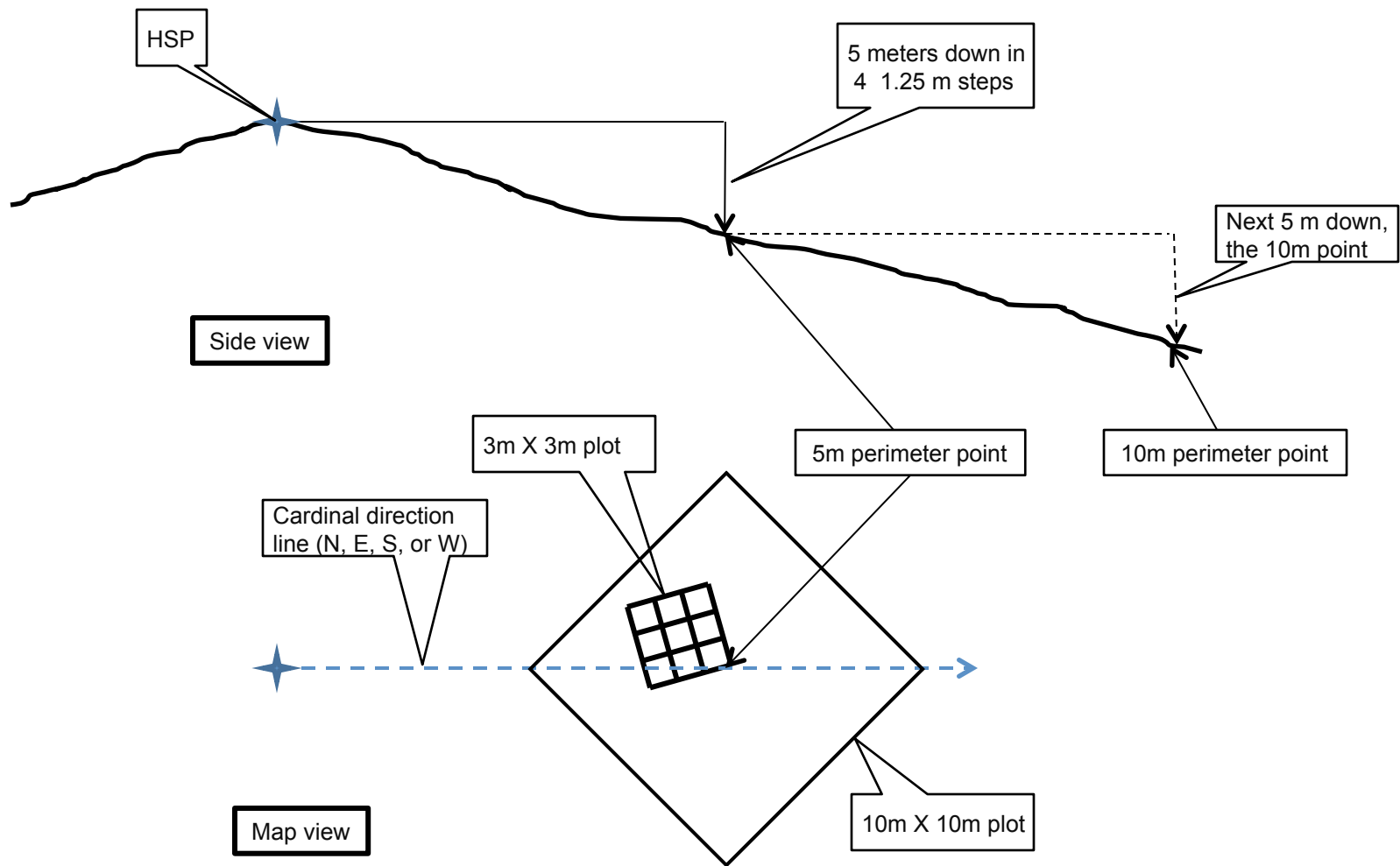


# GLORIA survey-system layout process

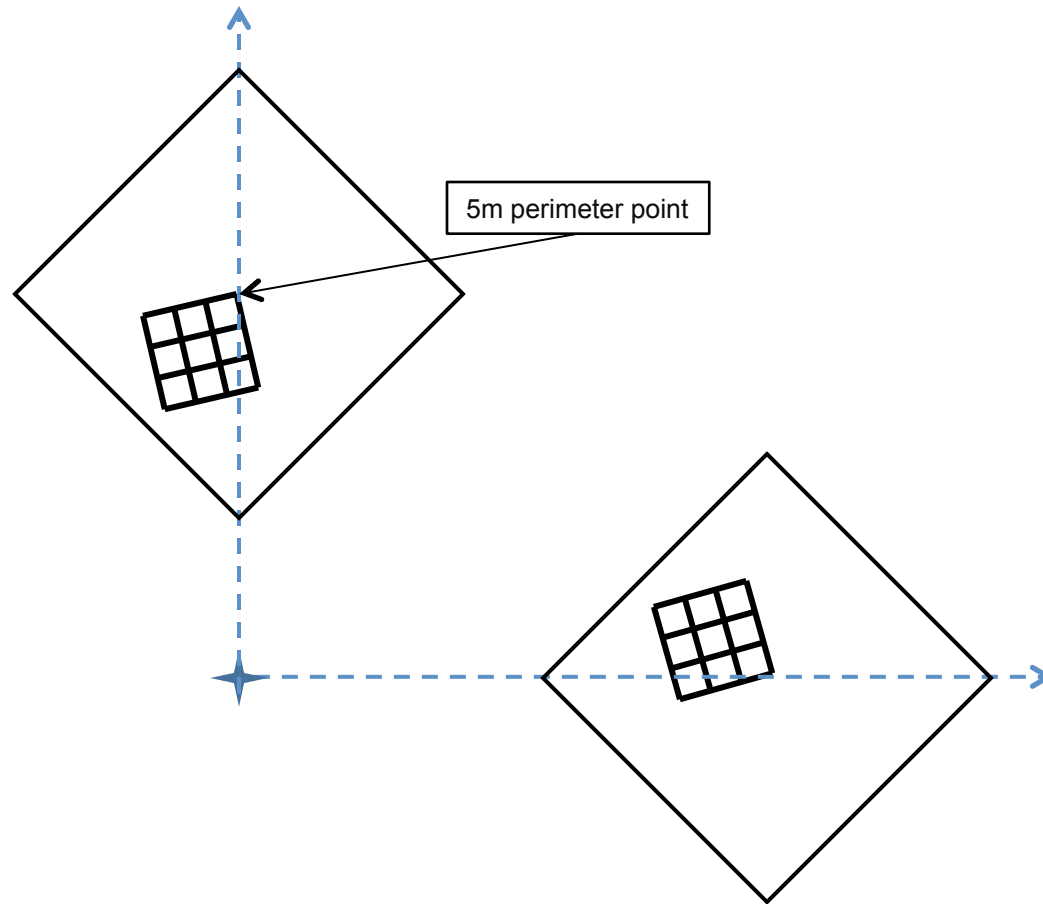
This approach allows botany teams to go to work on defined plots in minimal time.

The system can also be laid out in its entirety, down to the 10-meter perimeter in a continuous manner, if it will not delay the botanical survey work.

