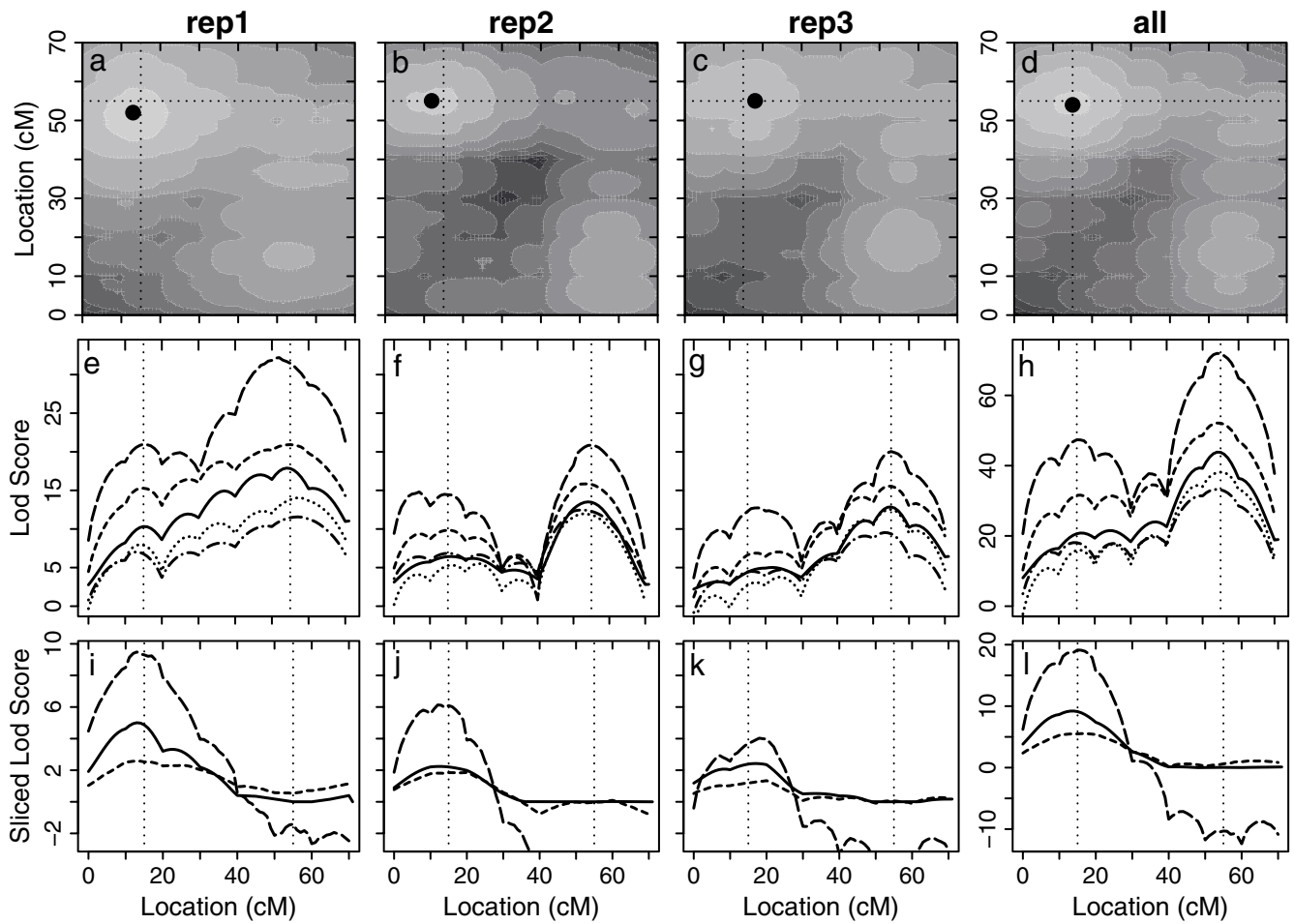


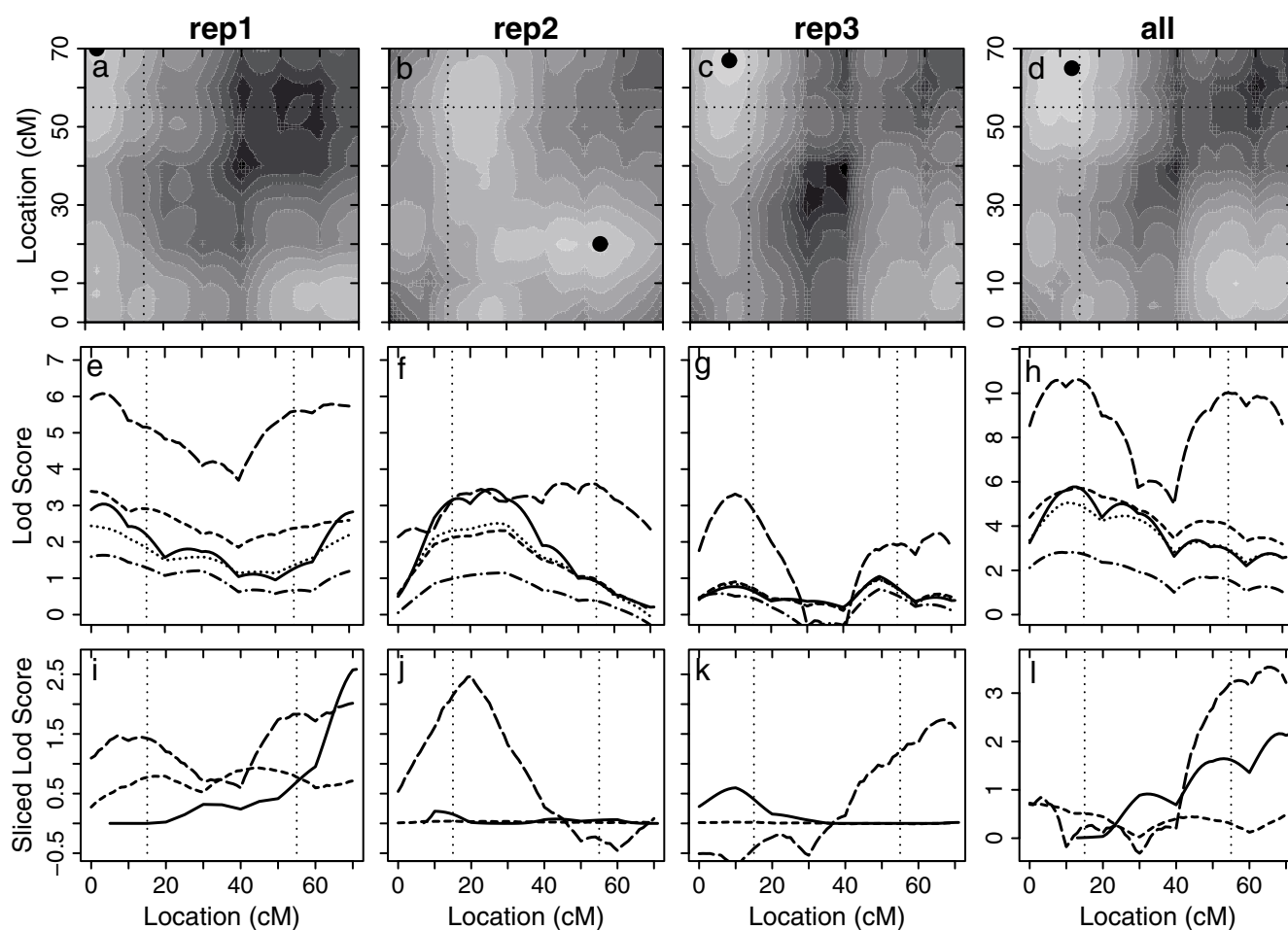
## Supplementary Figure 1



### Supplementary Figure 1.

Lod Scores for Replicate Runs with Trait T1 using 100ped16 (weak QTL at 15 cM, strong QTL at 55cM). Row 1: two-dimensional lod scores from the 2EQ+P model. Row 2: lod scores for the strong QTL location. Row 3: sliced lod scores for the weak QTL location. Shadings and line types are as in Figure 2. Col 1: replicate 1, identical with column 1 in Figure 2. Col 2: replicate 2. Col 3: replicate 3. Col 4: combined replicates 1-3 (300ped16).

