

# Kegel LaneMap Guide

Dream Bowl Palace – Munich, Germany

10 June 2019



## Introduction

Kegel is pleased to provide you with this revolutionary LaneMap™ Guide. This guide is an assessment of the **gravitational forces on each board** of each lane in this bowling center. It will assist you in knowing how much and where gravitational forces come into the play on each lane as the bowling ball travels from foul line to head pin.

## Understanding the Data

This guide is designed to compare each pair of lanes in the bowling center. The data presented is:

- ☛ LaneMap™ Graph - A colored gravitational slope graph of each lane

**The Kegel LaneMapper™** is a state of the art device that can efficiently and accurately log digital recordings of surface topography. Designed by Kegel specifically for bowling lanes, the LaneMapper™ reads and records both length and crosswise levels while simultaneously logging crowns and depressions of all 39 boards at any distance on the lane to an accuracy of .001 inch. The LaneMap Guide was derived from this tool and data.

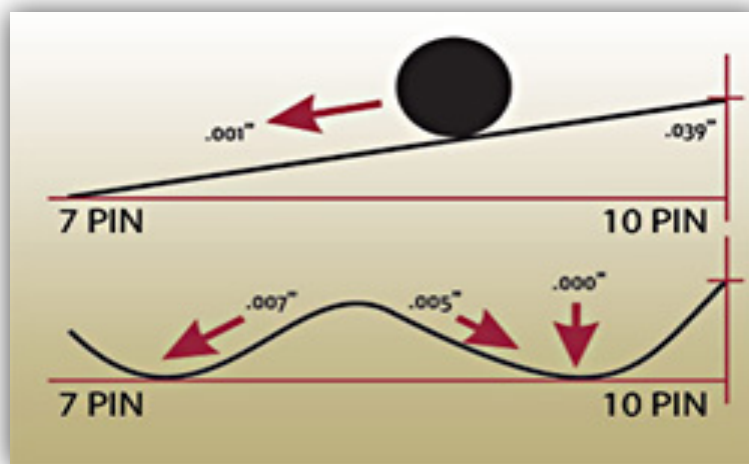


**Topography** is defined as the graphical representation of surface features indicating relative positions and elevations. It's a known fact that changes in topography adversely affect the ball path and ball motion (rate of energy depletion). When topographical features are randomly different on a bowling lane, so is ball motion.



Another variable is **Slope per Board™**. Each board has a specific slope, calculated from the crosswise tilt, crowns, and depressions. The degree of this slope has a proportional effect on the ball path and can also influence the rate of energy depletion of the bowling ball. I.e. deplete energy sooner or later.

For example, a board with a  $2/1000''$  slope will affect the ball twice as much as a board with a  $1/1000''$  slope. Bowlers throw balls on different boards and **each ball is only affected by the slope of the board it's on**. The other slopes don't matter to that ball because quite simply, it's not on them.



## Kegel LaneMap™ Graph

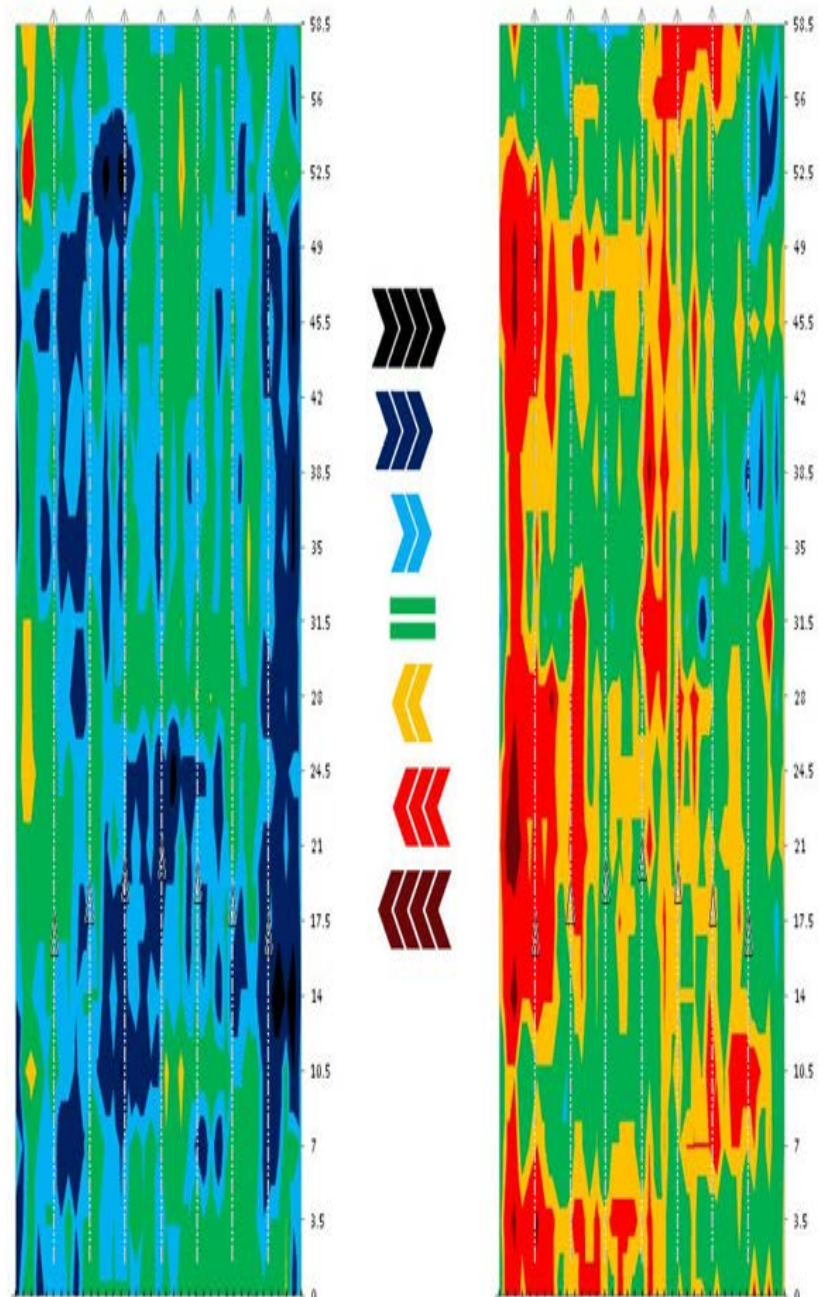
The revolutionary Kegel LaneMap™ graph shows the slope per board and is the gravitational influence on the “canvas” (lane) prior to the application of “paint” (lane conditioner). Gravity and friction are separate forces on a bowling ball but gravity problems cannot be fixed with friction solutions.

Since the lanes are generally oiled identically, differences between lanes in ball reaction will be a function of differences in gravitational forces “under” the conditioner. In order for two lanes to play the same, they must not only be oiled the same, but they also must have similar gravitational influences in comparable places.

The black and dark blue areas on the LaneMap™ graph are very strong gravitational influences to the right while light blue areas are less, but still substantial influences to the right.

The maroon and red areas are very strong gravity influences to the left, while orange areas are less but still substantial influences to the left.

Green represents areas of very little gravity influence. The bottom of the graph is the foul line and the top of the graph is right before the pins.



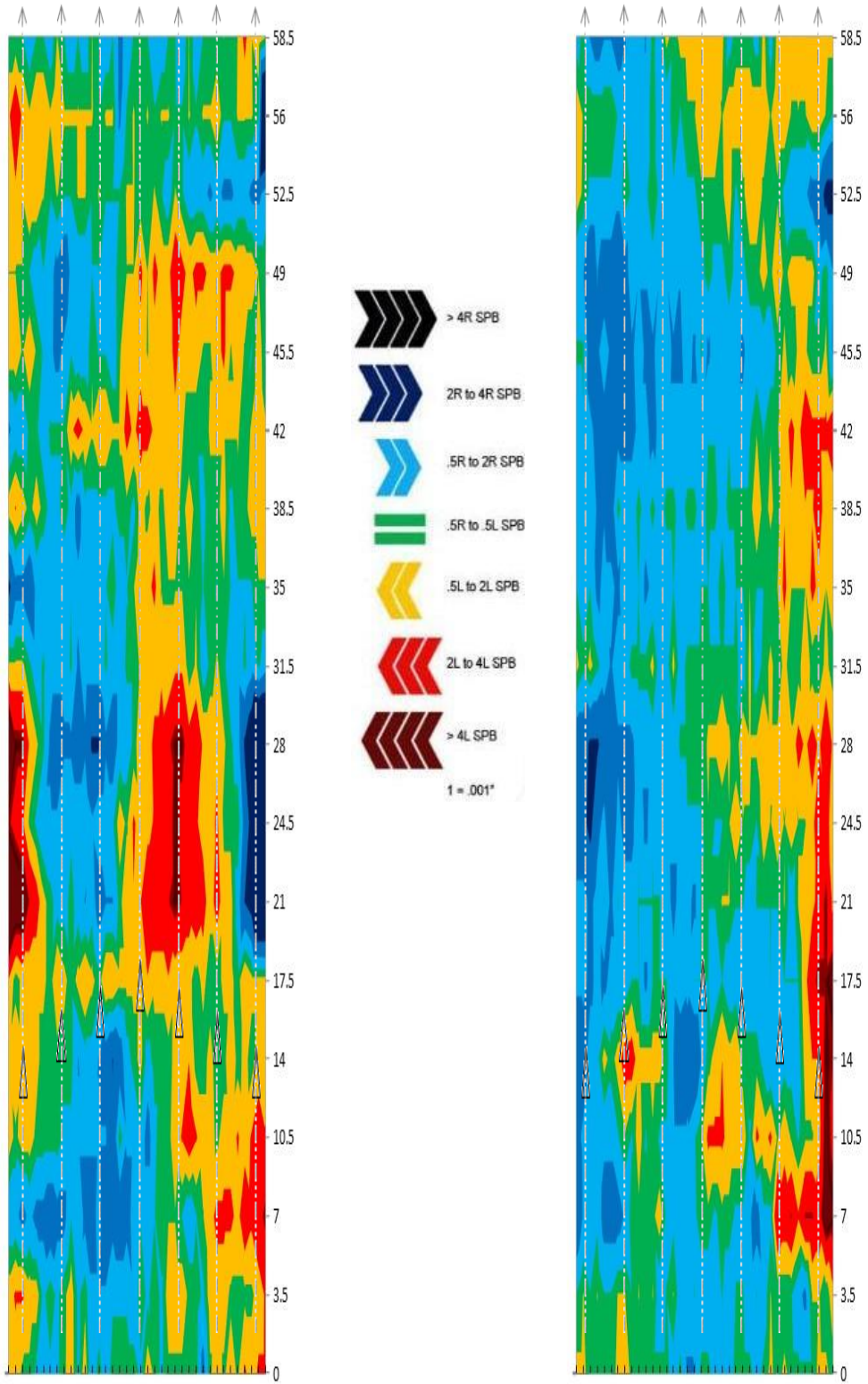
## Bowling Center Lane Details

- ✎ Number of lanes: 52
- ✎ Lane Surface: Brunswick Anvilane Pro
  - Age/year of installation: 2009
- ✎ Lane Surface Levelers and Underlayment: Brunswick
  - Age/year of installation: 2009
- ✎ Head area replaced and if yes, end distance: N/A
- ✎ Approaches: Brunswick Anvilane
- ✎ Pin Decks: Brunswick Anvilane
- ✎ Pinsetters: Brunswick GSX
- ✎ Score System: Brunswick Sync