Jim Bishop, July 2012

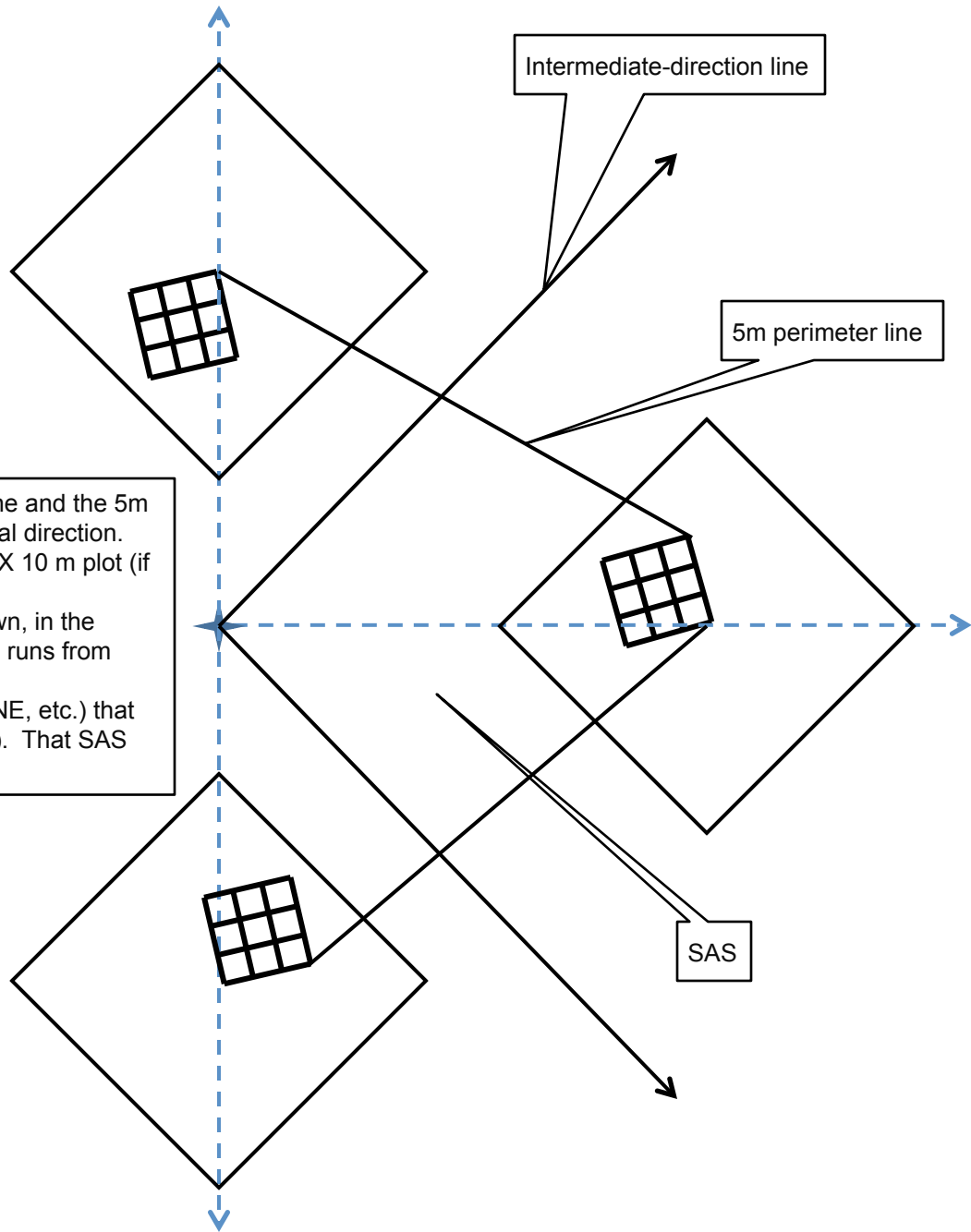


1. Run a line out along one of the cardinal directions, and take 4 1.25 m steps down to the 5m perimeter location. Extend the line about 10 m further (to allow placement of the 10m X 10m plot)
2. Place a 3m X 3m grid, corner on the 5m perimeter point, with lower line parallel to slope contour
3. Lay out 10m X 10m plot, centered on 5m perimeter point, with a diagonal of 14.14 m length along the cardinal direction
4. Move to next cardinal direction. You can come later and extend the line along the cardinal direction to the 10m perimeter point

