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- New, deeper large-field surveys:
  - UKIDSS, 2006+: near IR: ZYJHK [ J proper motion]
  - VISTA, 2007+: near IR: ZYJHK
  - Pan-STARRS, ~2007+: optical/red: grizy [ i parallax, PM, variability]
  - mm observations (very young embedded BDs, disks)
- Deeper narrow-field surveys:
  - towards Jupiter-mass young free floating objects
- Increased statistics:
  - disks, spatial distribution, variability
- Cooler objects:
  - water ice clouds
- New Technology: near IR high resolution spectroscopy



![](_page_5_Figure_15.jpeg)