 900 | 10 | 10.0 | 9.9 | 0.0 | 0.1 |
| EL2 | 800/1.0 | 800 | 10 | 8.3 | 8.4 | 1.7 | 1.6 |
| EL3 | 800/1.2 | 800 | 12 | 13.2 | 13.2 | -1.2 | -1.2 |
| EL4 | 750/1.0 | 750 | 10 | 10.2 | 10.3 | -0.2 | -0.3 |
| EL5 | 700/0.8 | 700 | 8 | 9.2 | 9.5 | -1.2 | -1.5 |
| EL6 | 700/1.0 | 700 | 10 | 6.2 | 6.5 | 3.8 | 3.5 |
| SD1 | B1 | 875 | 15 | 14.4 | 14.2 | 0.6 | 0.8 |
| SD2 | B3 | 925 | 15 | 15.7 | 15.2 | -0.7 | -0.2 |
| CNW1 | 624A | 825 | 10 | 10.1 | 10.0 | -0.1 | 0.0 |
| CNW2 | 323A | 725 | 10 | 10.5 | 10.4 | -0.5 | -0.4 |
| CNW3 | 321A | 750 | 10 | 9.0 | 9.1 | 1.0 | 0.9 |
| CNW4 | 305A | 675 | 10 | 9.9 | 10.2 | 0.1 | -0.2 |
| CNW5 | 310A | 700 | 10 | 10.5 | 10.7 | -0.5 | -0.7 |

TABLE 8.² (contd.)

| Reference No. | | T_{exp} ($^{\circ}\text{C}$) | P_{exp} (kbar) | P_1 (kbar) | P_2 (kbar) | ΔP_1 ($P_{\text{exp}}-P_{\text{com}}$) | ΔP_2 ($P_{\text{exp}}-P_{\text{com}}$) |
|-------------------|--------------------|---|----------------------------|-----------------|-----------------|---|---|
| This study | Exp run no. | | | | | | |
| P1 | R8A | 650 | 8 | 8.0 | 7.8 | 0.0 | 0.2 |
| P2 | R5A | 640 | 10 | 9.6 | 9.5 | 0.4 | 0.5 |
| P3 | R11 | 650 | 12 | 10.7 | 10.4 | 1.3 | 1.6 |
| JR1 | 80 | 780 | 3.5 | 4.8 | 5.1 | -1.3 | -1.6 |
| H1 | PG-750 | 700 | 5.0 | 7.6 | 7.6 | -2.6 | -2.6 |
| H2 | 1921-700 | 750 | 5.2 | 3.2 | 3.6 | 2.0 | 1.6 |
| H3 | 1921-HM725 | 725 | 4.9 | 5.0 | 5.4 | -0.1 | -0.5 |
| H4 | 1921-HM825 | 824 | 4.9 | 13.3 | 13.3 | -8.4 | -8.4 |

Note: P_1 and P_2 refer to the pressures estimated using Equation (xv) and Equation (xvi) respectively. ΔP_1 and ΔP_2 are the corresponding difference between the experimental and computed pressure values. For details see discussion in the text.

²MSA's deposit item 2.

TABLE 9.³

A comparison of P values in natural assemblage retrieved using the proposed barometers (P_{com}) with those recommended by the respective authors (P_{nat})