Lane 1

Kegel LaneMap™ Guide

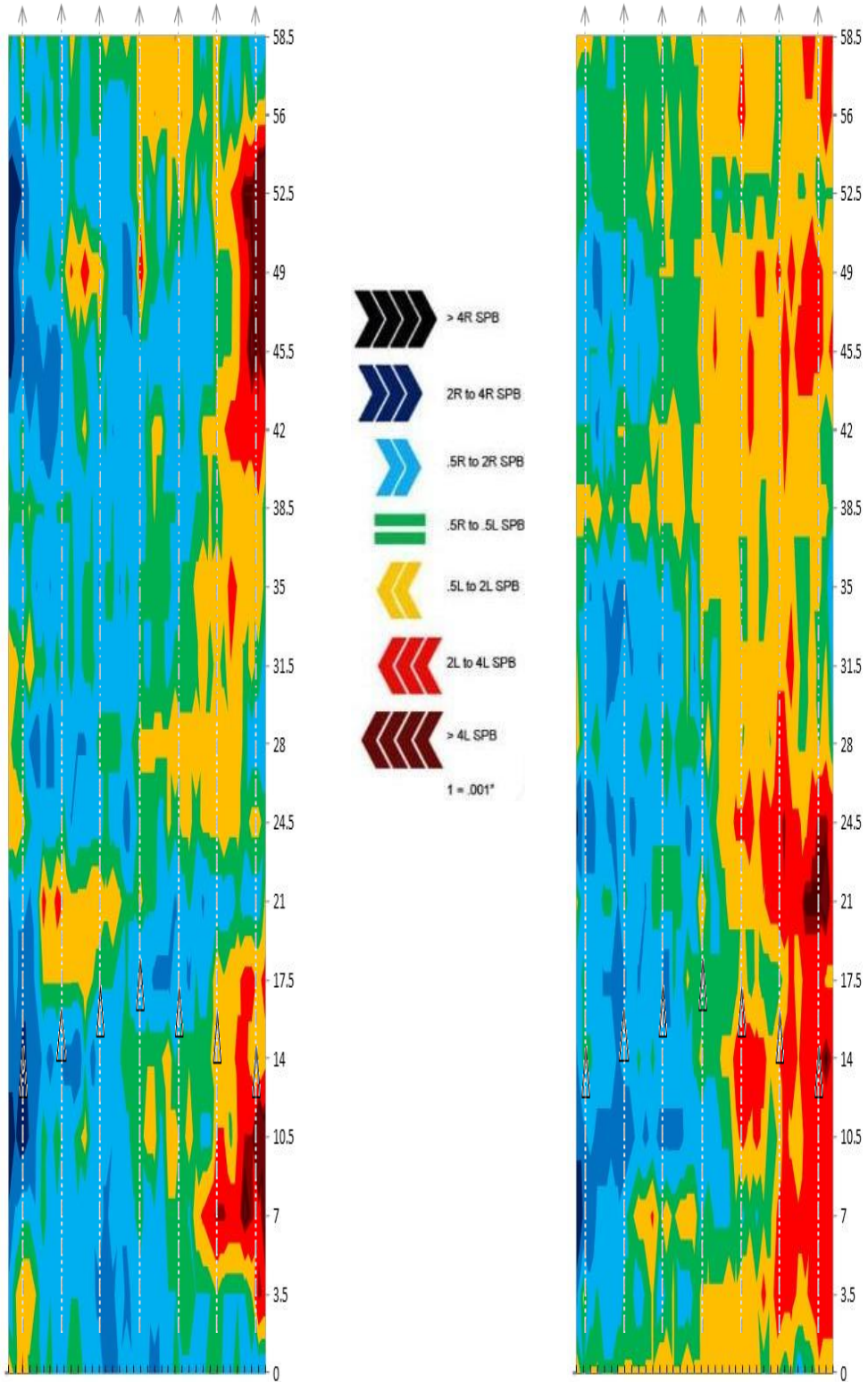
Lane 2



Lane 3

Kegel LaneMap™ Guide

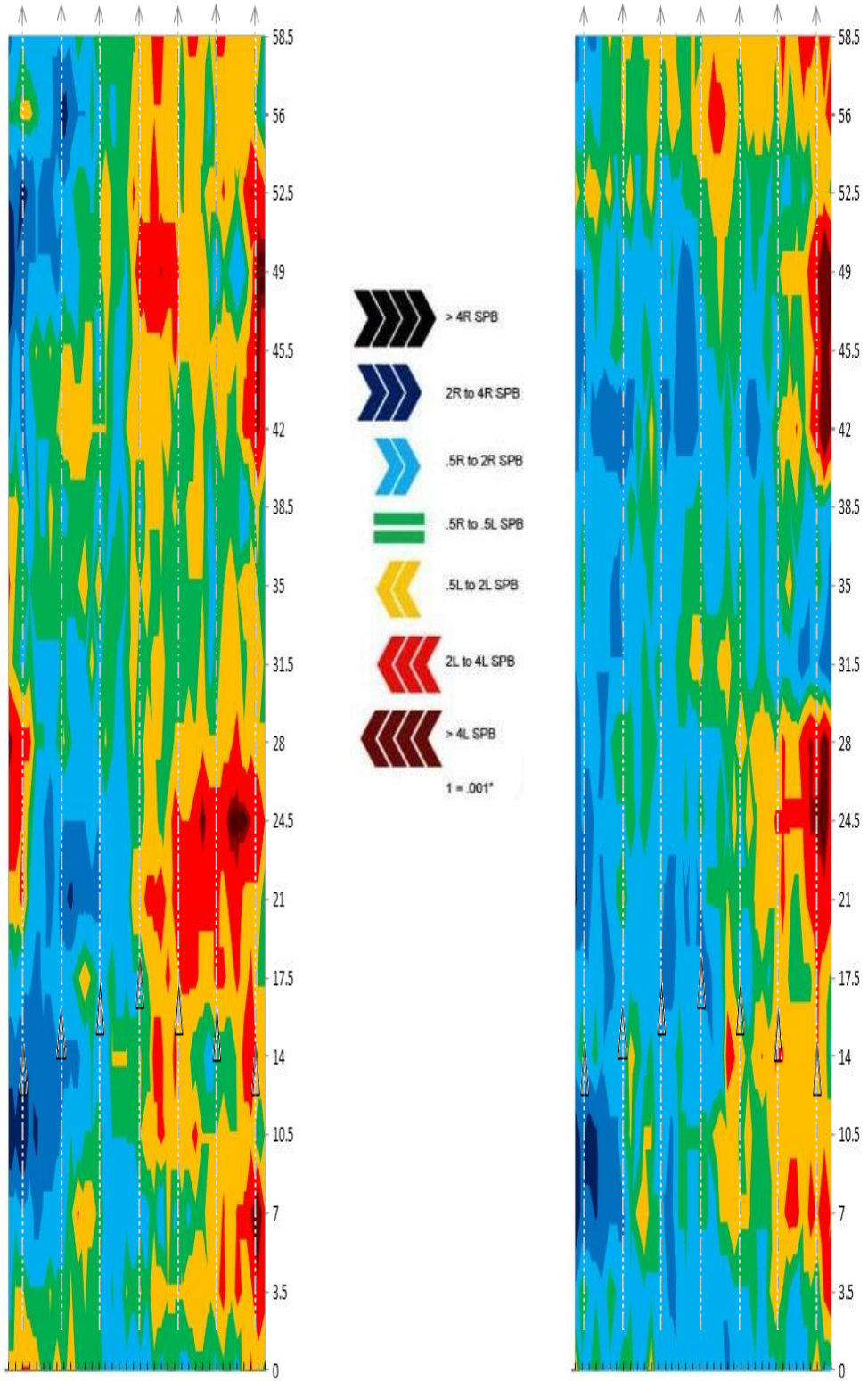
Lane 4



Lane 5

Kegel LaneMap™ Guide

Lane 6

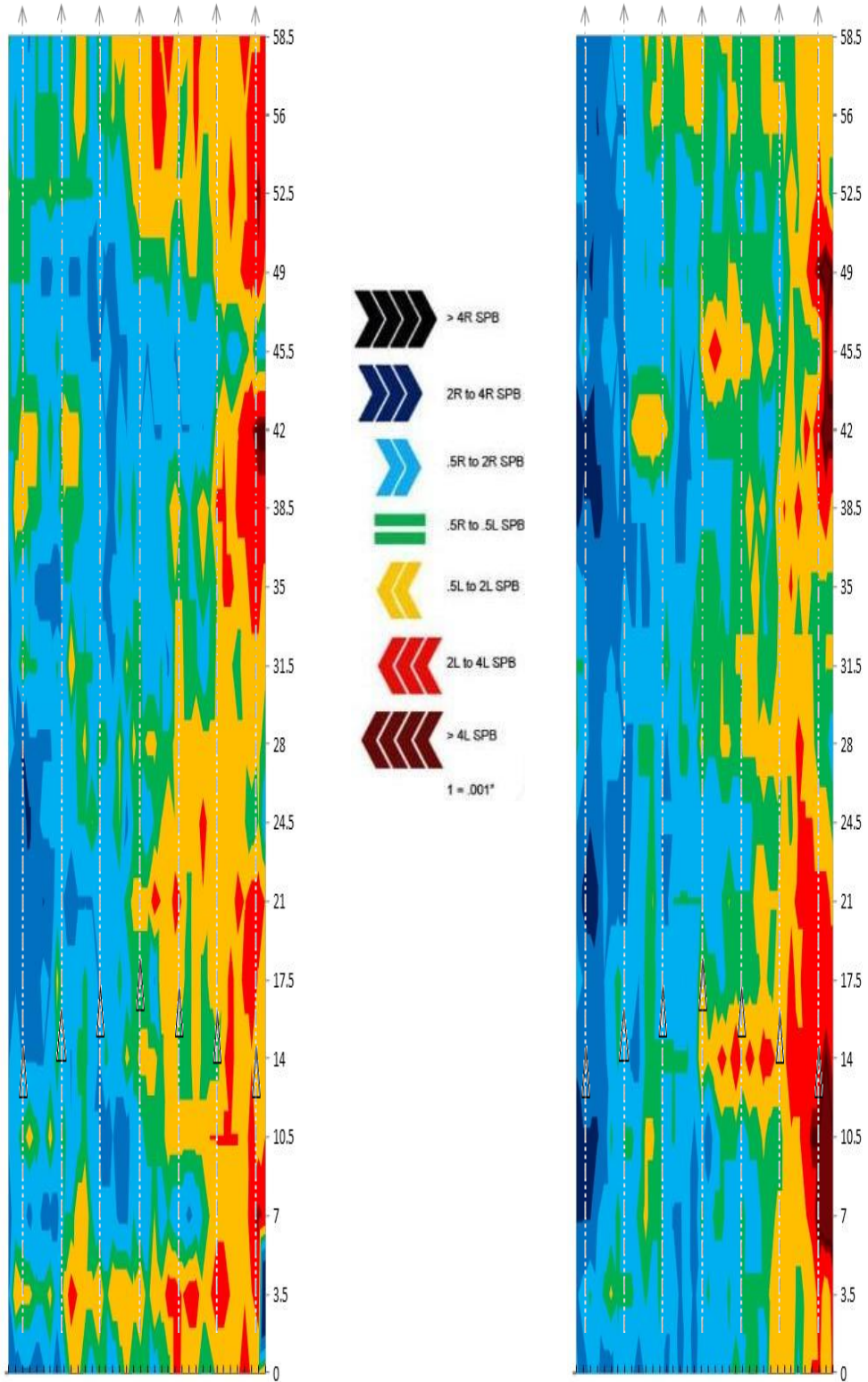




Lane 7

Kegel LaneMap™ Guide

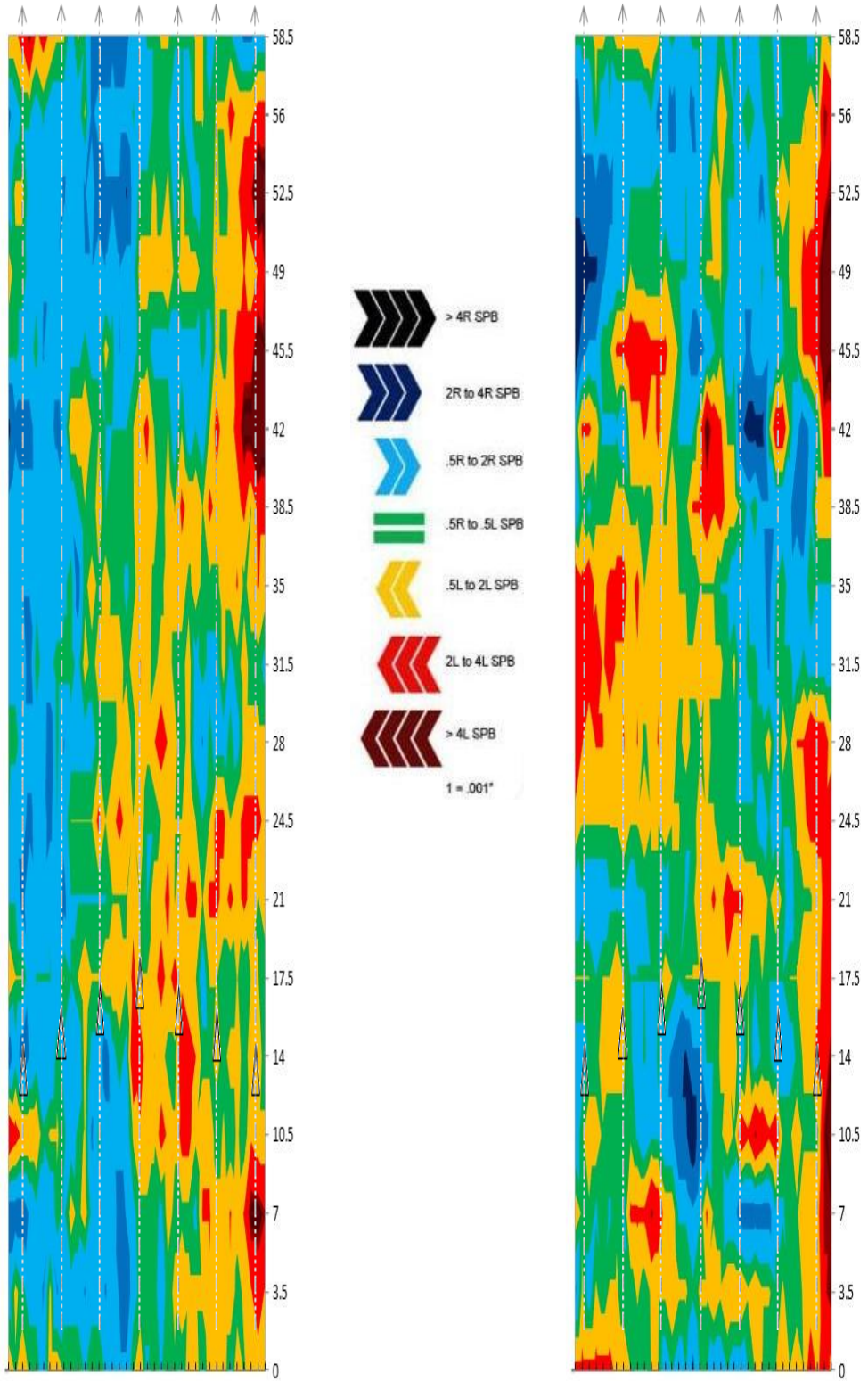
