**Table 10-2. Suturing and shearing events in the Arabian shield**

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| **Name** | **Description** | **Age range of shearing** |
| Tabalah-Tarj shear zone | Intraterrane shear zone in the Asir composite terrane; may indicate local arc accretion within the Asir terrane; contemporary with movement on the Bi’r Umq suture | 780-765 Ma |
| Bi’r Umq suture | Ophiolite-decorated suture zone between the Jiddah and Hijaz terranes; extends into the Nubian shield as the Nakasib suture | 780-750 Ma |
| Yanbu suture | Ophiolite-decorated suture zone between the Hijaz and Midyan terranes; extends into the Nubian shield as the Sol Hamed-Alaqi suture | ~700 Ma |
| Nabitah fault zone | A dextral shear zone; in the north originated as the suture between the Asir and Tathlith terranes, farther south, is an intraterrrane shear zone. Contemporary with suturing on the Hulayfah-Ad Dafinah-Ruwah fault zone, overlapped with movement on the Halaban suture, contemporary with early movements on the Najd faults | 680-640 Ma |
| Halaban suture zone | The suture between the Ad Dawadimi terrane and Afif composite terrane; identified by obducted Halaban ophiolite | 680 Ma |
| Najd fault system | Major system of northwest-trending brittle- ductile strike slip faults, mainly, but not exclusively, sinistral strike slip. Associated with elongate mylonitic gneiss domes and Jibalah group basins (either deposited in pull-aparts, or preserved in down-faulted blocks along Najd faults). Minor offsets of Lower Paleozoic sandstone unconformable on the shield, but major movements had ceased by time of deposition of the Lower Paleozoic rocks at 530 Ma | ~630-530 Ma |
| Ad Dam fault (a strike-slip fault, not a suture) | Dextral strike-slip fault between the Asir and Jiddah terranes. Contemporary with Najd faulting, with movement on the Al Amar fault, and with movements on north-south shear zones in the Asir terrane | Sometime between 620-540 Ma |
| Umm Farwah shear zone | Intraterrane shear zone within the Asir composite terrane; forms the boundary between the long-lived extensional structure of the Ablah belt (graben?) and Shwas-Tayyah belts | Minimum age about 605 Ma; maximum age uncertain; could be as much as 780 Ma |
| Al Amar fault | A dextral strike-slip fault between the Ad Dawadimi and Ar Rayn terranes. It is decorated by serpentinite lenses. Whether it originated as a suture zone between amalgamating terranes or is a fault between an arc and a forearc or backarc basin, is uncertain. | 600-580 Ma(?) |