| Reference | | T_{nat} | P_{nat} | P_1 (com) | P_2 (com) | ΔP_1 ($P_{\text{nat}}-P_{\text{com}}$) | ΔP_2 ($P_{\text{nat}}-P_{\text{com}}$) |
|--------------|-----------|------------------|------------------|-------------|-------------|---|---|
| KS1 | BP - 3A | 600 | 9 | 9.0 | 9.5 | 0.0 | -0.5 |
| KS2 | CD - 303N | 565 | 7.9 | 6.8 | 7.3 | 1.1 | 0.6 |
| KS3 | VI - IU | 565 | 7.5 | 9.3 | 9.8 | -1.8 | -2.3 |
| KS4 | N2 | 550 | 9.5 | 7.3 | 7.6 | 2.2 | 1.9 |
| KS5 | N1 | 550 | 9.5 | 8.5 | 8.8 | 1.0 | 0.7 |
| S1 | 73 - 20A | 535 | 5.5 | 5.7 | 6.2 | -0.2 | -0.7 |
| S2 | 73 - 20C | 535 | 5.5 | 5.4 | 5.7 | 0.1 | -0.2 |
| S3 | 73 - 30S | 535 | 5.5 | 8.2 | 8.8 | -2.7 | -3.3 |
| JNH1 | 4 - 1A | 750 | 6 | 8.5 | 8.7 | -2.5 | -2.7 |
| BD1 | CL2H | 820 | 8 | 8.5 | 8.6 | -0.5 | -0.6 |
| KH1 | SW 173/1 | 580 | 9.6 | 11.3 | 11.7 | -1.7 | -2.1 |
| KH2 | SW614 | 580 | 8.6 | 8.9 | 9.4 | -0.3 | -0.8 |
| OJG1 | MATRIX | 775 | 8.5 | 9.0 | 8.9 | -0.5 | -0.4 |
| WTWL1 | 121655 | 730 | 7 | 6.7 | 7.4 | 0.3 | -0.4 |
| E1 | PW8605-11 | 730 | 9 | 10.7 | 10.7 | -1.7 | -1.7 |
| ER1 | 2 | 500 | 2.5 | 0.7 | 1.6 | 1.8 | 0.9 |
| ER2 | 6 | 500 | 2.5 | 6.7 | 7.6 | -4.2 | -5.1 |
| ER3 | 7 | 500 | 2.5 | 2.5 | 3.5 | 0.0 | -1.0 |
| ER4 | 8 | 500 | 2.5 | 2.7 | 3.6 | -0.2 | -1.1 |
| CAR1 | GG-264.1 | 800 | 10 | 9.9 | 9.1 | 0.1 | 0.9 |
| CAR2 | GG-264.2 | 800 | 10 | 8.1 | 7.3 | 1.9 | 2.7 |
| CAR3 | GG-264.3 | 800 | 10 | 7.7 | 6.9 | 2.3 | 3.1 |
| CAR4 | GG-264.4 | 800 | 10 | 8.8 | 8.0 | 1.2 | 2.0 |
| CAR5 | GG-265.1 | 800 | 10 | 8.6 | 7.4 | 1.4 | 2.6 |
| CAR6 | GG-265.2 | 800 | 10 | 4.8 | 3.6 | 5.2 | 6.4 |
| H1 | 618 | 750 | 7 | 6.6 | 7.3 | 0.4 | -0.3 |
| MBC1 | C/182 | 680 | 6 | 4.2 | 5.0 | 1.8 | 1.0 |
| HN1 | 263.2 | 620 | 8.5 | 6.4 | 6.7 | 2.1 | 1.8 |
| HN2 | 294.1 | 650 | 11 | 7.2 | 7.4 | 3.8 | 3.6 |
| HN3 | 296A.4 | 650 | 11 | 8.7 | 8.6 | 2.3 | 2.4 |
| DU1 | BR10-A | 860 | 10 | 11.9 | 12.2 | -1.9 | -2.2 |
| DU2 | BR-10B | 860 | 10 | 12.2 | 12.3 | -2.2 | -2.3 |
| BO1 | rim | 738 | 6.9 | 4.8 | 5.3 | 2.1 | 1.6 |
| BO2 | core | 738 | 6.9 | 4.3 | 4.8 | 2.6 | 2.1 |
| VA1 | 99-86C | 660 | 11.0 | 11.7 | 11.8 | -0.7 | -0.8 |

TABLE 9.³ (Contd.)

| Reference | | T_{nat} | P_{nat} | $P_1 \text{ (com)}$ | $P_2 \text{ (com)}$ | ΔP_1 ($P_{\text{nat}} - P_{\text{com}}$) | ΔP_2 ($P_{\text{nat}} - P_{\text{com}}$) |
|------------|----------|------------------|------------------|---------------------|---------------------|---|---|
| VA2 | 99-8C | 670 | 12.0 | 10.1 | 10.1 | 1.9 | 1.9 |
| M1 | 93/JM/3B | 750 | 10.0 | 8.6 | 9.0 | 1.4 | 1.0 |
| M2 | 93/JM/3D | 750 | 10.0 | 10.8 | 11.2 | -0.8 | -1.2 |
| M3 | 93/JM/3 | 750 | 10.0 | 10.4 | 10.7 | -0.4 | -0.7 |
| TL1 | A1 | 550 | 5 | 3.6 | 3.7 | 1.4 | 1.3 |
| TL2 | A2 | 450 | 5 | 4.2 | 4.8 | 0.8 | 0.2 |
| L1 | CP 183 | 550 | 3 | 4.6 | 5.7 | -1.6 | -2.7 |
| L2 | PML 37b | 550 | 3 | 2.9 | 3.6 | 0.1 | -0.6 |
| L3 | PML 255 | 550 | 3 | 1.6 | 2.3 | 1.4 | 0.7 |

Note: $P_1 \text{ (com)}$ and $P_2 \text{ (com)}$ refer to the pressures estimated using Equation (xv) and Equation (xvi) respectively. ΔP_1 and ΔP_2 are the corresponding difference between the experimental and computed pressure values Acronyms: KS, Kohn and Spear (1989, 1990); S, Spear (1982); JNH, Janardhan et al. (1982); BD, Baker and Droop (1983); KH, Konzett and Hoinkes (1996); OJG, O'Beirne-Ryan et al. (1990); WTWL, Weaver et al. (1982); E, Encarnacion et al. (1995); ER, Erdmer (1981); CAR, Carney et al. (1991); H, Harley (1988); MBC, Mukherjee et al. (1986); HN, Hansen (1992); DU, Dufour (1985); BO, Burton and O'Nions (1990); VA, Valley et al. (2003); M, Miller et al. (1997); TL, Thompson and LeClair (1987) ; and L, Labotka (1981, 1987).

³MSA's deposit item 3.