Lane 8



Lane 9

Kegel LaneMap™ Guide

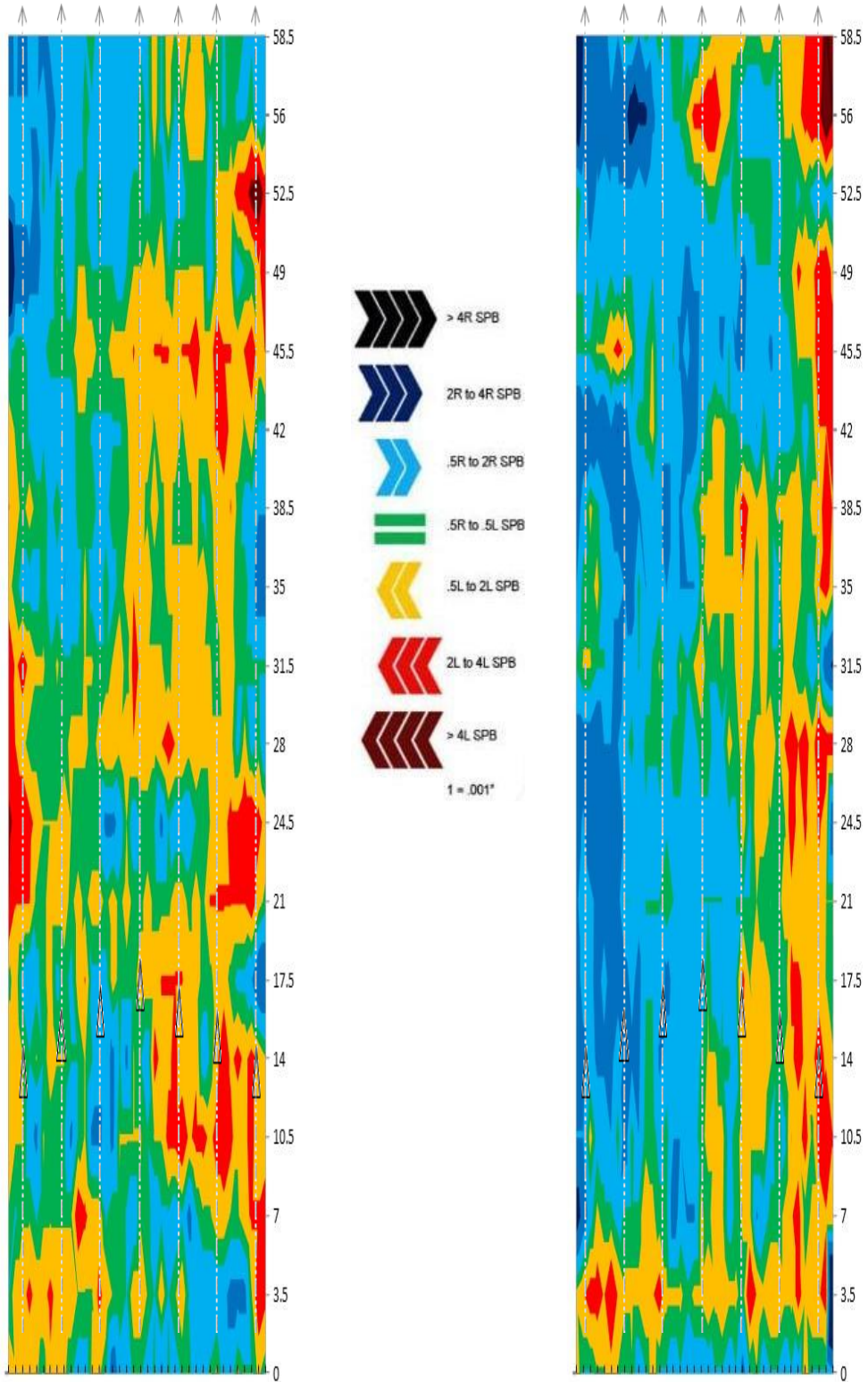
Lane 10



Lane 11

Kegel LaneMap™ Guide

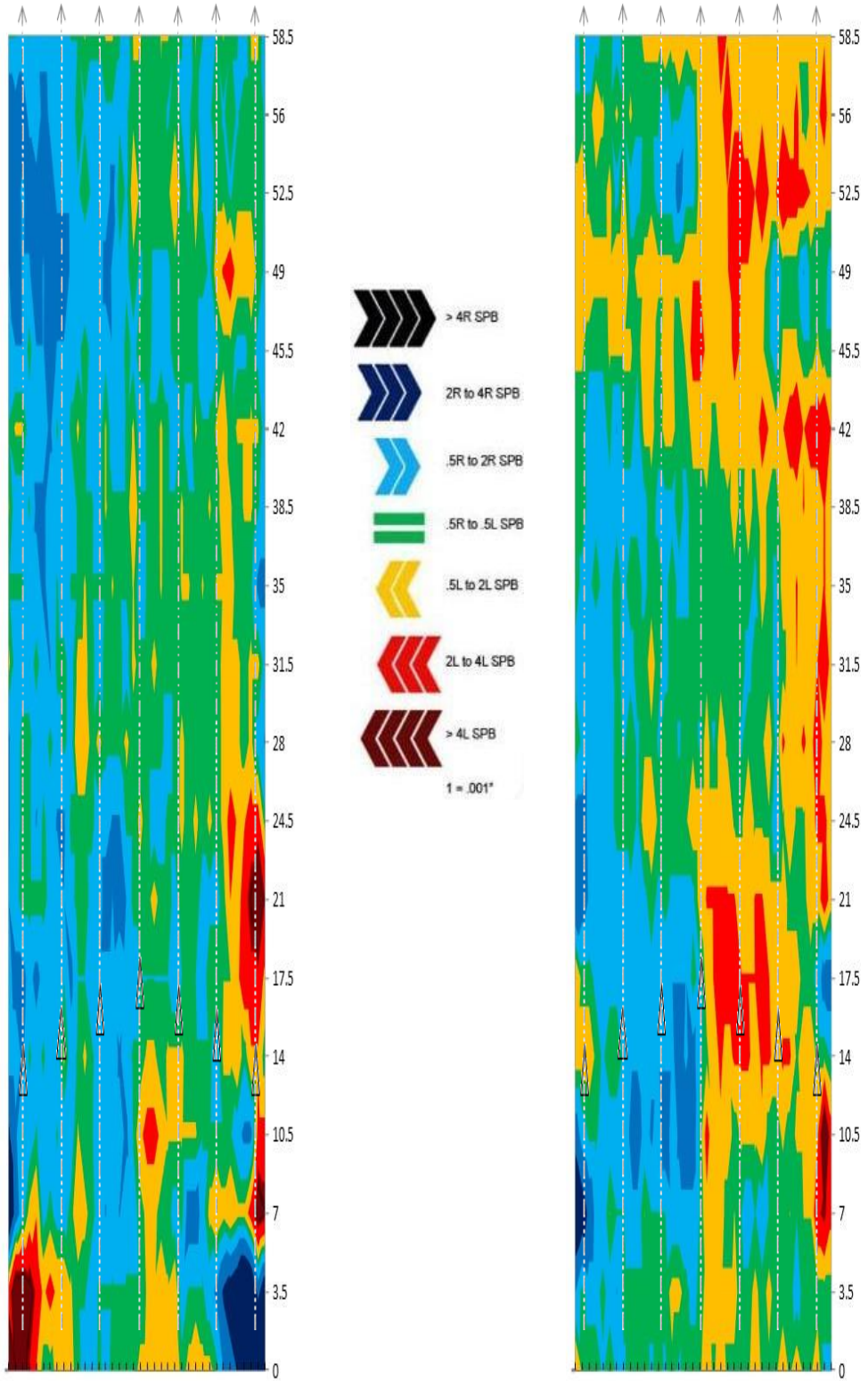
Lane 12



Lane 13

Kegel LaneMap™ Guide

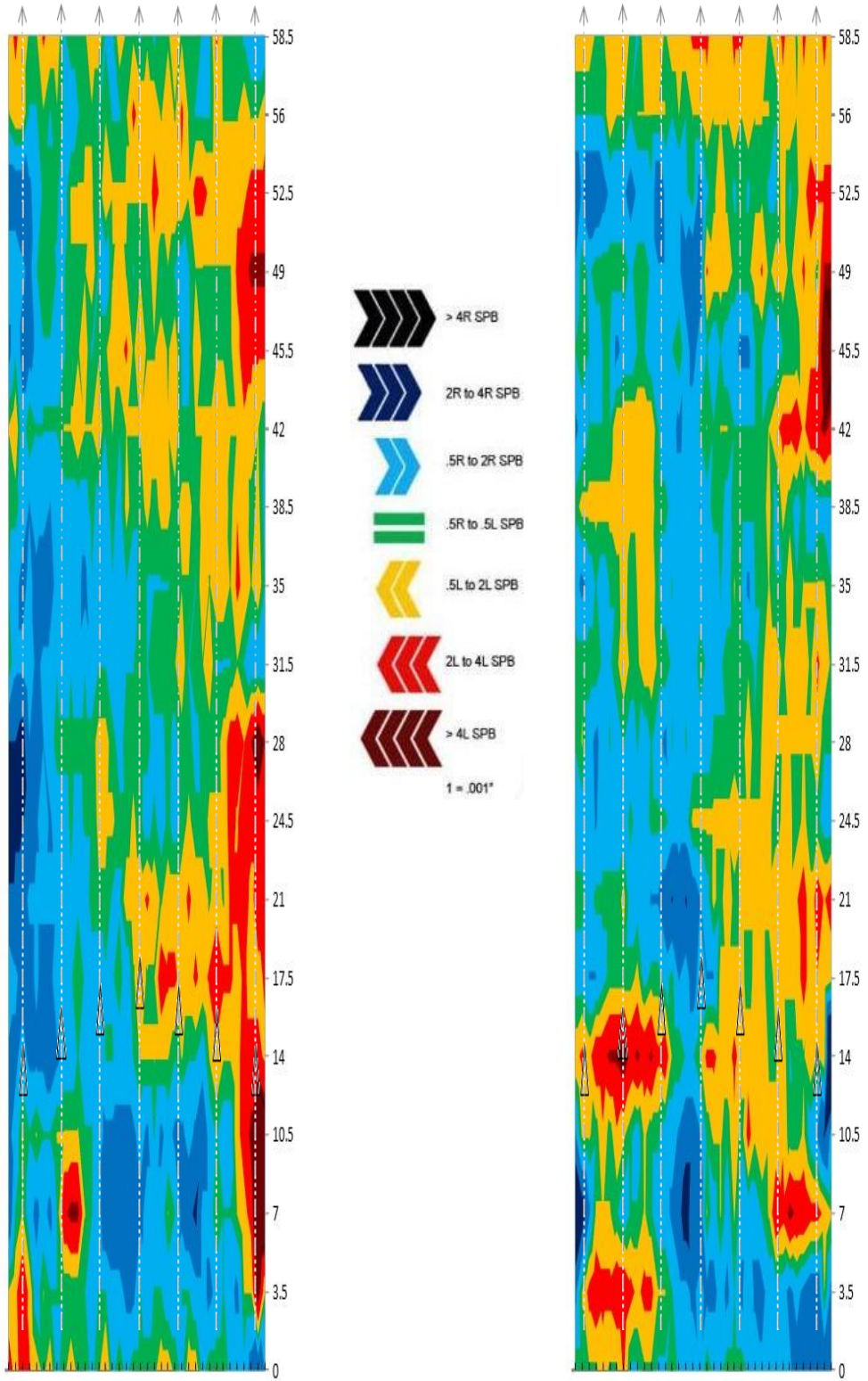
Lane 14



Lane 15