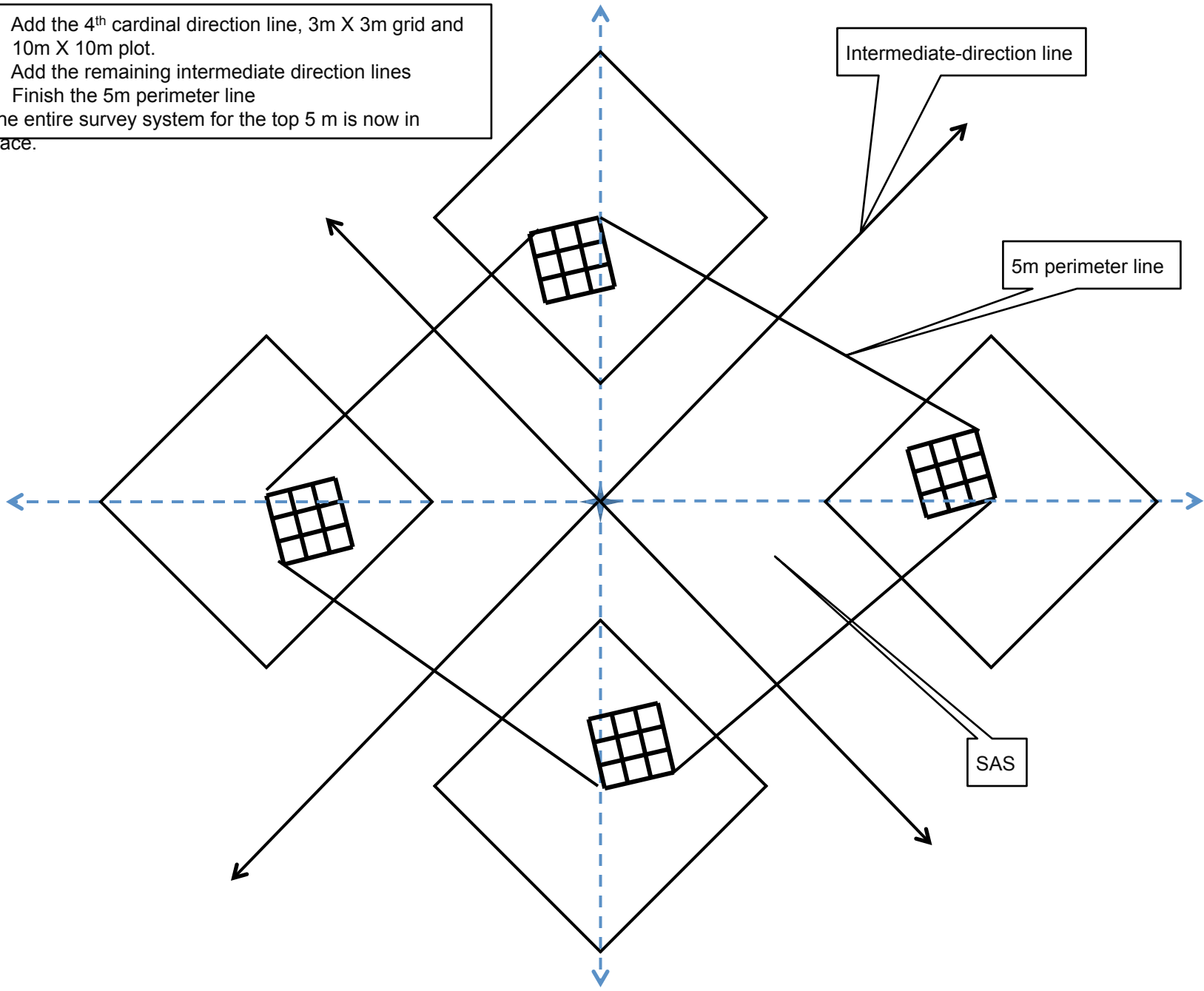


1. Repeat the placement of a line and the 5m perimeter point on an adjacent cardinal direction.
  2. Place the 3m X 3m grid and the 10m X 10 m plot.
- Note: If there is no botany team to utilize the 10m X 10m plot for a while, leave it for later.

1. Repeat the placement of a cardinal line and the 5m perimeter point on an adjacent cardinal direction.
2. Place the 3m X 3m grid and the 10m X 10 m plot (if a team can utilize it soon).
3. Lay out the 5m perimeter line as shown, in the vertical plane that cuts the hillside and runs from corner to corner of the 3m X 3m grids.
4. Run the two intermediate lines (NW, NE, etc.) that define the Summit Area Section (SAS). That SAS can now be surveyed.



1. Add the 4<sup>th</sup> cardinal direction line, 3m X 3m grid and 10m X 10m plot.
  2. Add the remaining intermediate direction lines
  3. Finish the 5m perimeter line
- The entire survey system for the top 5 m is now in place.



1. Extend the cardinal directions to the 10m point
  2. Run the 10m perimeter from each 10m point to the next, in the vertical plane that intersects the hillside.
  3. Extend the intermediate direction lines to the 10m perimeter
- You can remove the cardinal direction lines to reduce clutter, and leave the plots and SAS better outlined.