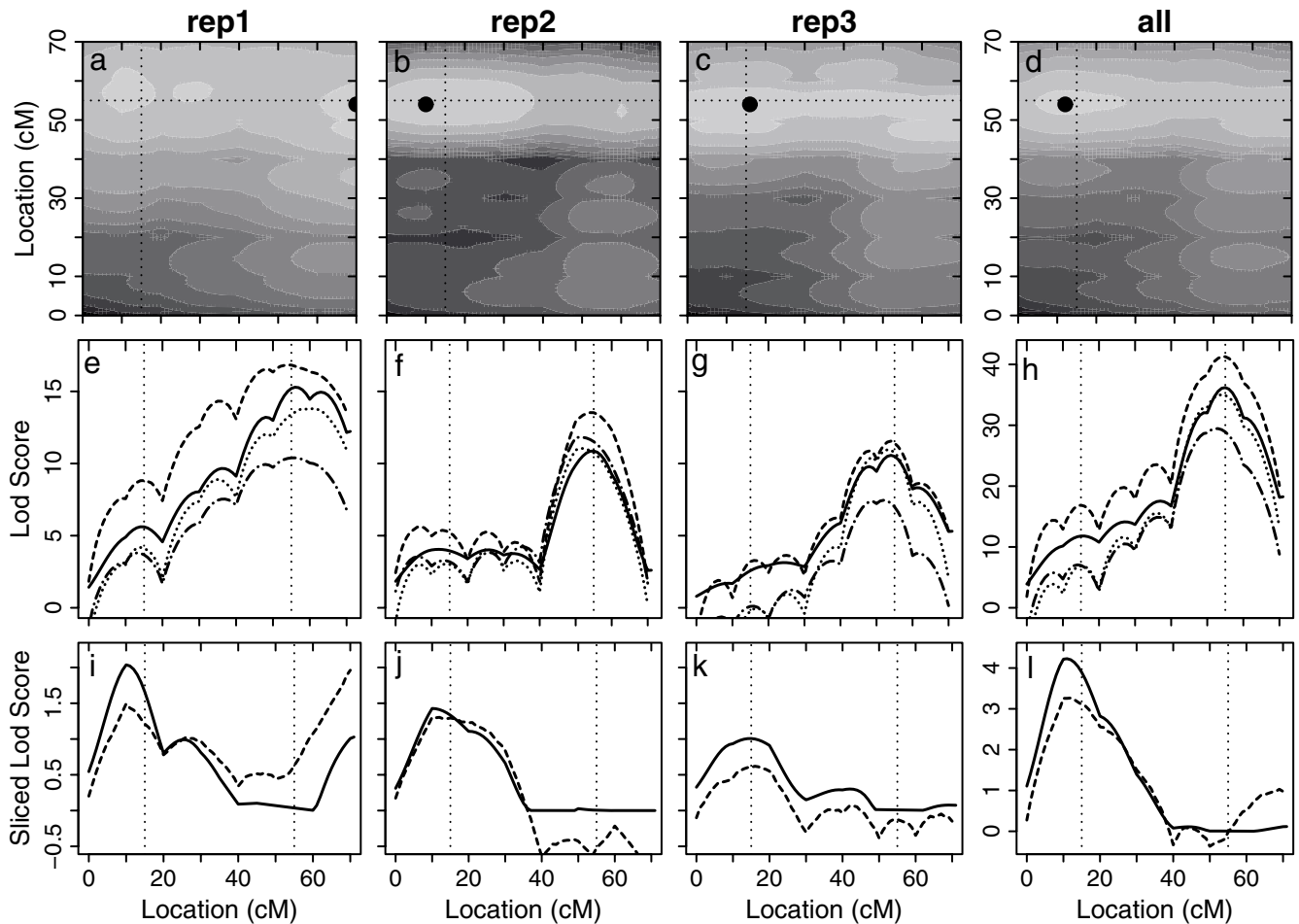
## Supplementary Figure 2



### Supplementary Figure 2.

Lod Scores for Replicate Runs with Trait T2 using 100ped16 (weak QTL at 55 cM, strong QTL at 15 cM). Row 1: two-dimensional lod scores from the 2EQ+P model. Row 2: lod scores for the strong QTL location. Row 3: sliced lod scores for the weak QTL location. Shadings and line types are as in Figure 3. Col 1: replicate 1, identical with column 1 in Figure 2. Col 2: replicate 2. Col 3: replicate 3. Col 4: combined replicates 1–3 (300ped16).

### Supplementary Figure 3



**Supplementary Figure 3.**

Lod Scores for Replicate Runs with Trait T3 using 100ped16 (weak QTL at 15 cM, strong QTL at 55 cM). Row 1: two-dimensional lod scores from the 2Q+P model. Row 2: lod scores for the strong QTL location. Row 3: sliced lod scores for the weak QTL location. Shadings and line types are as in figure 2. Col 1: replicate 1, identical with column 1 in figure 4. Col 2: replicate 2. Col 3: replicate 3. Col 4: combined replicates 1–3 (300ped16). Analysis from the 2EQ+P model is absent because data were simulated from the 2Q+P model.