Kegel LaneMap™ Guide

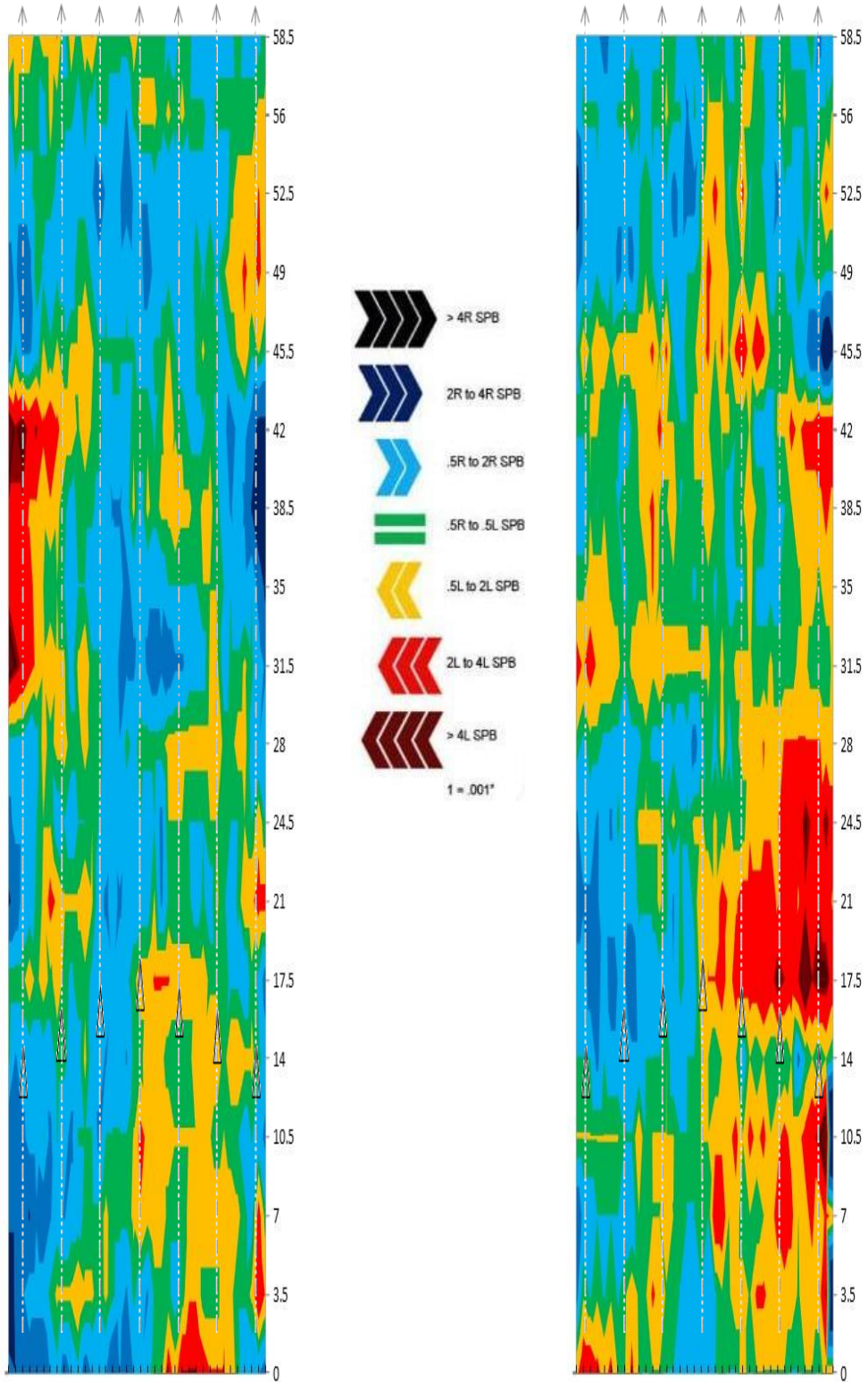
Lane 16



Lane 17

Kegel LaneMap™ Guide

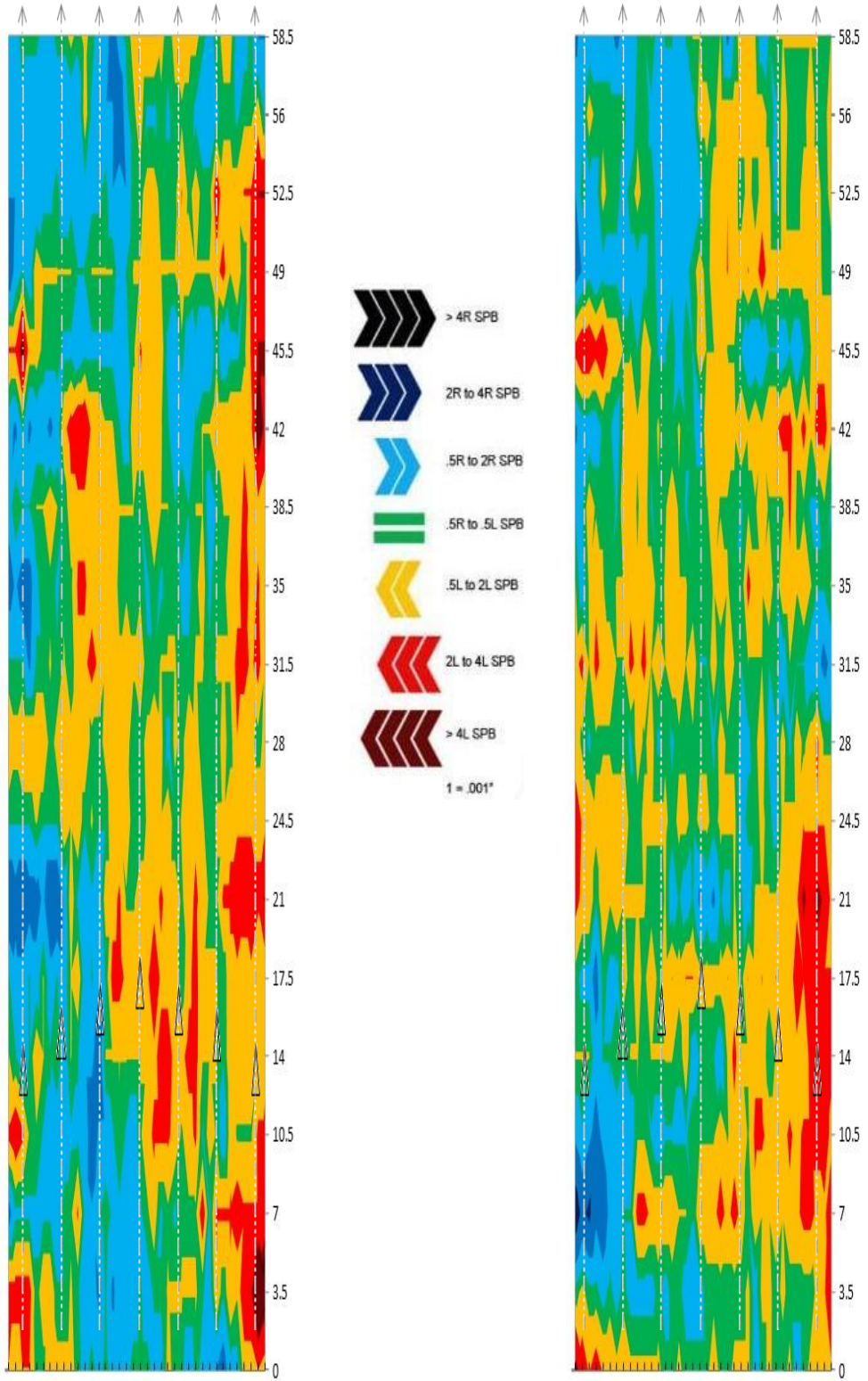
Lane 18



Lane 19

Kegel LaneMap™ Guide

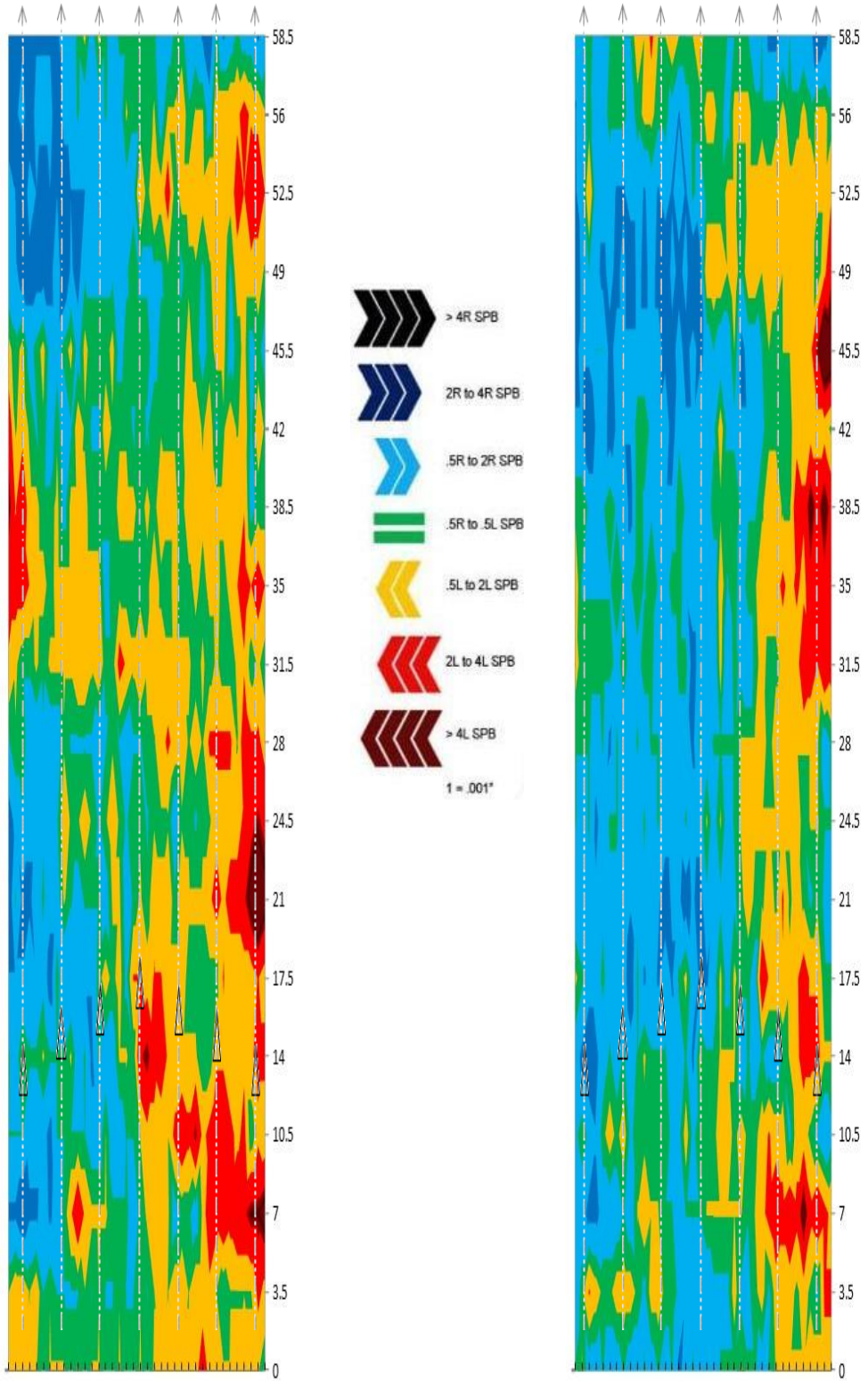
Lane 20



Lane 21

Kegel LaneMap™ Guide

Lane 22

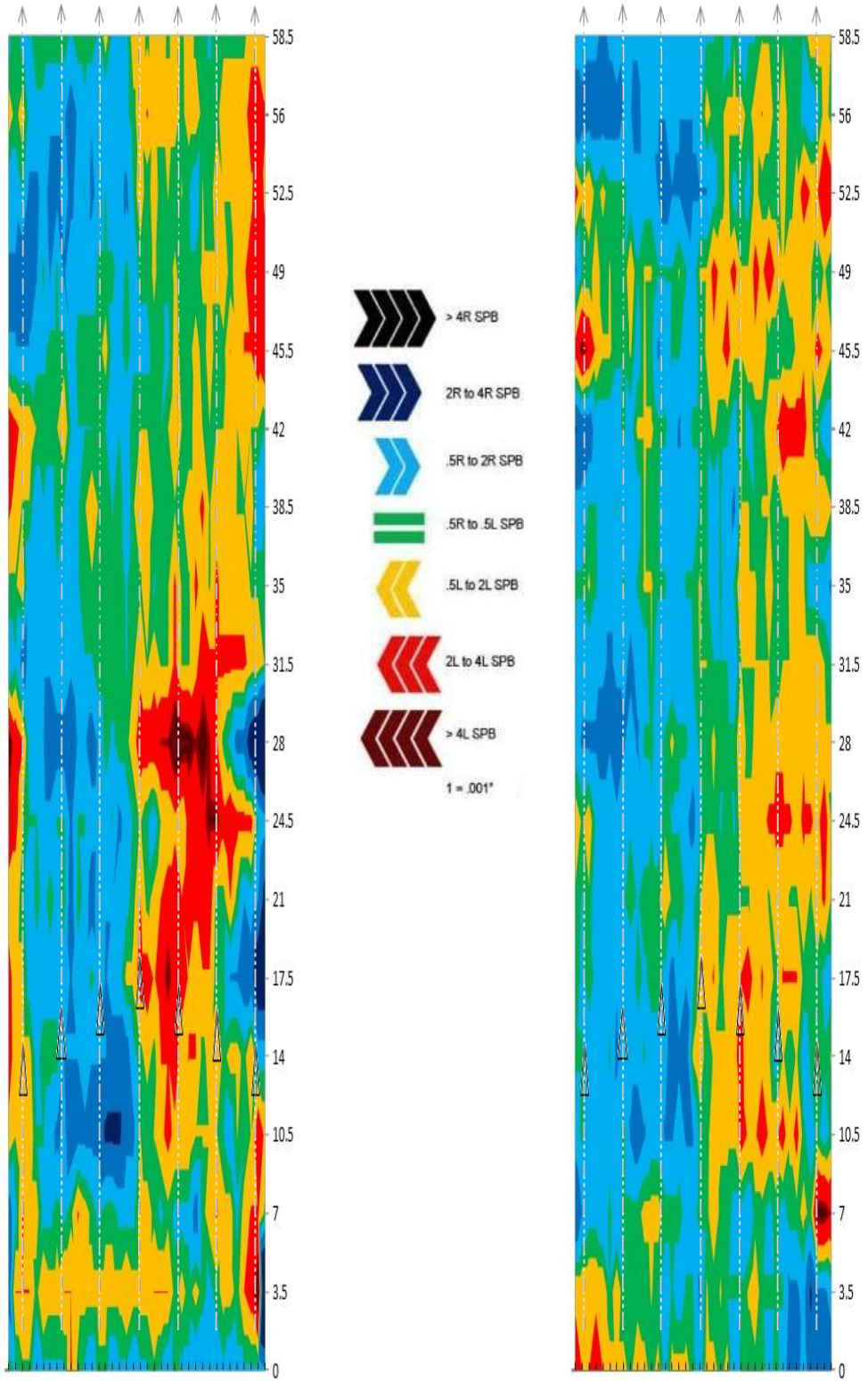




Lane 23

Kegel LaneMap™ Guide

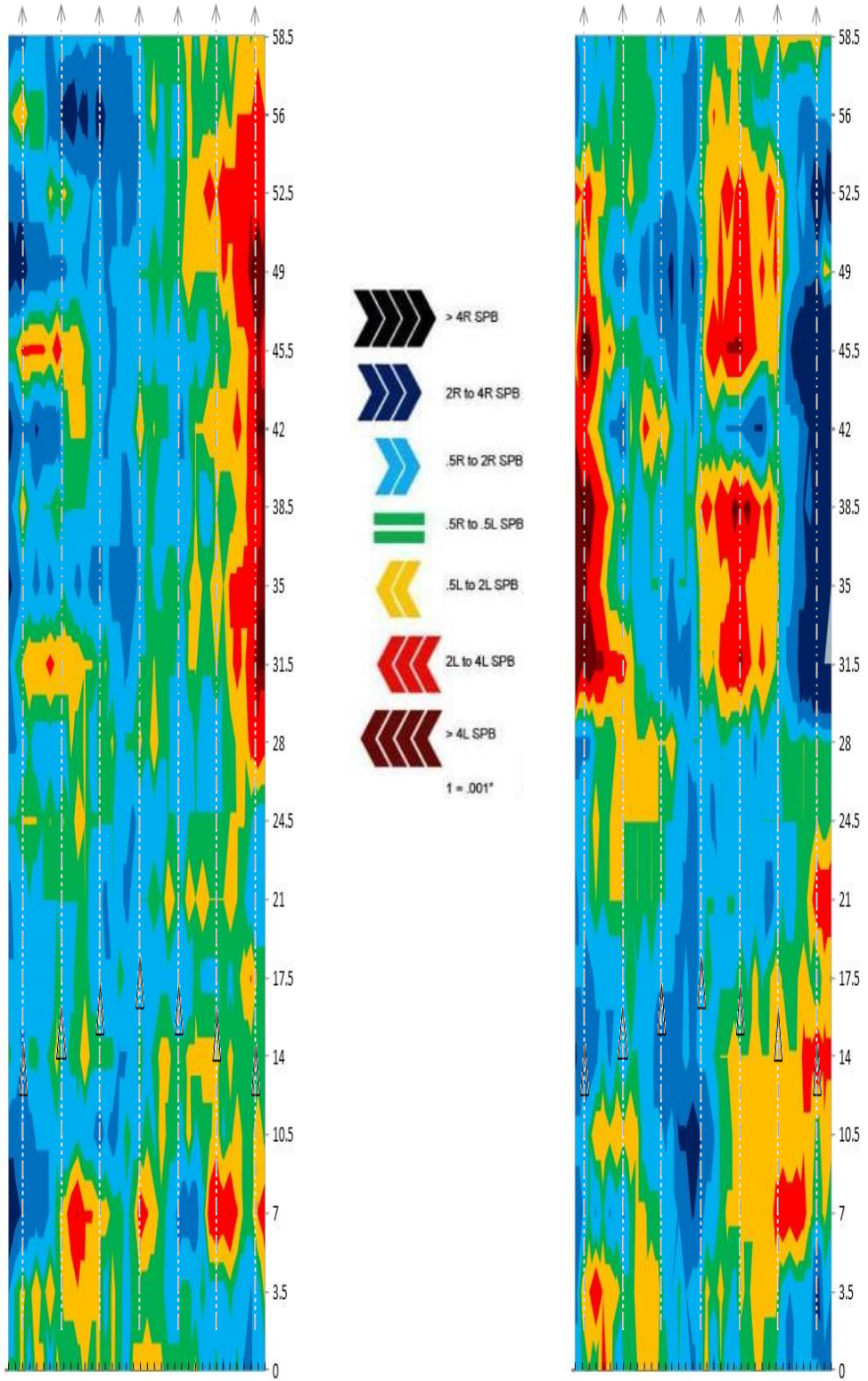
Lane 24



Lane 25

Kegel LaneMap™ Guide

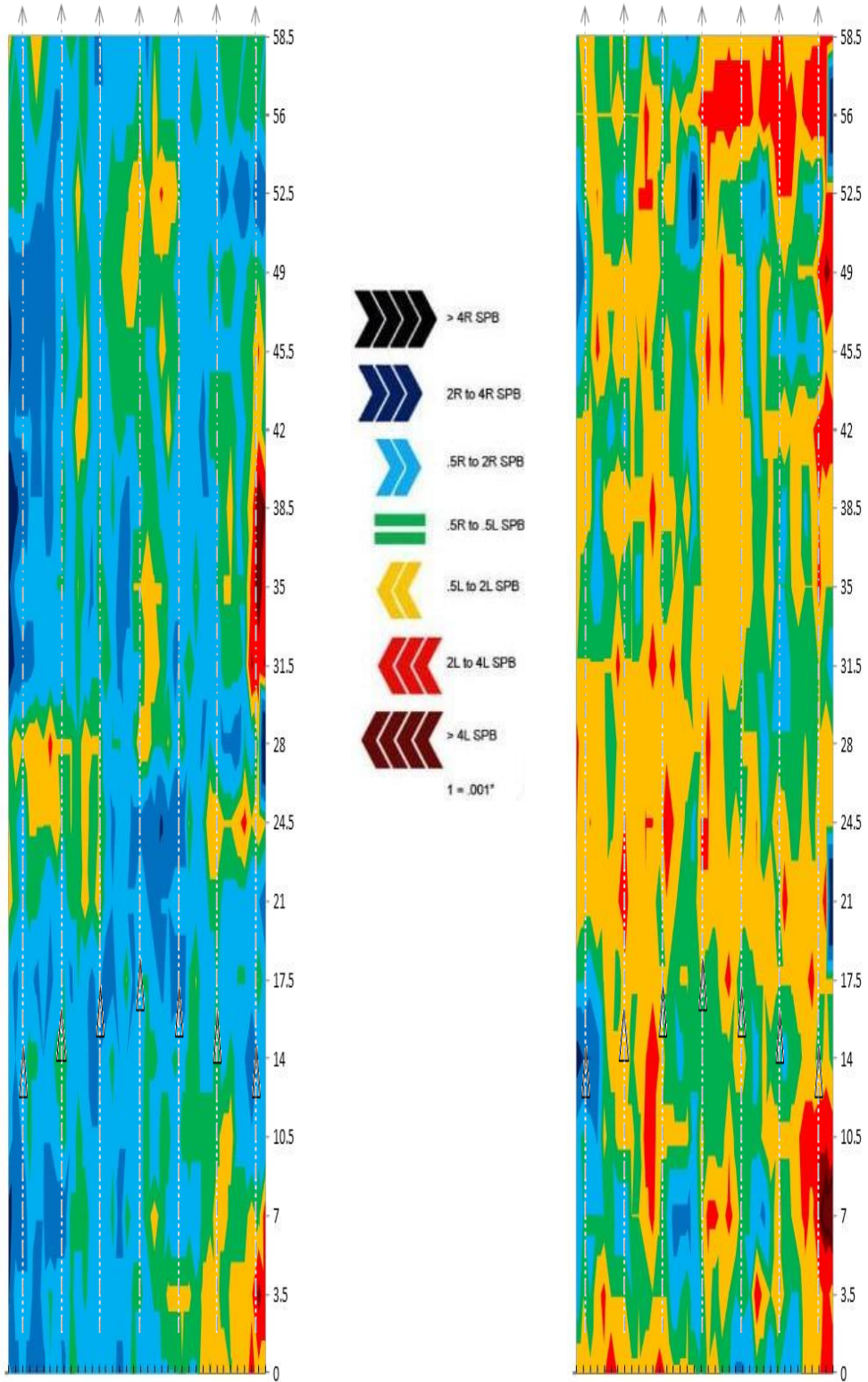
Lane 26



Lane 27

Kegel LaneMap™ Guide

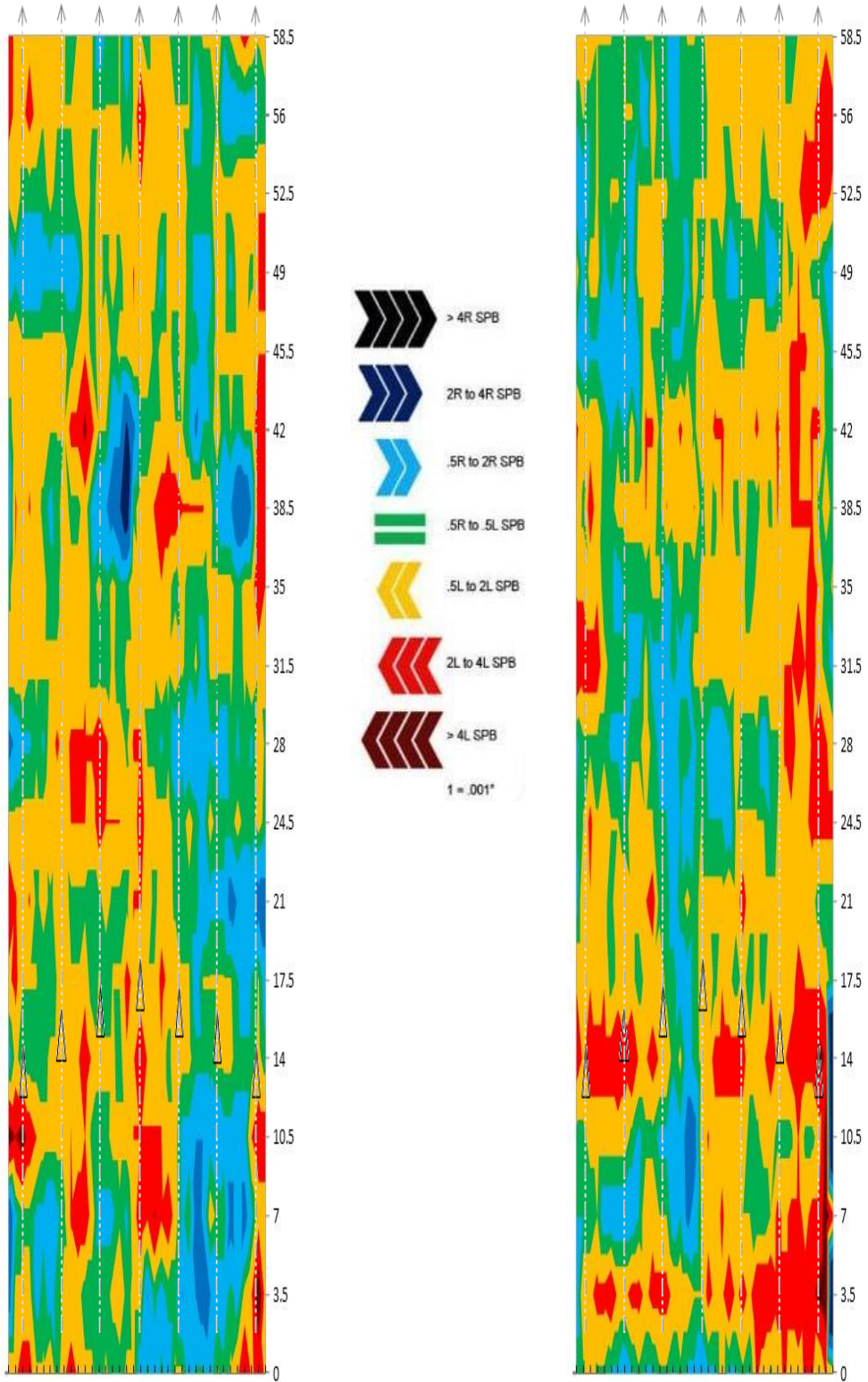
Lane 28



Lane 29

Kegel LaneMap™ Guide

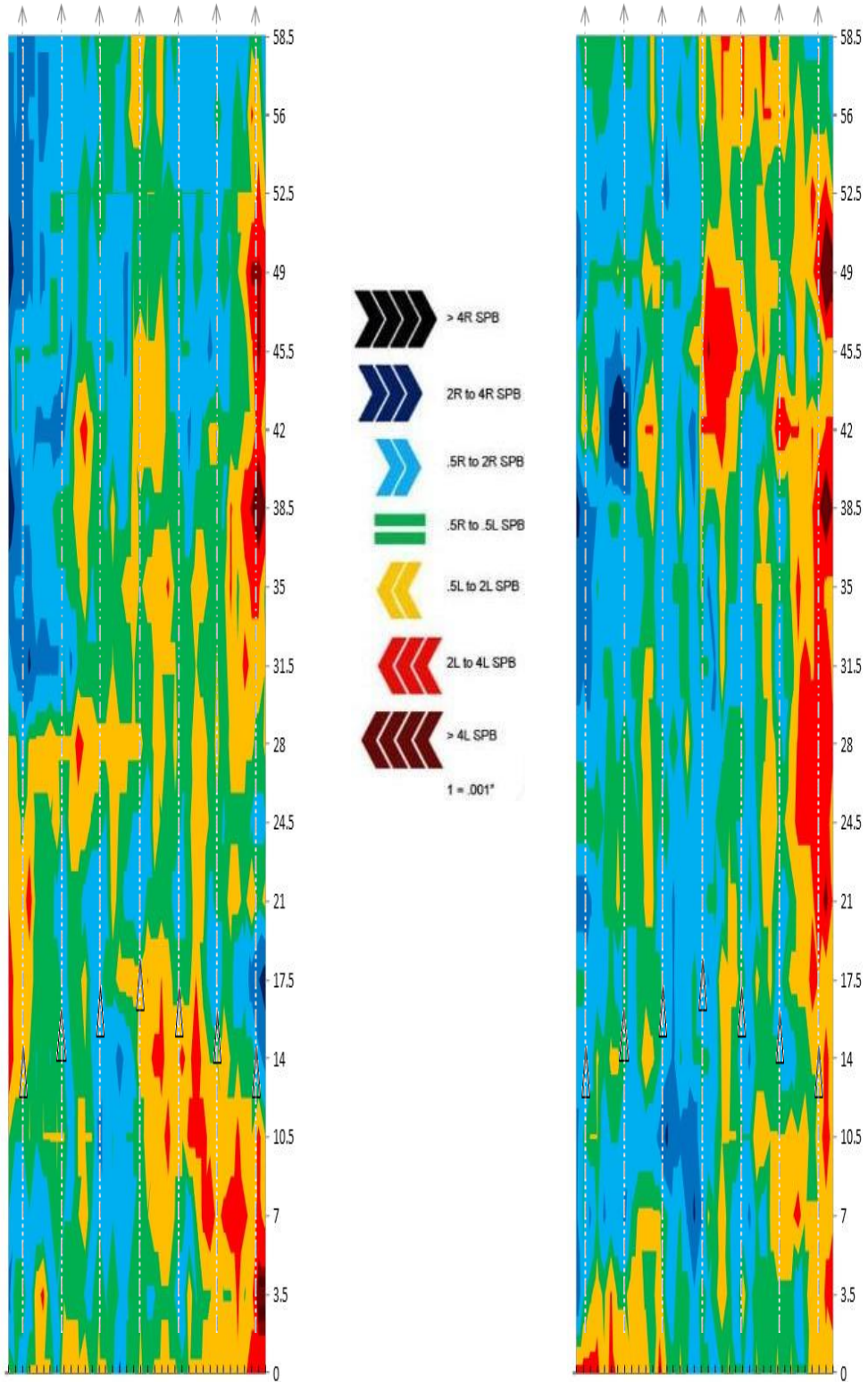
Lane 30



Lane 31

Kegel LaneMap™ Guide

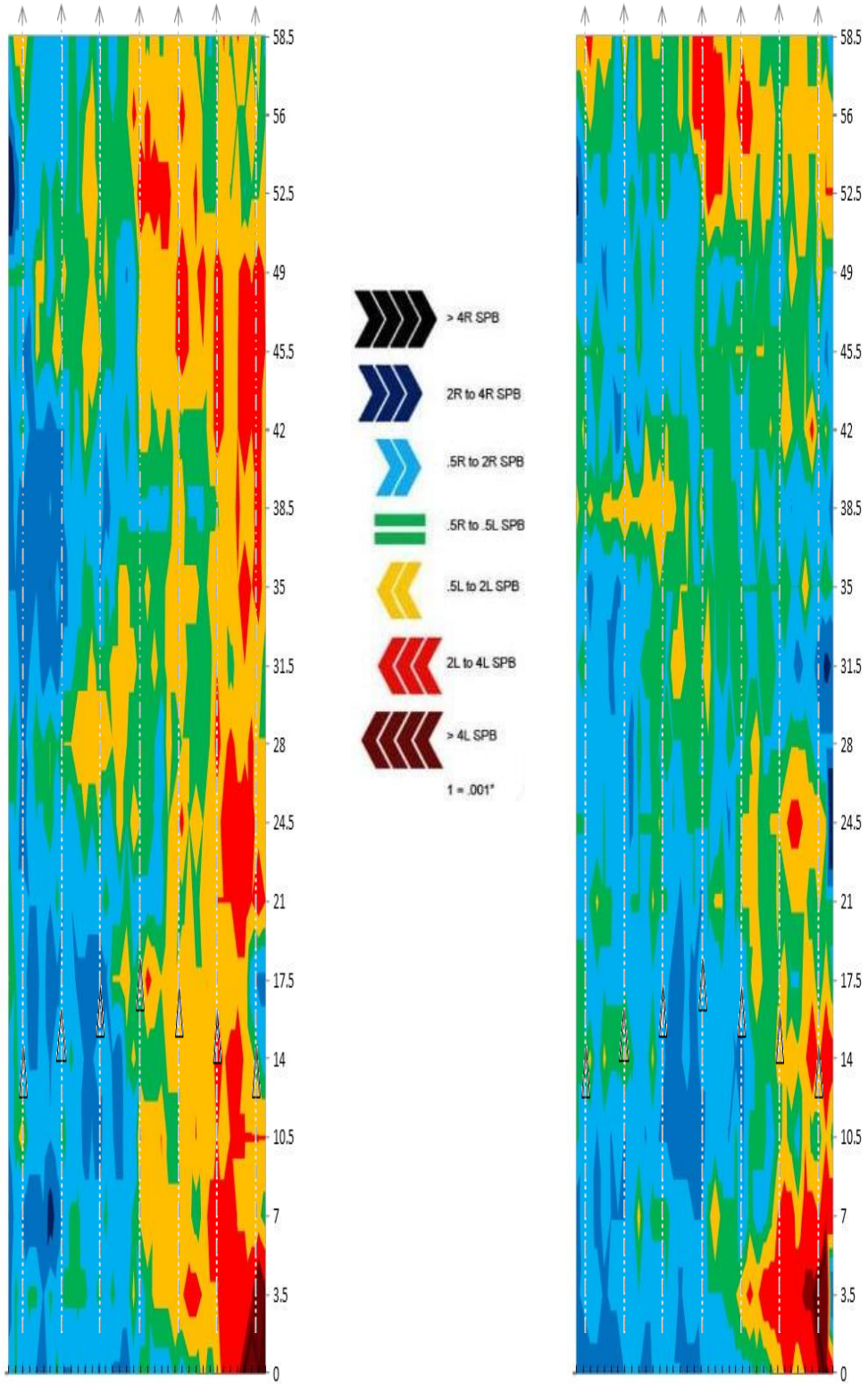
Lane 32



Lane 33

Kegel LaneMap™ Guide

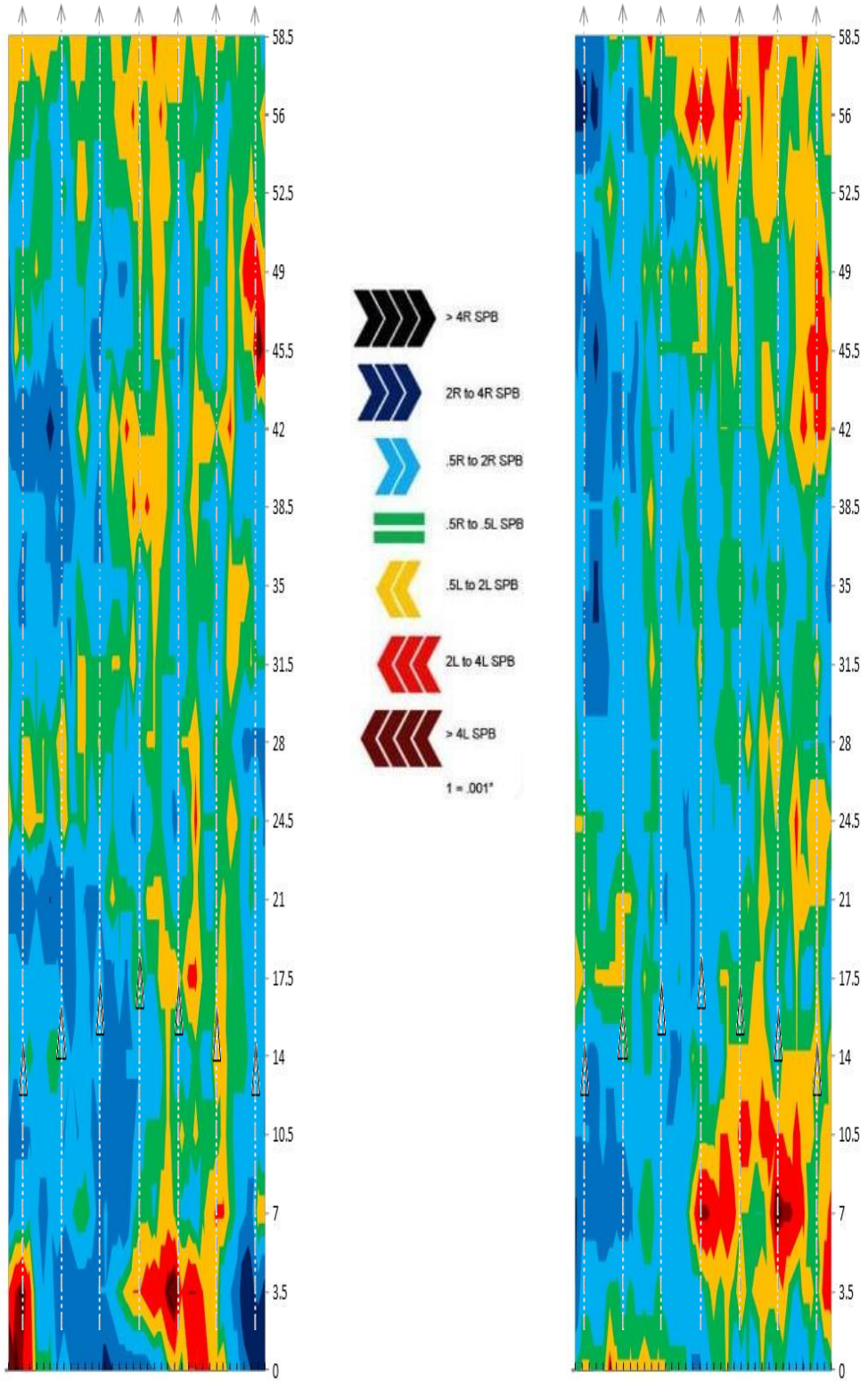
Lane 34



Lane 35

Kegel LaneMap™ Guide

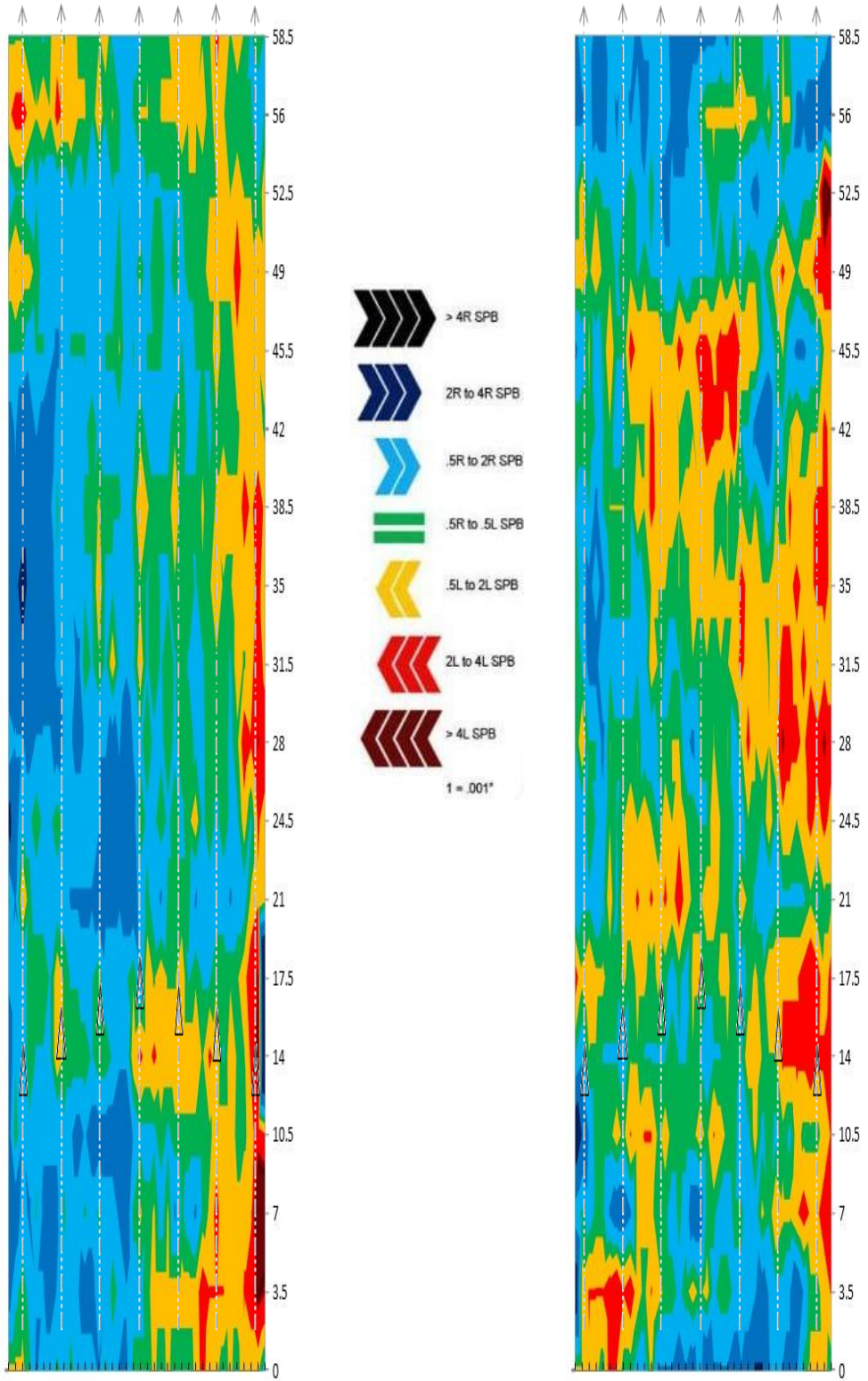
Lane 36



Lane 37

Kegel LaneMap™ Guide

Lane 38

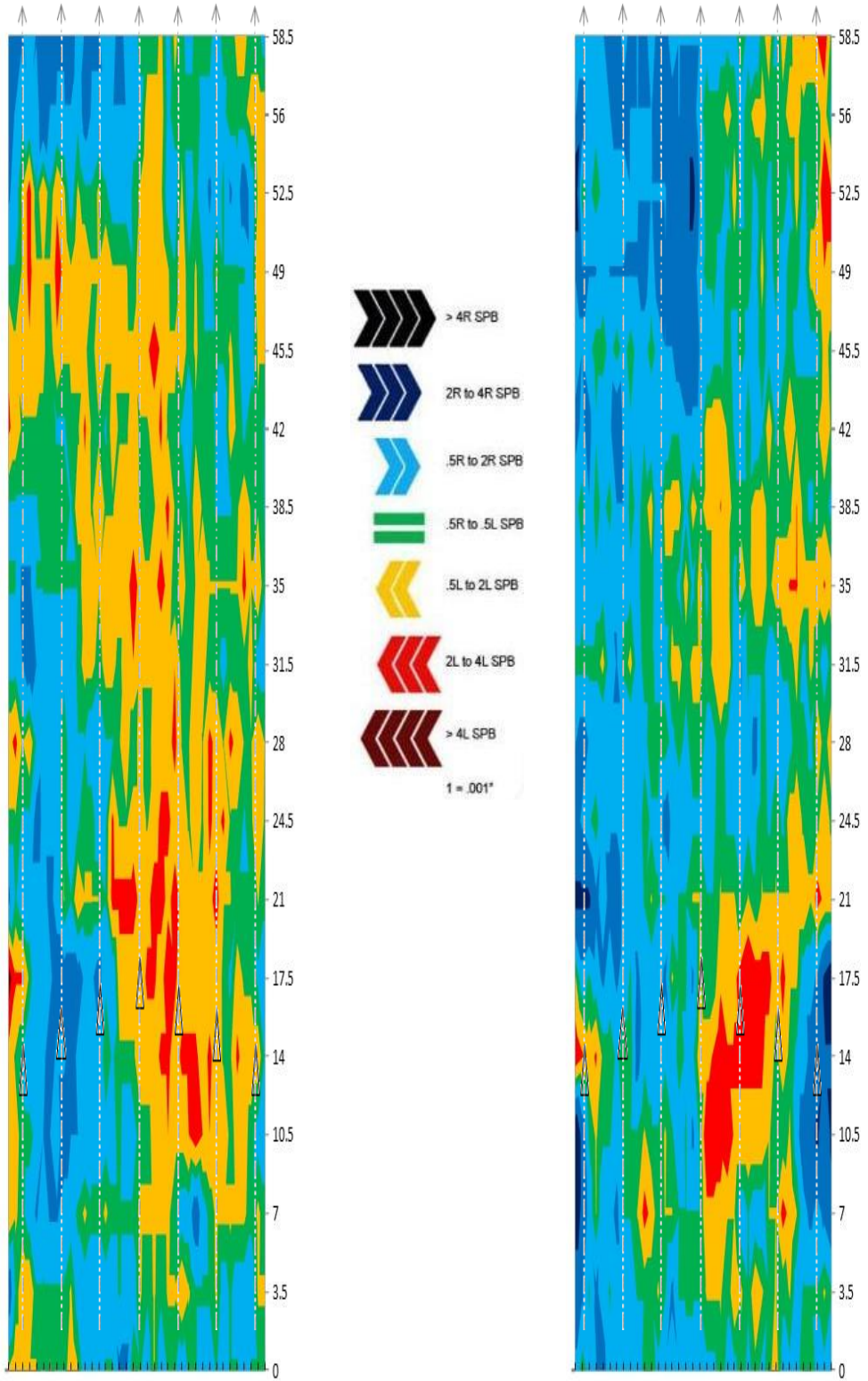




Lane 39

Kegel LaneMap™ Guide

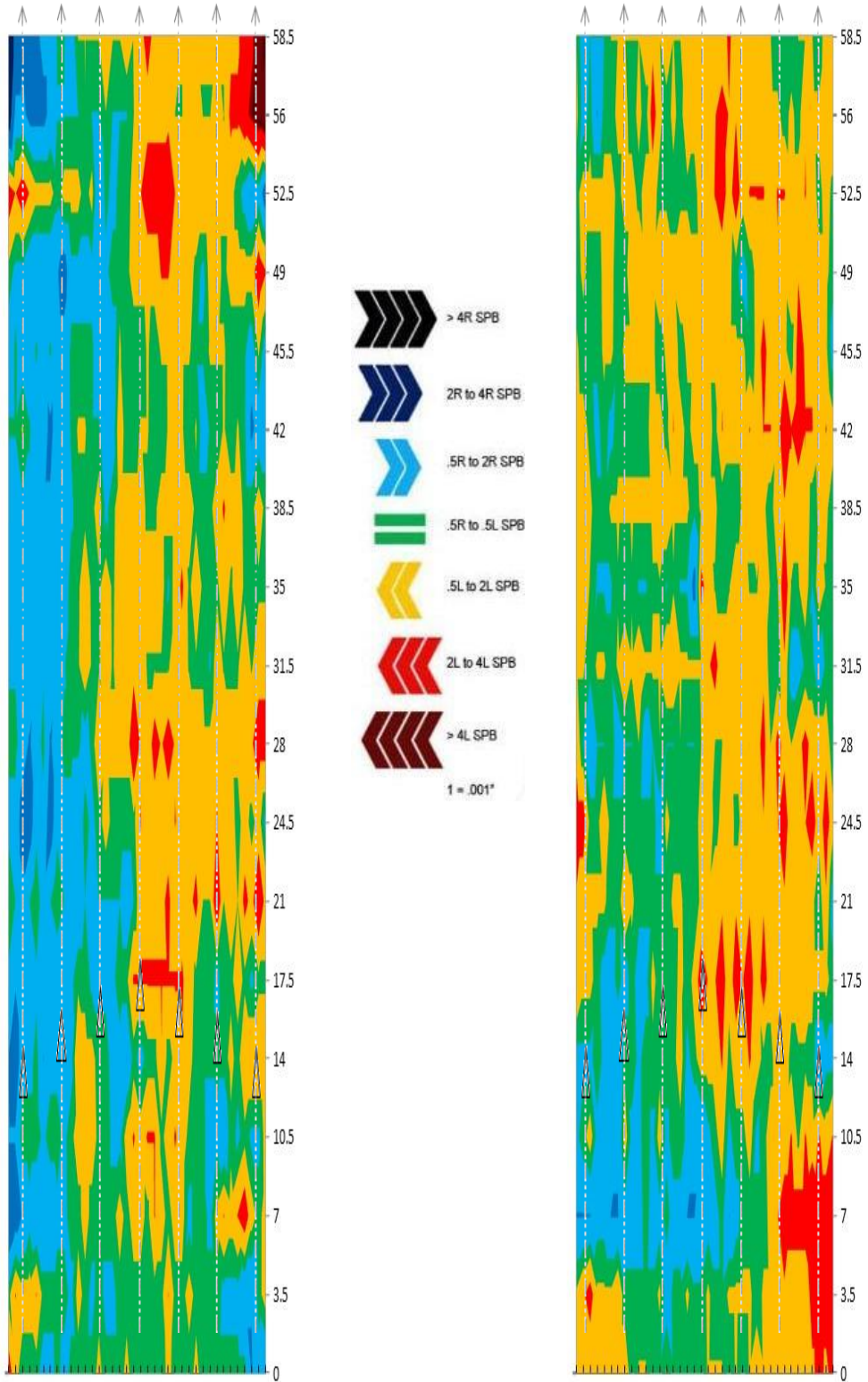
Lane 40



Lane 41

Kegel LaneMap™ Guide

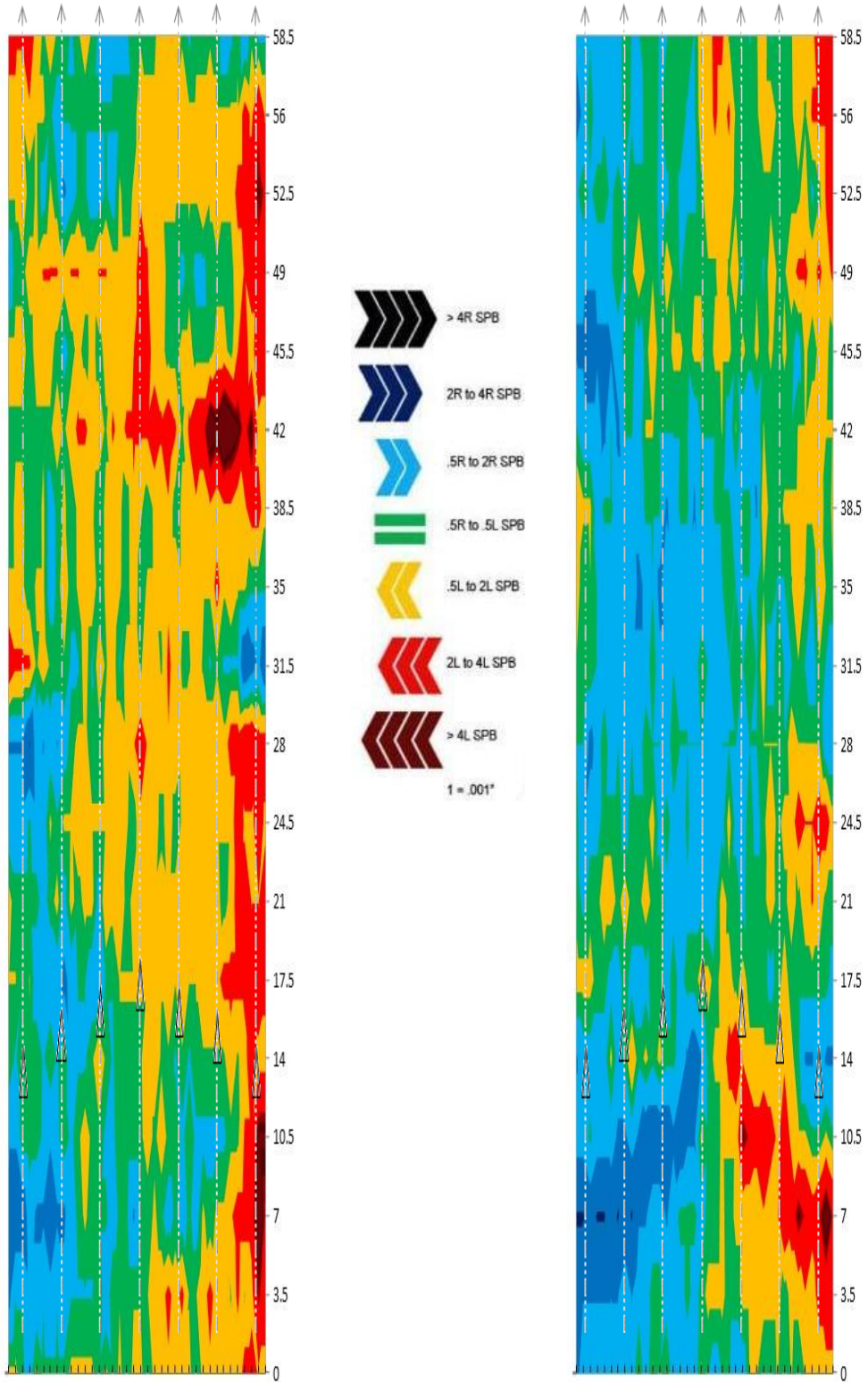
Lane 42



Lane 43

Kegel LaneMap™ Guide

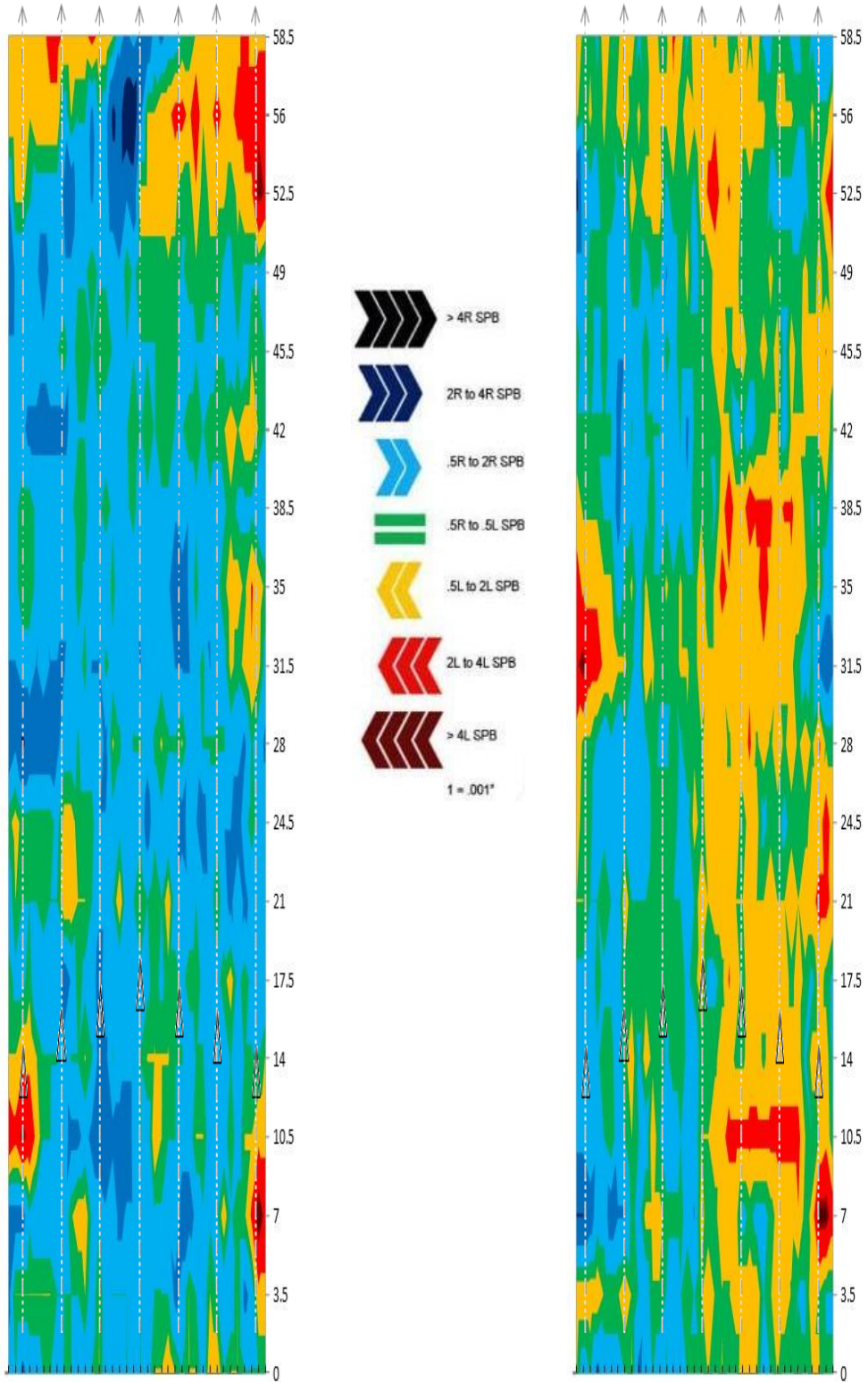
Lane 44



Lane 45

Kegel LaneMap™ Guide

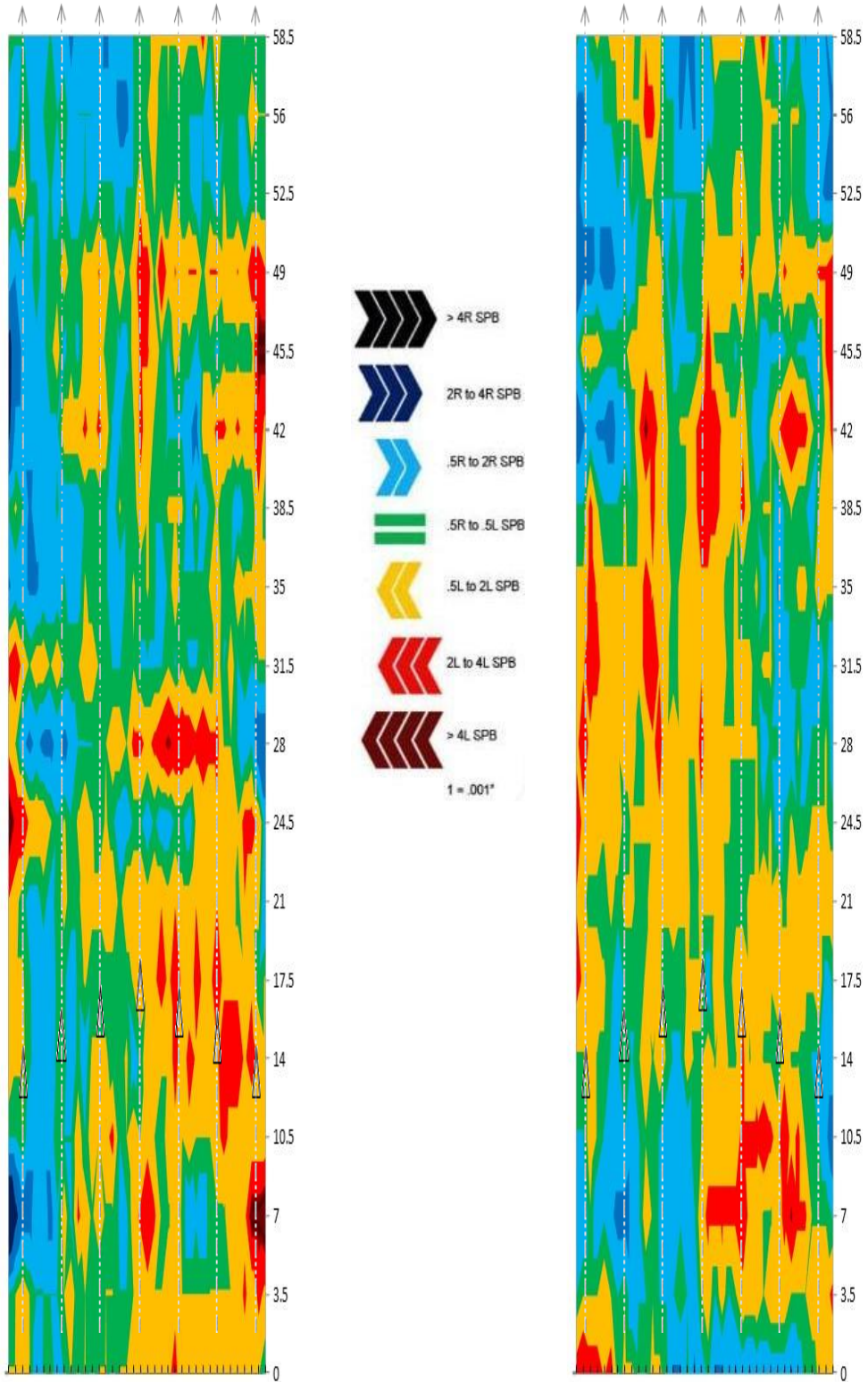
Lane 46



Lane 47

Kegel LaneMap™ Guide

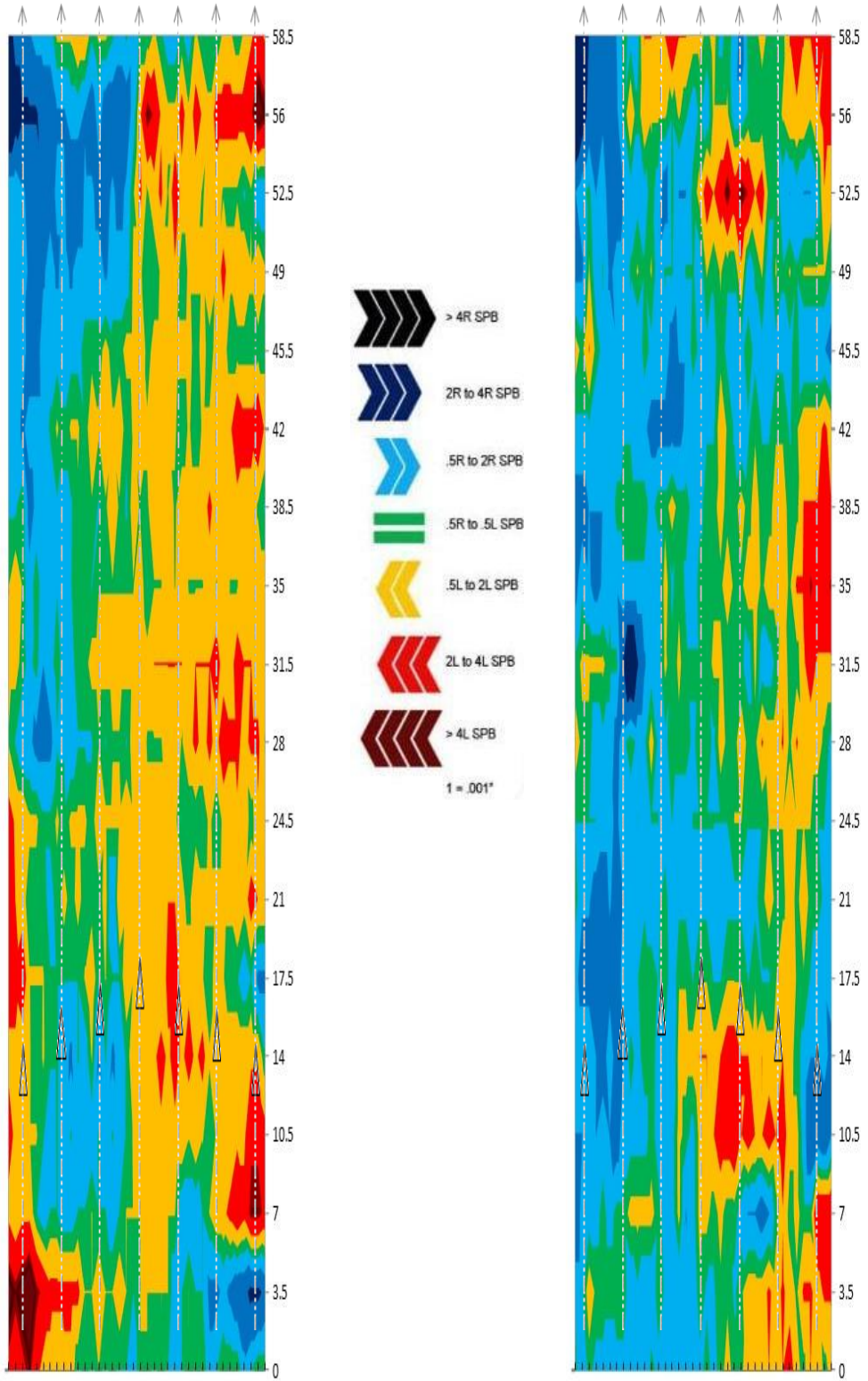
Lane 48



Lane 49

Kegel LaneMap™ Guide

Lane 50



Lane 51

Kegel LaneMap™ Guide

Lane 52

